

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198788

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T4FT-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5038 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

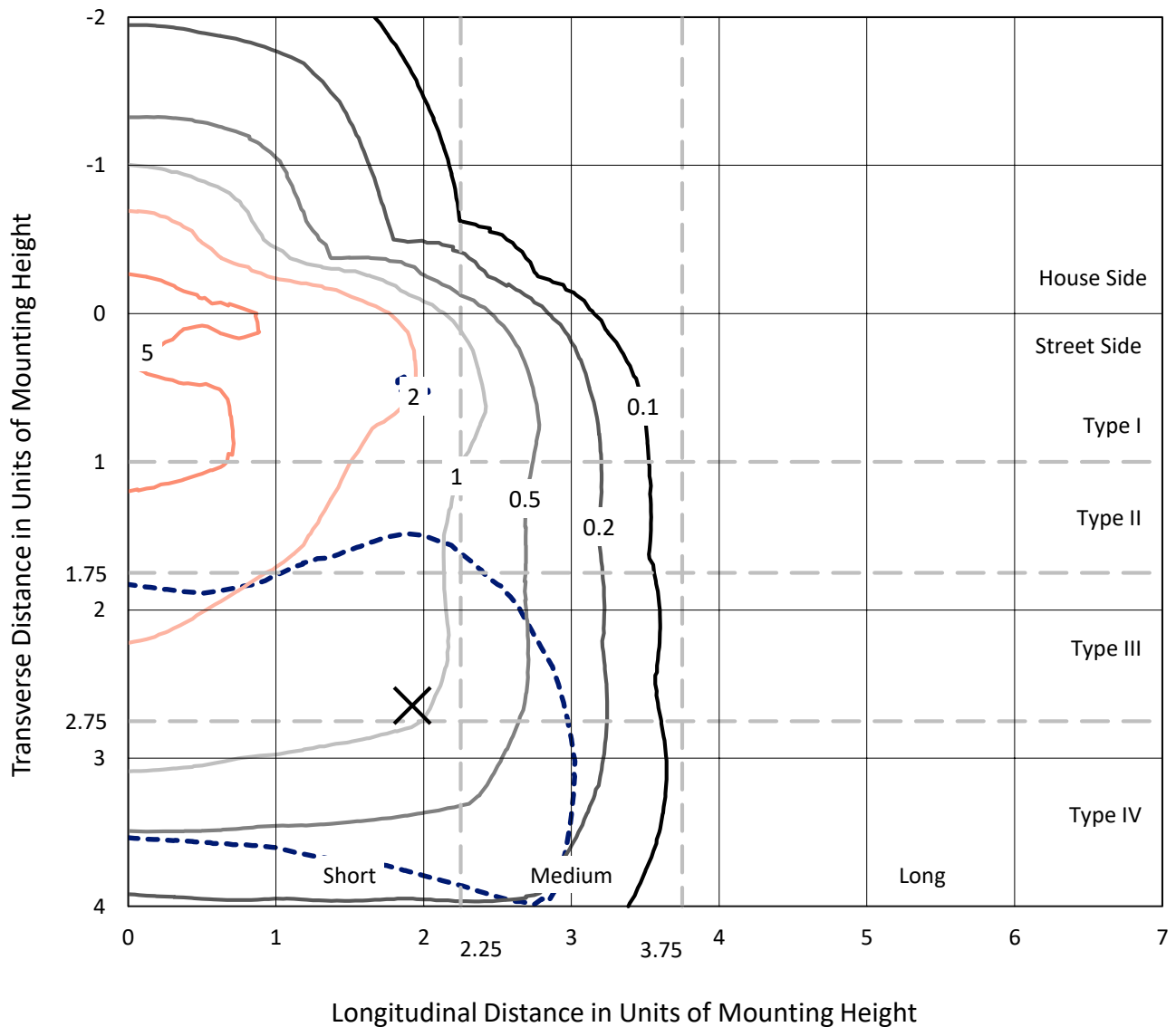
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

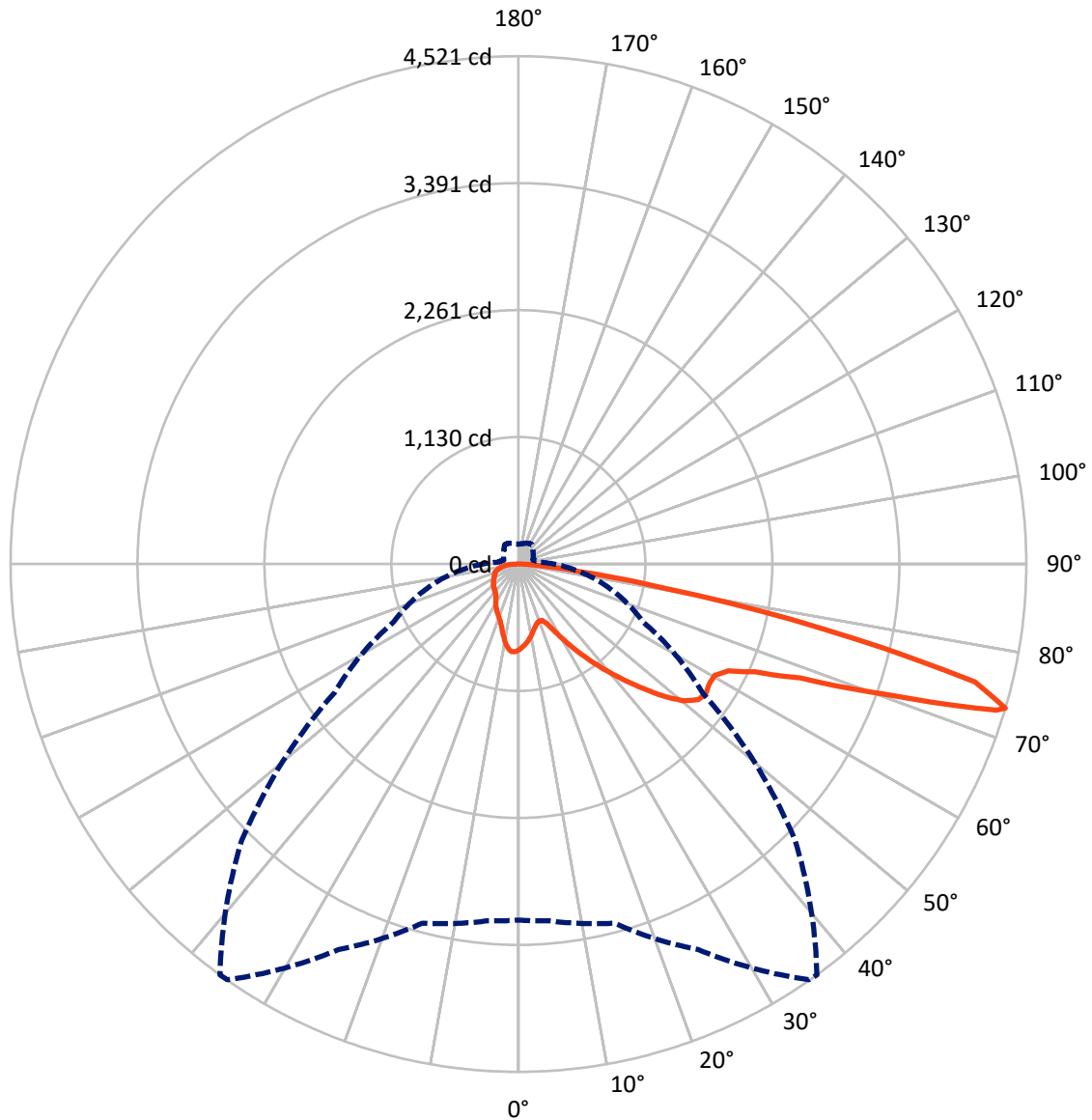


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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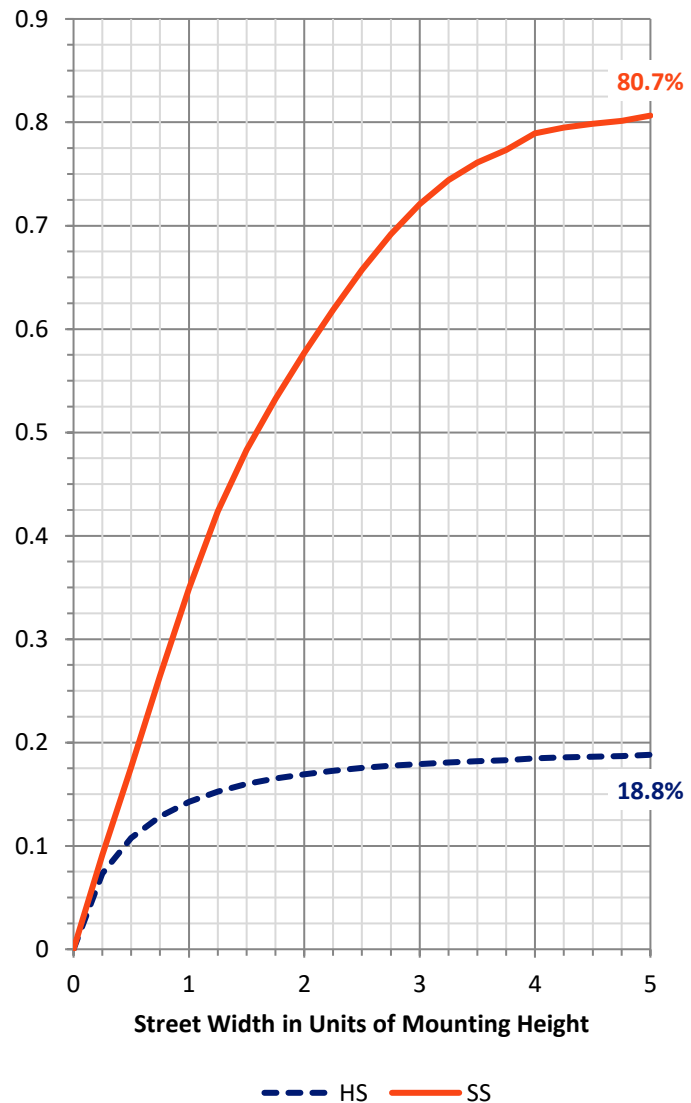
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.5	0.0	971.5
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	4066.6	0.0	4066.6
	% Fixture	80.7	0.0	80.7
Total	Lumens	5038.0	0.0	5038.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.4
10°-20°	174.1	3.5
20°-30°	279.1	5.5
30°-40°	461.7	9.2
40°-50°	714.4	14.2
50°-60°	956.3	19.0
60°-70°	1249.2	24.8
70°-80°	1020.4	20.3
80°-90°	113.6	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5038.0	100.0
0°-180°	5038.0	100.0



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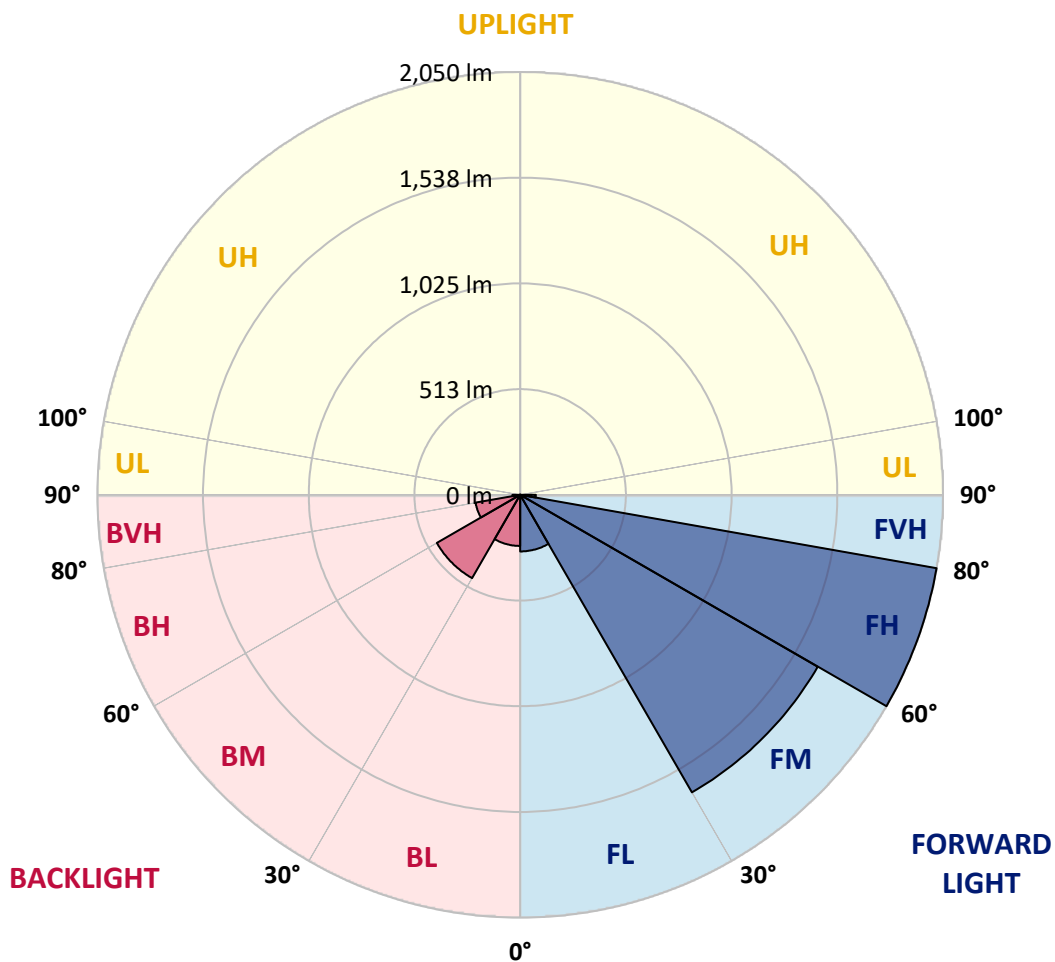
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.5	5.4			
FM (30°-60°)	1665.8	33.1			
FH (60°-80°)	2050.1	40.7			G2/5000
FVH (80°-90°)	76.2	1.5			G1/100
BL (0°-30°)	248.0	4.9	B1/500		
BM (30°-60°)	466.6	9.3	B1/1000		
BH (60°-80°)	219.5	4.4	B1/500		G1/500
BVH (80°-90°)	37.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1
2.5°	734.0	735.9	736.2	738.5	738.5	738.2	739.1	743.0	744.9	749.3	753.2
5°	697.9	700.0	701.0	704.8	709.6	710.0	713.5	720.9	727.9	737.9	746.1
7.5°	657.1	659.7	662.3	670.2	677.3	678.0	684.7	696.5	705.8	718.0	733.0
10°	617.8	618.5	621.0	631.3	640.5	641.5	651.1	664.5	677.0	694.0	711.0
12.5°	585.4	587.4	586.8	594.4	602.4	603.0	615.9	632.8	651.1	670.2	690.5
15°	574.3	574.0	567.2	566.9	570.4	571.0	583.5	603.3	623.9	647.5	673.5
17.5°	582.0	579.4	561.8	550.9	548.6	549.3	558.5	580.3	602.1	629.3	660.3
20°	624.2	614.3	573.0	546.8	539.4	539.4	544.8	562.4	586.5	618.1	657.1
22.5°	724.4	709.0	621.0	574.3	548.3	545.7	541.7	555.1	581.6	619.7	670.2
25°	850.5	843.1	709.0	647.5	594.1	585.7	558.2	563.0	591.6	637.0	706.1
27.5°	967.3	954.5	824.6	754.1	678.6	665.8	607.5	588.0	615.2	669.0	758.0
30°	1035.5	1026.8	943.4	876.2	786.1	769.9	686.3	637.3	657.5	721.8	831.7
32.5°	1109.8	1104.7	1062.4	1001.3	902.7	883.8	788.1	717.7	722.1	792.0	920.2
35°	1181.8	1188.6	1164.5	1119.7	1028.2	1010.6	924.7	822.7	801.9	870.6	1015.1
37.5°	1268.3	1269.8	1254.8	1225.7	1160.0	1145.6	1074.9	934.7	888.6	954.5	1106.6
40°	1440.7	1415.5	1356.5	1333.5	1294.4	1285.5	1204.8	1037.5	969.2	1040.6	1193.0
42.5°	1627.4	1588.0	1495.9	1458.0	1442.4	1434.1	1313.1	1105.9	1044.8	1126.8	1277.9
45°	1777.8	1745.8	1655.5	1608.8	1610.7	1597.3	1407.5	1167.1	1126.8	1213.2	1372.6
47.5°	1926.0	1872.6	1771.4	1764.7	1787.1	1767.2	1497.7	1228.3	1212.2	1307.3	1467.3
50°	1935.6	1886.9	1846.0	1899.8	1938.2	1913.5	1579.6	1308.3	1300.9	1421.3	1589.6
52.5°	1818.8	1811.7	1874.1	1964.8	2028.5	2006.4	1646.5	1390.5	1391.5	1563.7	1738.5
55°	1776.3	1767.2	1842.1	1953.5	2039.7	2026.6	1696.6	1483.4	1492.0	1736.6	1898.2
57.5°	1848.0	1825.6	1840.3	1932.5	2013.4	2005.7	1748.4	1586.4	1602.0	1935.6	2045.8
60°	2070.4	2024.6	1946.5	1963.8	2014.4	2009.9	1822.6	1701.4	1727.6	2143.1	2139.2
62.5°	2403.6	2351.8	2192.7	2115.9	2104.6	2096.0	1945.2	1842.5	1855.6	2292.8	2084.8
65°	2769.1	2713.5	2524.3	2398.5	2332.5	2314.0	2143.1	2012.8	1930.5	2292.5	1872.9
67.5°	3179.5	3120.6	2932.1	2812.1	2740.7	2709.0	2464.1	2150.4	1906.2	2098.6	1498.7
70°	3599.9	3543.8	3457.4	3499.3	3530.7	3482.3	2969.8	2196.2	1731.4	1645.3	1006.4
72.5°	3376.8	3372.3	3437.8	3835.5	4440.1	4449.7	3475.0	2066.9	1337.7	977.9	536.4
73°	3169.6	3188.5	3310.2	3785.8	4517.9	4521.0	3484.9	2000.0	1228.3	842.5	471.2
75°	1642.1	1770.1	2221.4	3069.8	4183.4	4198.4	3072.0	1514.1	732.0	468.0	317.5
77.5°	439.8	434.0	715.8	1495.5	2789.0	2769.1	1941.0	733.0	350.9	293.5	222.8
80°	150.8	152.7	243.6	547.1	1301.8	1348.2	842.5	319.8	230.8	204.6	157.8
82.5°	76.8	79.4	127.4	232.7	544.5	533.0	271.1	188.2	154.6	124.2	88.4
85°	41.0	42.2	70.1	120.7	199.8	202.0	95.3	100.6	98.3	70.4	43.6
87.5°	20.2	20.8	33.7	53.1	74.0	71.4	33.2	43.6	48.4	39.7	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1
2.5°	758.0	758.0	762.2	769.2	774.3	779.1	782.4	787.5	790.3	790.0	789.7
5°	752.9	756.1	764.3	773.0	778.8	782.7	782.7	784.9	784.9	783.9	782.7
7.5°	741.0	746.4	758.6	766.3	767.9	763.7	755.4	749.0	741.0	736.8	735.3
10°	722.1	729.2	744.5	748.1	739.8	725.1	704.8	687.5	672.2	665.1	663.0
12.5°	703.6	712.9	727.2	721.8	701.9	673.2	642.1	618.5	601.2	594.4	592.2
15°	688.2	699.4	710.6	693.7	659.1	619.1	584.8	562.7	549.6	544.5	543.2
17.5°	678.0	691.1	694.9	663.3	615.2	570.4	540.0	525.6	519.9	517.6	517.0
20°	678.6	693.4	684.0	633.8	573.0	527.8	507.7	503.5	503.5	503.5	503.2
22.5°	696.2	709.0	679.5	606.3	532.3	492.0	483.3	486.8	489.5	489.5	489.1
25°	732.7	739.8	682.8	579.7	494.2	460.9	461.2	468.0	470.3	470.3	469.5
27.5°	788.4	782.7	688.5	550.2	456.7	432.8	437.2	443.3	445.0	444.0	443.7
30°	858.2	835.1	693.4	515.7	421.6	406.5	410.4	413.9	412.7	410.4	410.0
32.5°	936.3	888.6	690.5	476.9	390.6	379.3	381.6	383.5	381.6	376.1	376.1
35°	1013.7	936.9	674.7	434.7	365.9	353.0	352.7	358.9	358.5	352.1	352.4
37.5°	1081.6	975.0	644.4	396.0	344.7	333.9	335.1	339.0	340.9	332.3	331.3
40°	1140.8	1001.3	601.5	362.9	327.8	328.5	324.9	318.9	316.6	312.7	312.1
42.5°	1196.5	1019.5	556.0	335.4	319.2	326.5	314.7	300.2	294.2	297.7	299.9
45°	1251.3	1040.0	512.2	312.7	308.2	320.7	304.4	288.4	281.4	282.9	285.2
47.5°	1318.2	1068.5	459.3	288.4	291.6	310.2	298.0	280.7	270.2	263.7	261.9
50°	1406.1	1109.8	390.9	262.2	274.0	298.7	292.6	269.5	258.0	245.2	242.0
52.5°	1516.3	1148.9	321.7	241.0	259.6	288.8	283.6	259.9	245.8	230.5	227.9
55°	1626.1	1154.3	262.2	222.8	243.3	275.3	272.7	252.3	232.4	219.9	217.4
57.5°	1702.9	1102.7	222.2	207.5	227.6	258.6	262.8	243.0	221.2	211.5	210.0
60°	1704.2	979.5	197.8	197.2	215.7	244.3	252.6	232.1	214.1	207.8	206.4
62.5°	1568.8	789.4	182.1	189.5	207.1	232.4	244.9	226.0	212.6	210.0	208.7
65°	1315.0	583.2	169.6	182.5	199.1	222.5	238.4	224.0	212.0	210.9	210.0
67.5°	970.9	399.8	159.1	173.5	190.2	212.3	232.4	221.2	208.1	212.0	210.6
70°	610.7	267.0	149.1	163.3	178.3	200.4	224.4	216.0	203.3	201.0	196.8
72.5°	344.7	193.0	137.3	150.2	163.0	184.7	213.5	207.5	192.4	183.4	179.2
73°	311.5	182.8	134.4	146.9	159.4	181.5	210.9	204.9	189.1	179.2	175.4
75°	227.9	149.5	121.3	133.8	144.6	166.7	198.8	192.1	175.1	163.3	160.7
77.5°	165.2	115.3	104.3	115.6	125.2	146.3	180.6	172.9	156.2	149.8	147.2
80°	119.1	87.4	86.4	97.3	105.7	127.1	161.0	153.0	137.0	155.9	151.7
82.5°	71.1	56.1	63.4	75.5	84.2	106.6	139.8	130.6	115.3	116.5	99.2
85°	34.0	31.7	39.4	49.6	55.6	72.9	116.5	109.1	92.2	75.5	74.0
87.5°	15.0	14.4	18.9	22.1	29.8	43.9	79.7	70.8	66.9	40.0	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)