

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: P271276

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271276
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-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 5808.4 lumens
Efficiency: N/A
Efficacy: 88.0 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): 66
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

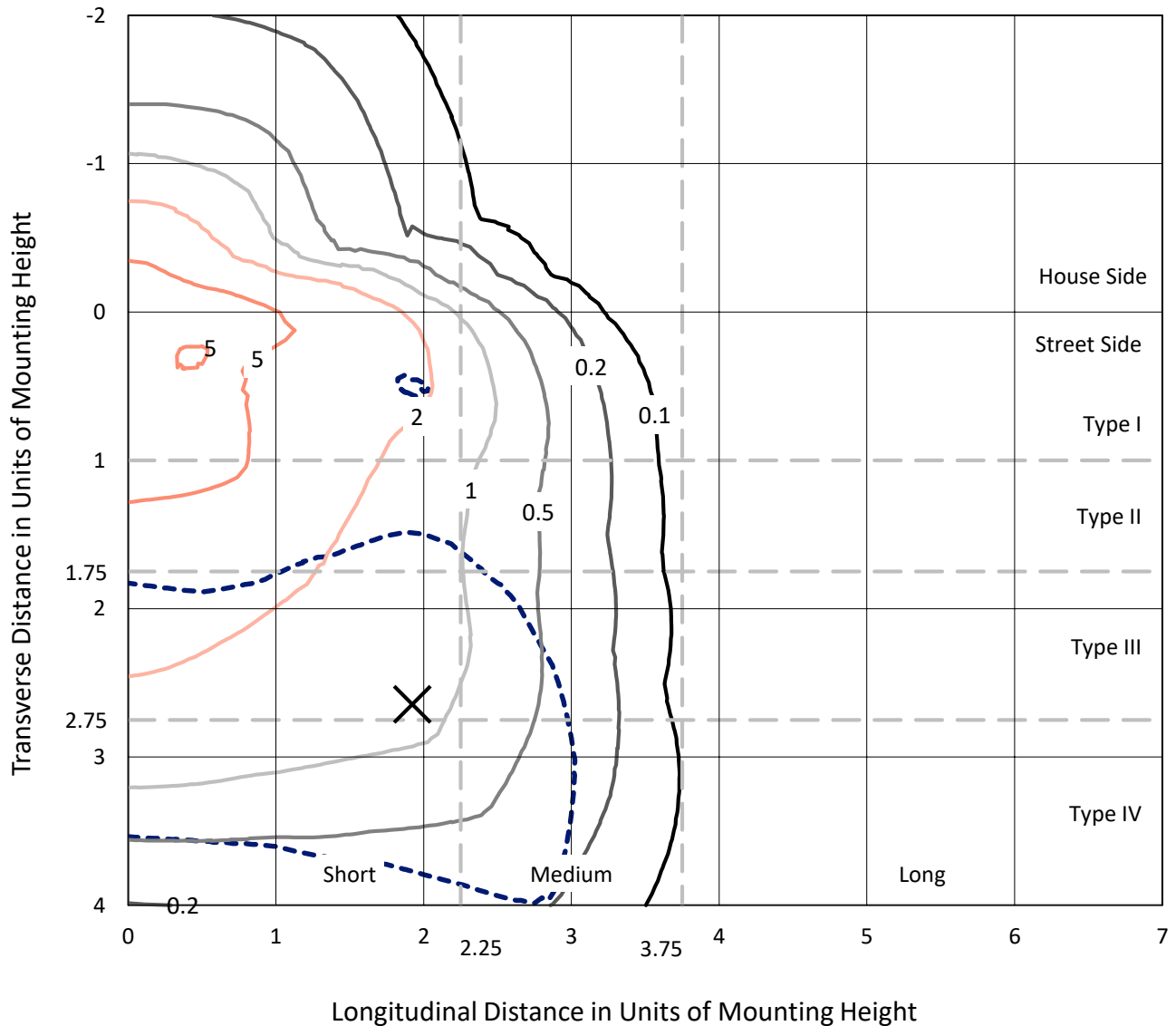


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

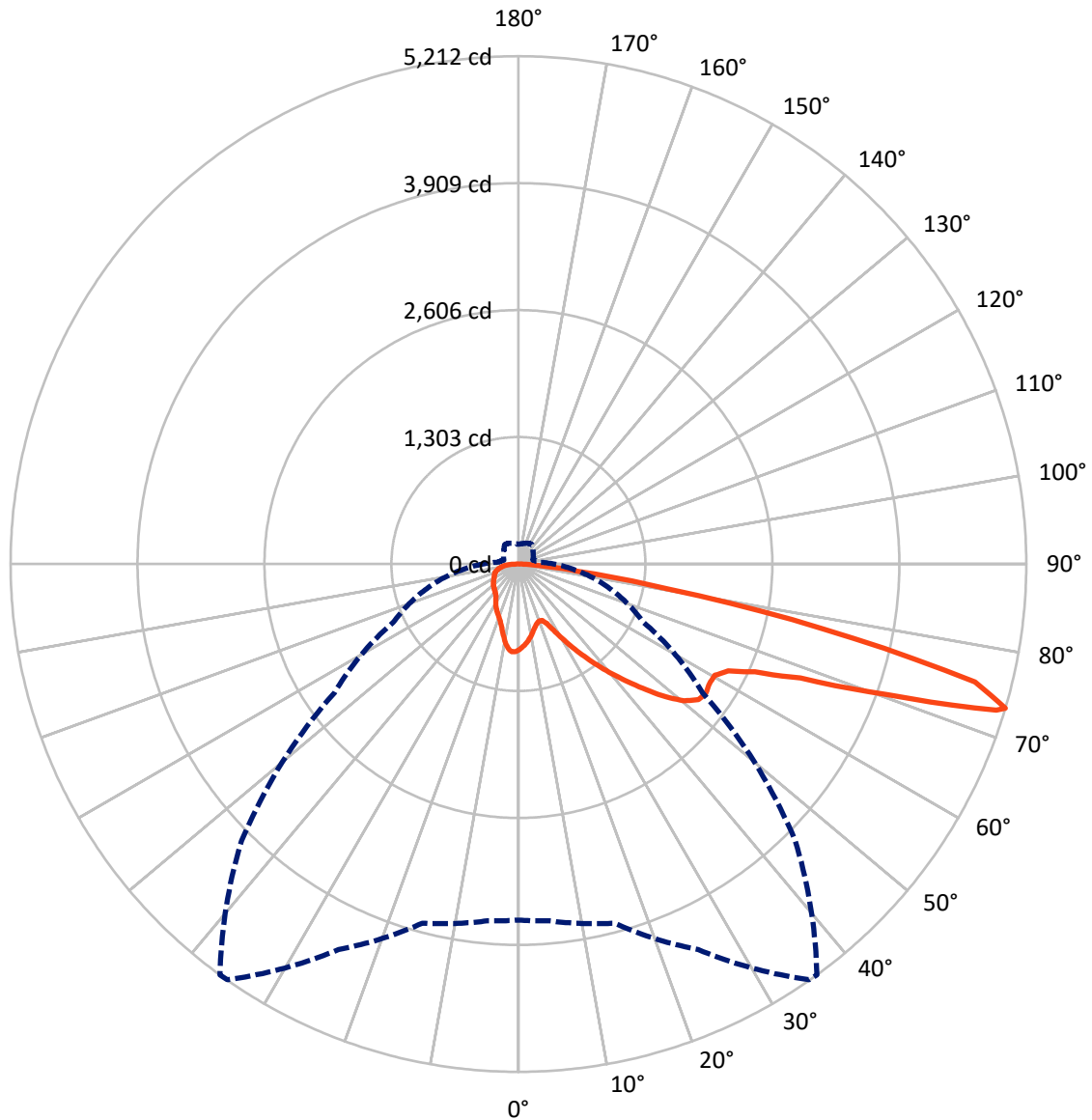


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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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	1120.0	0.0	1120.0
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	4688.4	0.0	4688.4
	% Fixture	80.7	0.0	80.7
Total	Lumens	5808.4	0.0	5808.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.4
10°-20°	200.7	3.5
20°-30°	321.8	5.5
30°-40°	532.2	9.2
40°-50°	823.6	14.2
50°-60°	1102.5	19.0
60°-70°	1440.3	24.8
70°-80°	1176.4	20.3
80°-90°	130.9	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°	5808.4	100.0
0°-180°	5808.4	100.0



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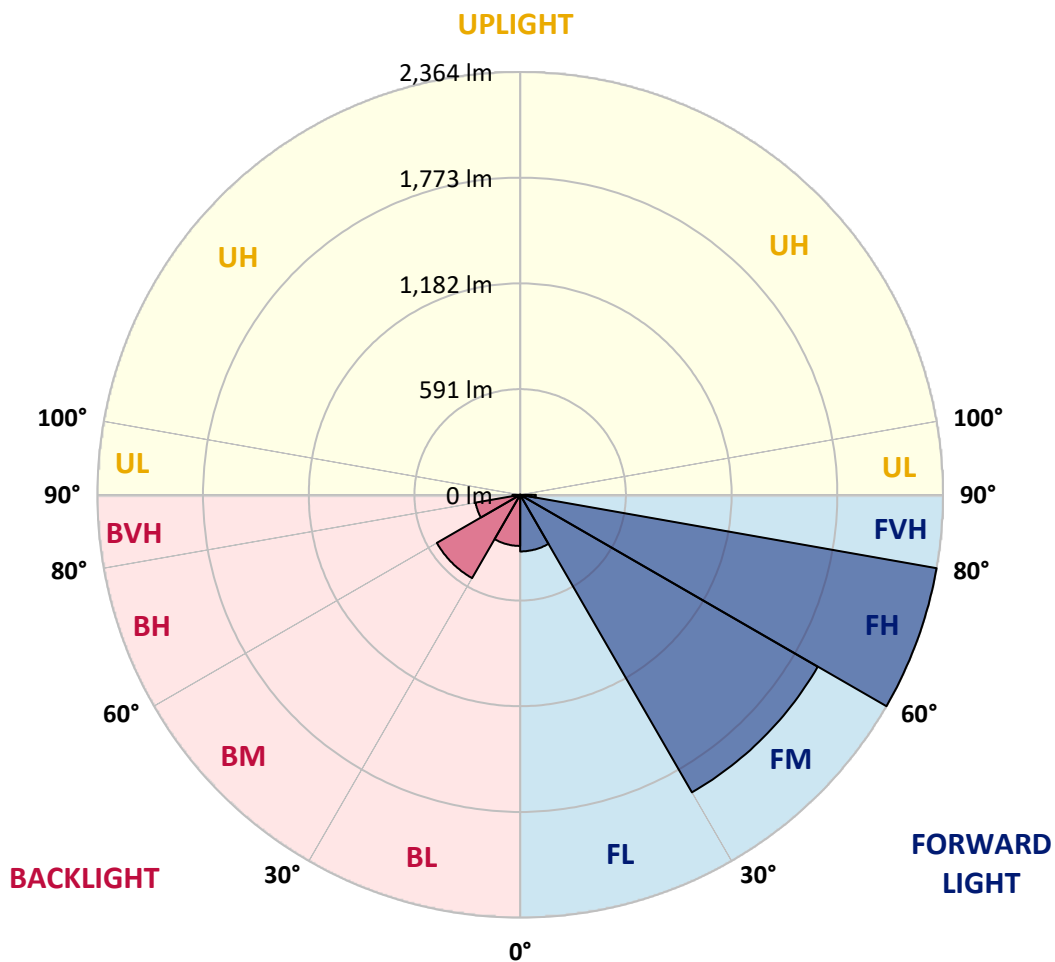
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.5	5.4			
FM (30°-60°)	1920.4	33.1			
FH (60°-80°)	2363.6	40.7			G2/5000
FVH (80°-90°)	87.8	1.5			G1/100
BL (0°-30°)	285.9	4.9	B1/500		
BM (30°-60°)	537.9	9.3	B1/1000		
BH (60°-80°)	253.1	4.4	B1/500		G1/500
BVH (80°-90°)	43.1	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°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8
2.5°	846.3	848.4	848.8	851.5	851.5	851.1	852.1	856.5	858.8	863.9	868.3
5°	804.5	807.0	808.2	812.6	818.1	818.5	822.6	831.1	839.1	850.7	860.2
7.5°	757.6	760.7	763.6	772.8	780.8	781.6	789.4	803.1	813.8	827.8	845.1
10°	712.3	713.0	715.9	727.7	738.4	739.6	750.7	766.2	780.5	800.1	819.7
12.5°	674.9	677.2	676.5	685.2	694.5	695.3	710.0	729.7	750.7	772.8	796.1
15°	662.1	661.7	654.0	653.5	657.6	658.4	672.8	695.6	719.3	746.6	776.5
17.5°	670.9	668.0	647.7	635.1	632.5	633.2	643.9	669.1	694.2	725.6	761.4
20°	719.6	708.3	660.7	630.3	621.8	621.8	628.2	648.3	676.1	712.6	757.6
22.5°	835.2	817.5	715.9	662.1	632.1	629.3	624.4	640.0	670.6	714.5	772.8
25°	980.6	972.1	817.5	746.6	685.0	675.3	643.6	649.1	682.1	734.5	814.1
27.5°	1115.2	1100.6	950.6	869.5	782.3	767.6	700.5	678.0	709.3	771.4	874.0
30°	1193.8	1183.8	1087.6	1010.1	906.4	887.5	791.2	734.8	758.0	832.2	958.9
32.5°	1279.5	1273.5	1224.8	1154.4	1040.6	1018.9	908.5	827.3	832.5	912.9	1061.0
35°	1362.5	1370.3	1342.5	1291.0	1185.4	1165.1	1066.2	948.4	924.4	1003.8	1170.2
37.5°	1462.1	1464.0	1446.7	1413.0	1337.4	1320.8	1239.2	1077.5	1024.4	1100.6	1275.9
40°	1661.1	1632.0	1563.9	1537.4	1492.4	1482.2	1389.0	1196.1	1117.5	1199.7	1375.5
42.5°	1876.2	1830.8	1724.6	1681.0	1662.9	1653.3	1513.9	1275.1	1204.5	1299.0	1473.2
45°	2049.8	2012.8	1908.7	1854.8	1857.1	1841.5	1622.7	1345.5	1299.0	1398.8	1582.5
47.5°	2220.5	2158.9	2042.2	2034.5	2060.4	2037.4	1726.7	1416.0	1397.6	1507.1	1691.7
50°	2231.6	2175.5	2128.3	2190.2	2234.5	2206.1	1821.3	1508.3	1499.8	1638.6	1832.7
52.5°	2097.0	2088.7	2160.8	2265.2	2338.6	2313.1	1898.4	1603.1	1604.3	1802.8	2004.3
55°	2047.9	2037.4	2123.9	2252.3	2351.6	2336.4	1955.9	1710.2	1720.2	2002.1	2188.5
57.5°	2130.5	2104.6	2121.6	2227.9	2321.3	2312.4	2015.7	1828.9	1847.0	2231.6	2358.6
60°	2386.9	2334.2	2244.1	2264.1	2322.4	2317.3	2101.3	1961.4	1991.7	2470.8	2466.3
62.5°	2771.1	2711.4	2528.0	2439.3	2426.5	2416.5	2242.7	2124.2	2139.4	2643.5	2403.5
65°	3192.7	3128.3	2910.2	2765.3	2689.3	2667.8	2470.8	2320.5	2225.7	2643.2	2159.3
67.5°	3665.8	3597.8	3380.4	3242.1	3159.8	3123.2	2840.9	2479.2	2197.7	2419.4	1727.9
70°	4150.3	4085.8	3986.0	4034.4	4070.6	4014.9	3424.0	2532.1	1996.2	1897.0	1160.3
72.5°	3893.1	3888.0	3963.5	4421.8	5119.0	5130.1	4006.4	2382.9	1542.2	1127.5	618.6
73°	3654.2	3676.0	3816.3	4364.8	5208.7	5212.3	4017.8	2305.8	1416.0	971.3	543.3
75°	1893.2	2040.8	2561.2	3539.1	4823.1	4840.3	3541.7	1745.5	844.0	539.5	366.1
77.5°	507.1	500.4	825.3	1724.1	3215.6	3192.7	2237.9	845.1	404.4	338.4	256.8
80°	173.8	176.1	280.8	630.7	1500.9	1554.3	971.3	368.7	266.1	235.9	181.9
82.5°	88.6	91.5	147.0	268.4	627.7	614.5	312.6	217.0	178.3	143.2	101.9
85°	47.3	48.7	80.8	139.1	230.2	232.9	110.0	115.9	113.2	81.1	50.1
87.5°	23.3	24.0	38.7	61.3	85.2	82.3	38.4	50.1	55.8	45.8	27.7
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°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8
2.5°	874.0	874.0	878.7	886.7	892.7	898.2	902.0	907.8	911.2	910.8	910.4
5°	868.0	871.6	881.2	891.3	897.9	902.3	902.3	905.0	905.0	903.8	902.3
7.5°	854.4	860.7	874.6	883.6	885.3	880.6	870.9	863.6	854.4	849.5	847.7
10°	832.5	840.6	858.4	862.5	852.9	836.0	812.6	792.8	775.0	766.9	764.3
12.5°	811.2	821.9	838.5	832.2	809.4	776.0	740.4	713.0	693.0	685.2	682.7
15°	793.5	806.4	819.3	799.8	759.8	713.8	674.3	648.8	633.7	627.7	626.3
17.5°	781.6	796.7	801.2	764.6	709.3	657.6	622.5	605.9	599.3	596.7	596.0
20°	782.3	799.3	788.6	730.7	660.7	608.5	585.2	580.6	580.6	580.6	580.1
22.5°	802.6	817.5	783.5	699.1	613.7	567.2	557.3	561.4	564.2	564.2	563.9
25°	844.8	852.9	787.2	668.3	569.9	531.4	531.7	539.5	542.1	542.1	541.4
27.5°	908.9	902.3	793.8	634.5	526.6	499.0	504.0	511.1	513.0	511.9	511.5
30°	989.5	962.9	799.3	594.6	486.1	468.6	473.0	477.2	475.7	473.0	472.8
32.5°	1079.5	1024.4	796.1	549.9	450.2	437.4	439.9	442.1	439.9	433.6	433.6
35°	1168.8	1080.2	777.9	501.2	421.8	407.0	406.8	413.7	413.3	405.9	406.4
37.5°	1246.9	1124.0	742.9	456.5	397.5	385.0	386.5	390.9	393.0	383.0	382.0
40°	1315.3	1154.4	693.4	418.5	377.8	378.6	374.6	367.5	365.0	360.6	359.9
42.5°	1379.4	1175.4	641.0	386.8	367.9	376.4	362.7	346.1	339.2	343.2	345.8
45°	1442.6	1199.1	590.5	360.6	355.4	369.8	351.0	332.6	324.4	326.3	328.8
47.5°	1519.8	1231.8	529.6	332.6	336.1	357.6	343.6	323.7	311.5	304.0	301.9
50°	1621.3	1279.5	450.6	302.3	315.9	344.3	337.4	310.8	297.5	282.6	279.1
52.5°	1748.2	1324.6	370.9	277.8	299.2	332.9	327.0	299.7	283.4	265.7	262.8
55°	1874.8	1330.7	302.3	256.8	280.5	317.5	314.4	290.8	268.0	253.5	250.5
57.5°	1963.3	1271.5	256.1	239.2	262.3	298.1	303.0	280.1	254.9	243.9	242.2
60°	1964.9	1129.3	228.1	227.4	248.7	281.6	291.2	267.5	246.9	239.5	238.1
62.5°	1808.6	910.1	209.9	218.5	238.8	268.0	282.2	260.6	245.1	242.2	240.7
65°	1516.0	672.4	195.7	210.4	229.5	256.5	274.9	258.4	244.2	243.3	242.2
67.5°	1119.3	460.9	183.4	200.1	219.1	244.7	268.0	254.9	239.8	244.2	242.8
70°	704.1	307.8	171.9	188.3	205.5	231.0	258.7	249.1	234.4	231.8	226.9
72.5°	397.5	222.5	158.3	173.1	187.8	213.0	246.1	239.2	221.8	211.6	206.7
73°	359.1	210.7	155.0	169.4	183.9	209.2	243.3	236.2	218.1	206.7	202.3
75°	262.8	172.4	139.9	154.2	166.8	192.2	229.2	221.4	201.8	188.3	185.3
77.5°	190.4	132.9	120.4	133.2	144.3	168.6	208.1	199.2	180.1	172.7	169.8
80°	137.4	100.8	99.6	112.2	121.8	146.6	185.6	176.3	157.9	179.8	174.9
82.5°	81.9	64.6	73.0	87.0	97.0	122.9	161.2	150.6	132.9	134.3	114.4
85°	39.2	36.6	45.4	57.2	64.1	84.1	134.3	125.9	106.3	87.0	85.2
87.5°	17.3	16.6	21.7	25.4	34.3	50.6	91.8	81.6	77.2	46.2	36.1
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)