

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: P198628

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198628
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-7030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 4360 lumens
Efficiency: N/A
Efficacy: 99.1 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 - G1

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

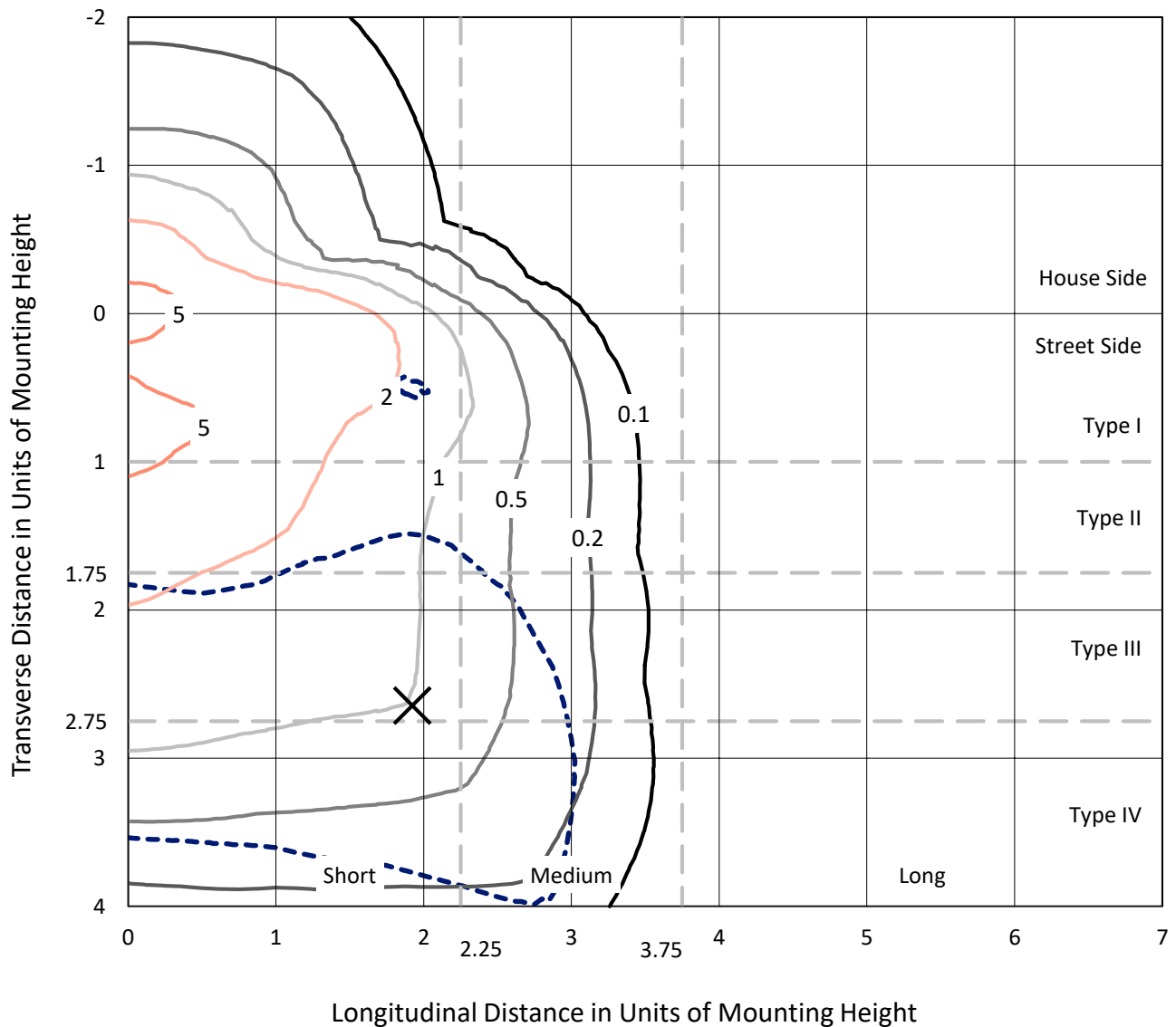


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

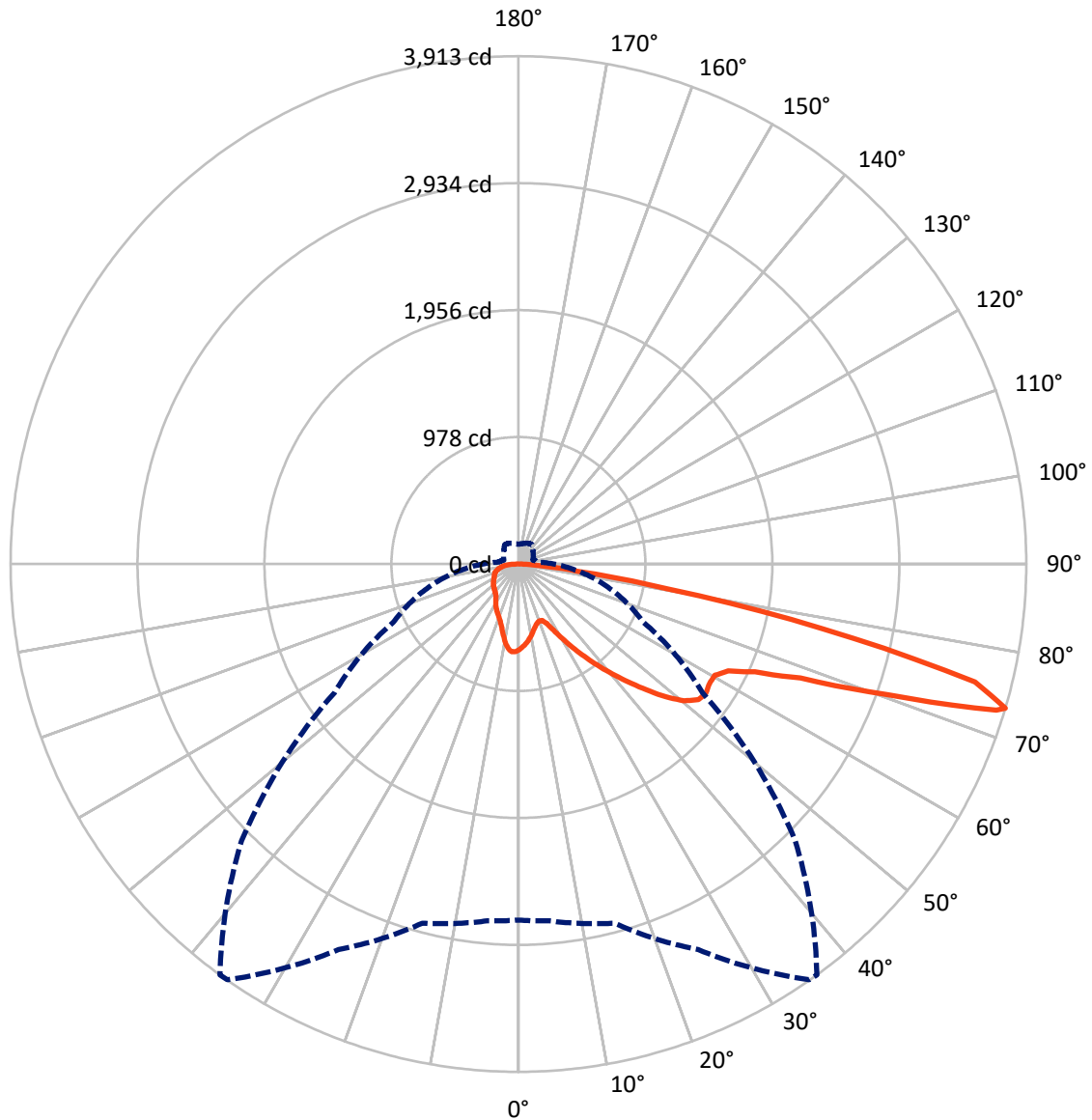


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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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	840.7	0.0	840.7
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	3519.3	0.0	3519.3
	% Fixture	80.7	0.0	80.7
Total	Lumens	4360.0	0.0	4360.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	1.4
10°-20°	150.7	3.5
20°-30°	241.5	5.5
30°-40°	399.5	9.2
40°-50°	618.2	14.2
50°-60°	827.6	19.0
60°-70°	1081.1	24.8
70°-80°	883.1	20.3
80°-90°	98.3	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°	4360.0	100.0
0°-180°	4360.0	100.0



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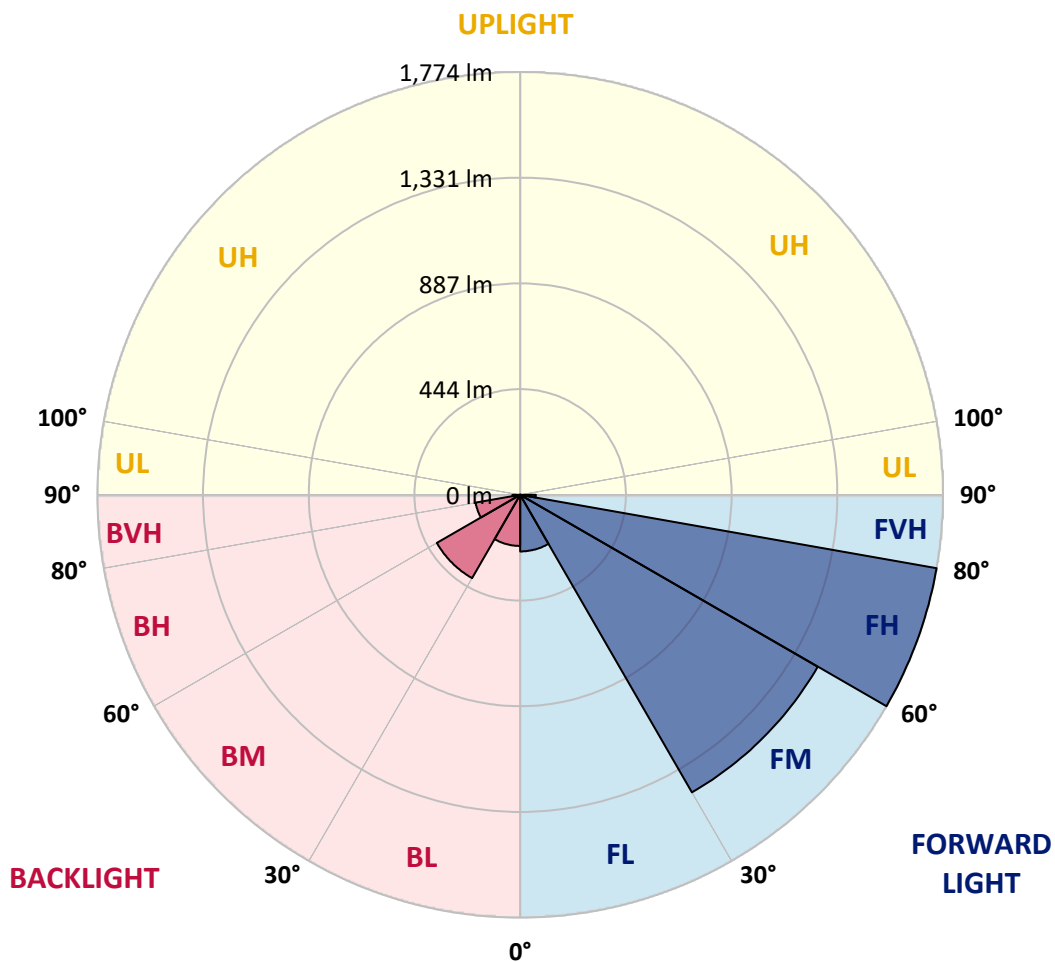
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.6	5.4			
FM (30°-60°)	1441.6	33.1			
FH (60°-80°)	1774.2	40.7			G1/1800
FVH (80°-90°)	65.9	1.5			G1/100
BL (0°-30°)	214.6	4.9	B1/500		
BM (30°-60°)	403.8	9.3	B1/1000		
BH (60°-80°)	190.0	4.4	B1/500		G1/500
BVH (80°-90°)	32.4	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4
2.5°	635.2	636.9	637.1	639.1	639.1	638.8	639.6	643.0	644.6	648.5	651.8
5°	603.9	605.8	606.7	610.0	614.2	614.4	617.5	623.8	629.9	638.5	645.7
7.5°	568.7	570.9	573.2	580.1	586.2	586.7	592.5	602.8	610.8	621.4	634.4
10°	534.6	535.2	537.4	546.3	554.3	555.1	563.5	575.1	585.9	600.6	615.3
12.5°	506.7	508.3	507.8	514.4	521.3	521.9	533.0	547.7	563.5	580.1	597.5
15°	497.0	496.7	490.9	490.6	493.6	494.2	505.0	522.2	539.9	560.4	582.8
17.5°	503.6	501.4	486.2	476.7	474.8	475.4	483.4	502.2	521.1	544.6	571.5
20°	540.2	531.6	495.9	473.1	466.8	466.8	471.5	486.7	507.5	534.9	568.7
22.5°	626.9	613.6	537.4	497.0	474.5	472.3	468.7	480.4	503.3	536.3	580.1
25°	736.0	729.7	613.6	560.4	514.1	506.9	483.1	487.3	511.9	551.3	611.1
27.5°	837.2	826.1	713.6	652.7	587.3	576.2	525.8	508.9	532.4	579.0	656.0
30°	896.2	888.7	816.4	758.2	680.4	666.2	593.9	551.5	569.0	624.7	719.7
32.5°	960.4	956.0	919.4	866.5	781.2	764.8	682.0	621.1	625.0	685.3	796.4
35°	1022.8	1028.6	1007.8	969.0	889.8	874.5	800.3	711.9	693.9	753.5	878.4
37.5°	1097.5	1098.9	1085.9	1060.7	1003.9	991.5	930.2	808.9	769.0	826.1	957.7
40°	1246.9	1225.0	1174.0	1154.1	1120.3	1112.5	1042.7	897.8	838.8	900.6	1032.4
42.5°	1408.4	1374.3	1294.5	1261.8	1248.2	1241.0	1136.3	957.1	904.2	975.1	1105.9
45°	1538.6	1510.9	1432.7	1392.3	1394.0	1382.3	1218.1	1010.0	975.1	1049.9	1187.9
47.5°	1666.8	1620.6	1533.0	1527.2	1546.6	1529.4	1296.2	1062.9	1049.1	1131.3	1269.9
50°	1675.1	1633.0	1597.6	1644.1	1677.3	1656.0	1367.1	1132.2	1125.8	1230.0	1375.7
52.5°	1574.0	1567.9	1621.9	1700.3	1755.5	1736.4	1425.0	1203.4	1204.2	1353.2	1504.5
55°	1537.2	1529.4	1594.2	1690.6	1765.2	1753.8	1468.2	1283.7	1291.2	1502.8	1642.7
57.5°	1599.2	1579.8	1592.6	1672.4	1742.4	1735.8	1513.1	1372.9	1386.5	1675.1	1770.4
60°	1791.8	1752.1	1684.6	1699.5	1743.3	1739.4	1577.3	1472.4	1495.1	1854.6	1851.3
62.5°	2080.1	2035.3	1897.6	1831.1	1821.4	1813.9	1683.4	1594.5	1605.9	1984.3	1804.2
65°	2396.5	2348.3	2184.6	2075.7	2018.6	2002.6	1854.6	1741.9	1670.7	1984.0	1620.8
67.5°	2751.6	2700.7	2537.5	2433.6	2371.8	2344.4	2132.5	1861.0	1649.6	1816.1	1297.0
70°	3115.4	3066.9	2992.1	3028.4	3055.5	3013.7	2570.2	1900.6	1498.4	1423.9	870.9
72.5°	2922.3	2918.4	2975.2	3319.2	3842.5	3850.8	3007.3	1788.7	1157.7	846.3	464.3
73°	2743.0	2759.4	2864.7	3276.3	3909.8	3912.6	3015.9	1730.8	1062.9	729.1	407.8
75°	1421.1	1531.9	1922.5	2656.6	3620.4	3633.4	2658.6	1310.3	633.5	405.0	274.8
77.5°	380.6	375.6	619.4	1294.2	2413.7	2396.5	1679.8	634.4	303.6	254.0	192.8
80°	130.5	132.1	210.8	473.4	1126.6	1166.8	729.1	276.7	199.7	177.0	136.6
82.5°	66.5	68.7	110.3	201.4	471.2	461.2	234.6	162.9	133.8	107.5	76.5
85°	35.5	36.6	60.7	104.4	172.9	174.8	82.6	87.0	85.0	60.9	37.7
87.5°	17.5	18.0	29.1	46.0	64.0	61.8	28.8	37.7	41.8	34.4	20.8
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°	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4
2.5°	656.0	656.0	659.6	665.7	670.1	674.3	677.0	681.5	684.0	683.7	683.4
5°	651.5	654.3	661.5	669.0	674.0	677.3	677.3	679.3	679.3	678.4	677.3
7.5°	641.3	646.0	656.5	663.2	664.6	661.0	653.8	648.2	641.3	637.7	636.3
10°	625.0	631.0	644.3	647.4	640.2	627.4	610.0	595.0	581.7	575.6	573.7
12.5°	608.9	616.9	629.4	624.7	607.5	582.6	555.7	535.2	520.2	514.4	512.5
15°	595.6	605.3	615.0	600.3	570.4	535.8	506.1	487.0	475.6	471.2	470.1
17.5°	586.7	598.1	601.4	574.0	532.4	493.6	467.3	454.9	449.9	447.9	447.4
20°	587.3	600.0	592.0	548.5	495.9	456.8	439.4	435.8	435.8	435.8	435.5
22.5°	602.5	613.6	588.1	524.7	460.7	425.8	418.3	421.3	423.6	423.6	423.3
25°	634.1	640.2	590.9	501.7	427.7	398.9	399.2	405.0	406.9	406.9	406.4
27.5°	682.3	677.3	595.9	476.2	395.3	374.5	378.4	383.7	385.1	384.2	383.9
30°	742.7	722.7	600.0	446.3	364.8	351.8	355.1	358.2	357.1	355.1	354.9
32.5°	810.3	769.0	597.5	412.8	338.0	328.3	330.2	331.9	330.2	325.5	325.5
35°	877.3	810.8	584.0	376.2	316.6	305.6	305.3	310.5	310.3	304.7	305.0
37.5°	936.0	843.8	557.6	342.7	298.3	288.9	290.0	293.4	295.0	287.5	286.7
40°	987.3	866.5	520.5	314.1	283.7	284.2	281.2	275.9	274.0	270.6	270.1
42.5°	1035.5	882.3	481.2	290.3	276.2	282.6	272.3	259.8	254.6	257.6	259.6
45°	1082.9	900.0	443.2	270.6	266.8	277.6	263.4	249.6	243.5	244.9	246.8
47.5°	1140.8	924.7	397.5	249.6	252.4	268.4	257.9	242.9	233.8	228.3	226.6
50°	1216.9	960.4	338.2	226.9	237.1	258.5	253.2	233.2	223.3	212.2	209.4
52.5°	1312.2	994.2	278.4	208.6	224.7	249.9	245.4	224.9	212.8	199.5	197.2
55°	1407.3	998.9	226.9	192.8	210.5	238.2	236.0	218.3	201.1	190.3	188.1
57.5°	1473.7	954.3	192.3	179.5	197.0	223.8	227.4	210.3	191.4	183.1	181.7
60°	1474.8	847.7	171.2	170.6	186.7	211.4	218.6	200.8	185.3	179.8	178.7
62.5°	1357.7	683.1	157.6	164.0	179.2	201.1	211.9	195.6	183.9	181.7	180.6
65°	1138.0	504.7	146.8	157.9	172.3	192.5	206.4	193.9	183.4	182.6	181.7
67.5°	840.2	346.0	137.7	150.1	164.5	183.7	201.1	191.4	180.1	183.4	182.3
70°	528.6	231.0	129.1	141.3	154.3	173.4	194.2	187.0	175.9	174.0	170.4
72.5°	298.3	167.0	118.8	129.9	141.0	159.8	184.8	179.5	166.5	158.7	155.1
73°	269.5	158.2	116.3	127.2	138.0	157.1	182.6	177.3	163.7	155.1	151.8
75°	197.2	129.4	105.0	115.8	125.2	144.3	172.0	166.2	151.5	141.3	139.1
77.5°	142.9	99.7	90.3	100.0	108.3	126.6	156.2	149.6	135.2	129.6	127.4
80°	103.1	75.6	74.8	84.2	91.4	110.0	139.3	132.4	118.6	134.9	131.3
82.5°	61.5	48.5	54.8	65.4	72.9	92.2	121.1	113.0	99.7	100.8	85.9
85°	29.4	27.4	34.1	42.9	48.2	63.2	100.8	94.5	79.8	65.4	64.0
87.5°	13.0	12.5	16.3	19.1	25.8	38.0	69.0	61.2	57.9	34.6	27.1
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)