

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: P271273

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271273
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 5295.1 lumens
Efficiency: N/A
Efficacy: 91.3 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

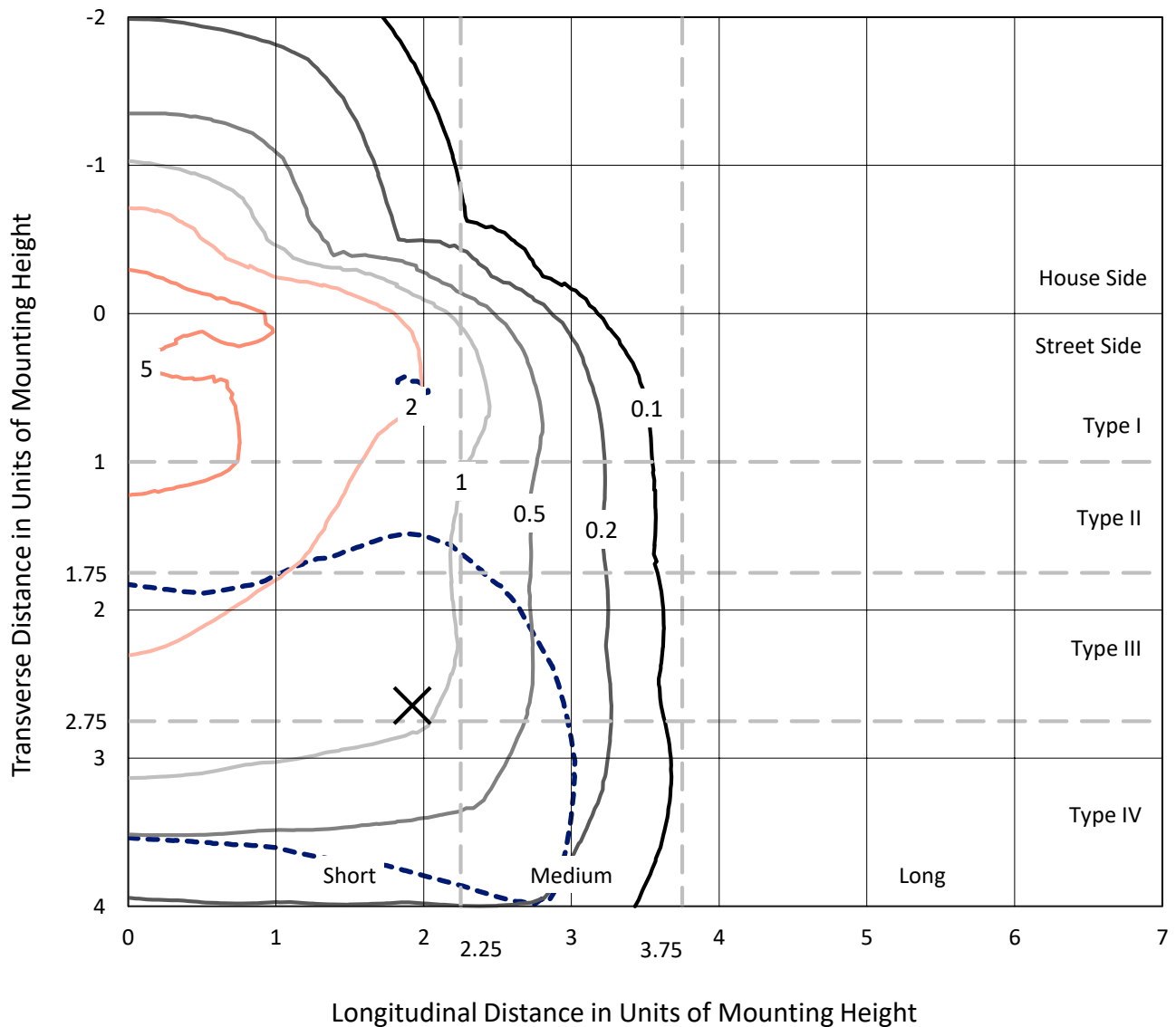
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271273
 CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027

Iso-Footcandle Lines of Horizontal Illumination

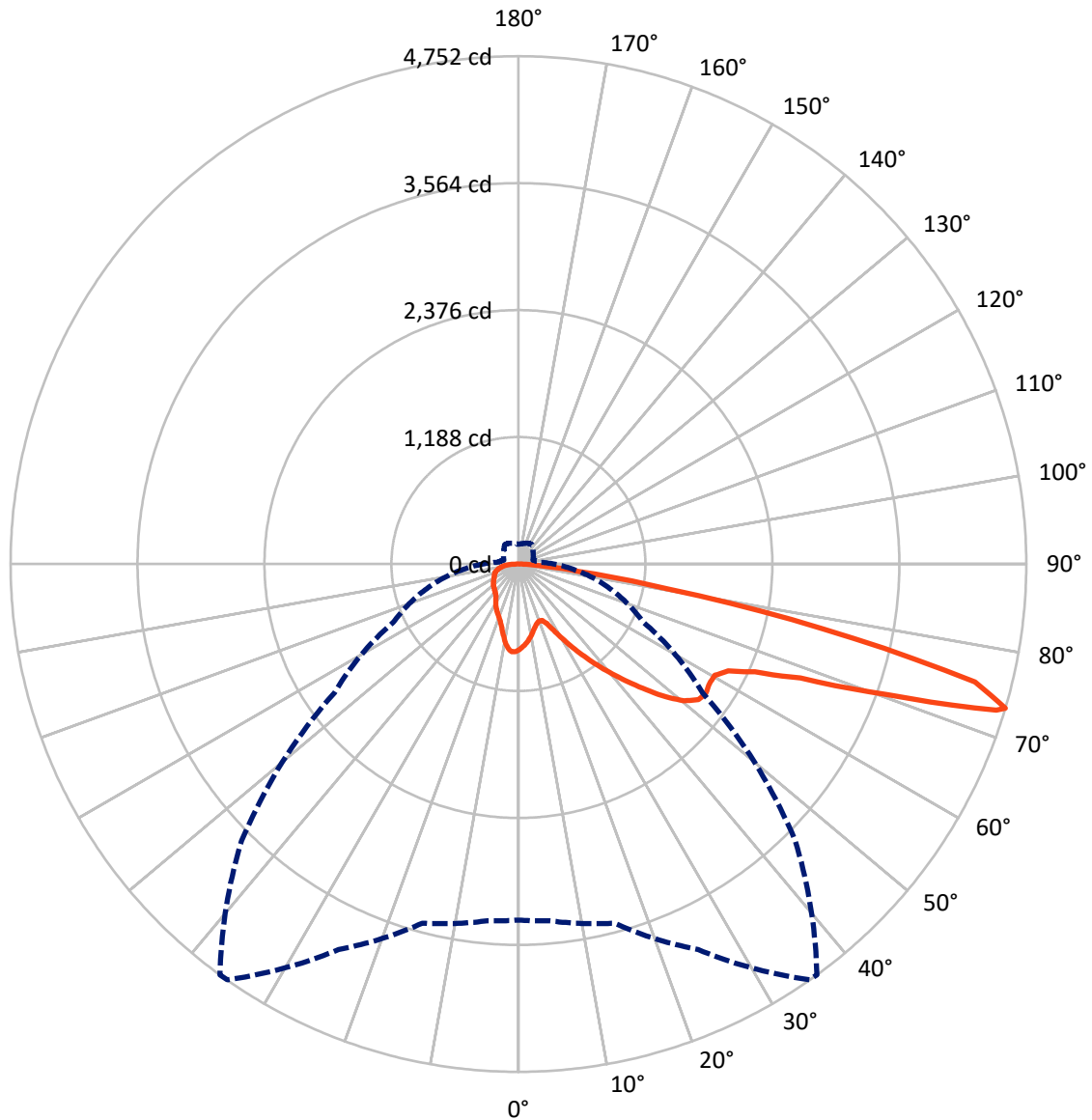
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271273
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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	1021.0	0.0	1021.0
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	4274.0	0.0	4274.0
	% Fixture	80.7	0.0	80.7
Total	Lumens	5295.1	0.0	5295.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.4
10°-20°	183.0	3.5
20°-30°	293.3	5.5
30°-40°	485.2	9.2
40°-50°	750.8	14.2
50°-60°	1005.1	19.0
60°-70°	1313.0	24.8
70°-80°	1072.5	20.3
80°-90°	119.4	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°	5295.1	100.0
0°-180°	5295.1	100.0

Coefficient of Utilization



REPORT NUMBER: P271273

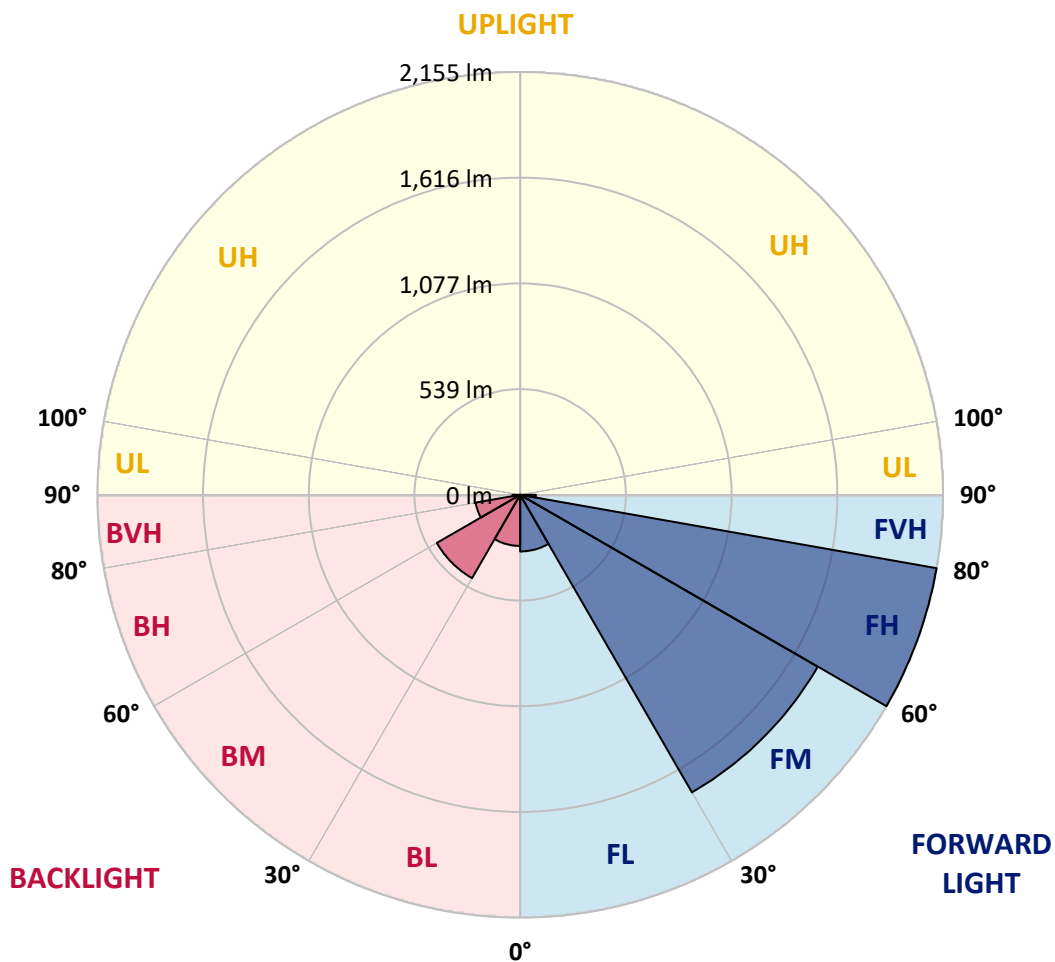
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.5	5.4			
FM (30°-60°)	1750.7	33.1			
FH (60°-80°)	2154.7	40.7			G2/5000
FVH (80°-90°)	80.1	1.5			G1/100
BL (0°-30°)	260.6	4.9	B1/500		
BM (30°-60°)	490.4	9.3	B1/1000		
BH (60°-80°)	230.7	4.4	B1/500		G1/500
BVH (80°-90°)	39.3	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





REPORT NUMBER: P271273

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	802.0	802.0	802.0	802.0	802.0	802.0	802.0	802.0	802.0	802.0	802.0
2.5°	771.5	773.4	773.8	776.1	776.1	775.7	776.9	780.8	782.9	787.5	791.6
5°	733.5	735.8	736.8	740.8	745.9	746.2	749.9	757.6	765.0	775.4	784.2
7.5°	690.6	693.4	696.0	704.5	711.8	712.5	719.6	732.1	741.8	754.7	770.4
10°	649.4	650.0	652.7	663.5	673.2	674.2	684.2	698.4	711.5	729.3	747.2
12.5°	615.2	617.3	616.6	624.7	633.1	633.8	647.3	665.1	684.2	704.5	725.7
15°	603.5	603.2	596.1	595.8	599.4	600.2	613.4	634.2	655.8	680.6	707.9
17.5°	611.7	609.0	590.5	579.0	576.6	577.3	587.0	609.9	632.9	661.4	694.1
20°	656.0	645.6	602.3	574.6	566.9	566.9	572.6	591.2	616.3	649.7	690.6
22.5°	761.4	745.2	652.7	603.5	576.4	573.6	569.3	583.4	611.2	651.4	704.5
25°	894.0	886.2	745.2	680.6	624.4	615.7	586.8	591.8	621.7	669.4	742.2
27.5°	1016.7	1003.2	866.7	792.7	713.3	699.8	638.5	618.0	646.6	703.2	796.6
30°	1088.3	1079.3	991.5	920.9	826.4	809.2	721.2	669.9	691.1	758.7	874.1
32.5°	1166.4	1161.0	1116.7	1052.4	948.7	928.8	828.2	754.2	759.0	832.3	967.3
35°	1242.0	1249.2	1223.9	1176.8	1080.7	1062.2	972.0	864.6	842.8	915.2	1066.8
37.5°	1332.9	1334.6	1318.8	1288.2	1219.2	1204.1	1129.8	982.3	934.0	1003.2	1163.0
40°	1514.3	1487.8	1425.8	1401.5	1360.6	1351.1	1266.3	1090.4	1018.7	1093.7	1253.9
42.5°	1710.5	1669.1	1572.2	1532.5	1516.0	1507.3	1380.1	1162.3	1098.1	1184.2	1343.1
45°	1868.6	1834.9	1740.0	1690.9	1692.9	1678.8	1479.2	1226.6	1184.2	1275.1	1442.6
47.5°	2024.3	1968.1	1861.7	1854.7	1878.3	1857.4	1574.2	1290.9	1274.1	1374.0	1542.2
50°	2034.4	1983.3	1940.2	1996.8	2037.0	2011.1	1660.2	1374.9	1367.3	1493.7	1670.7
52.5°	1911.7	1904.1	1969.9	2065.1	2131.9	2108.7	1730.7	1461.5	1462.5	1643.4	1827.2
55°	1866.9	1857.4	1936.1	2053.3	2143.7	2129.9	1783.0	1559.0	1568.1	1825.1	1995.0
57.5°	1942.2	1918.7	1934.1	2031.1	2116.1	2108.1	1837.7	1667.3	1683.9	2034.4	2150.2
60°	2176.1	2127.9	2045.8	2064.0	2117.1	2112.5	1915.6	1788.2	1815.7	2252.4	2248.4
62.5°	2526.3	2471.7	2304.5	2223.8	2212.0	2203.0	2044.5	1936.4	1950.3	2409.9	2191.1
65°	2910.5	2851.8	2653.1	2520.9	2451.6	2432.2	2252.4	2115.5	2029.0	2409.6	1968.5
67.5°	3341.8	3279.9	3081.7	2955.6	2880.5	2847.2	2589.9	2260.1	2003.5	2205.7	1575.2
70°	3783.5	3724.6	3633.9	3677.9	3710.9	3660.1	3121.4	2308.3	1819.7	1729.2	1057.8
72.5°	3549.1	3544.4	3613.3	4031.1	4666.6	4676.8	3652.2	2172.3	1405.9	1027.8	563.9
73°	3331.4	3351.1	3479.0	3979.0	4748.4	4751.8	3662.7	2102.0	1290.9	885.5	495.2
75°	1726.0	1860.5	2334.9	3226.4	4396.8	4412.7	3228.8	1591.3	769.4	491.8	333.7
77.5°	462.3	456.2	752.3	1571.9	2931.3	2910.5	2040.1	770.4	368.8	308.5	234.2
80°	158.5	160.4	256.0	574.9	1368.3	1417.0	885.5	336.1	242.5	215.0	165.8
82.5°	80.8	83.5	133.8	244.6	572.3	560.2	284.9	197.8	162.6	130.6	92.9
85°	43.1	44.3	73.8	126.8	209.9	212.3	100.3	105.6	103.2	74.0	45.8
87.5°	21.2	21.9	35.4	55.9	77.8	75.0	34.9	45.8	50.8	41.7	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271273

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	802.0	802.0	802.0	802.0	802.0	802.0	802.0	802.0	802.0	802.0	802.0
2.5°	796.6	796.6	801.1	808.5	813.9	818.9	822.3	827.6	830.7	830.4	829.9
5°	791.2	794.6	803.4	812.4	818.5	822.6	822.6	825.0	825.0	823.9	822.6
7.5°	778.8	784.6	797.3	805.4	807.0	802.7	794.0	787.3	778.8	774.5	772.8
10°	759.0	766.4	782.6	786.2	777.6	762.0	740.8	722.6	706.4	699.2	696.7
12.5°	739.5	749.2	764.4	758.7	737.8	707.5	674.8	650.0	631.8	624.7	622.3
15°	723.3	735.2	746.9	729.1	692.8	650.6	614.7	591.4	577.7	572.3	571.0
17.5°	712.5	726.4	730.4	697.1	646.6	599.4	567.5	552.4	546.3	544.1	543.4
20°	713.3	728.7	719.0	666.2	602.3	554.8	533.6	529.2	529.2	529.2	528.8
22.5°	731.7	745.2	714.2	637.2	559.5	517.2	508.0	511.8	514.4	514.4	514.1
25°	770.0	777.6	717.6	609.3	519.5	484.5	484.7	491.8	494.2	494.2	493.6
27.5°	828.6	822.6	723.7	578.2	480.1	454.8	459.6	466.0	467.7	466.6	466.3
30°	902.0	877.7	728.7	541.9	443.0	427.2	431.2	435.0	433.6	431.2	430.9
32.5°	984.1	934.0	725.7	501.3	410.4	398.7	401.1	403.0	401.1	395.3	395.3
35°	1065.5	984.7	709.2	456.9	384.6	371.1	370.7	377.2	376.7	370.1	370.5
37.5°	1136.8	1024.7	677.2	416.2	362.3	350.9	352.2	356.3	358.3	349.3	348.3
40°	1199.1	1052.4	632.1	381.5	344.5	345.2	341.4	335.1	332.7	328.7	328.1
42.5°	1257.5	1071.6	584.3	352.6	335.4	343.2	330.8	315.6	309.1	312.9	315.2
45°	1315.1	1093.1	538.3	328.7	324.0	337.1	319.9	303.1	295.7	297.3	299.8
47.5°	1385.5	1123.1	482.7	303.1	306.5	326.1	313.1	295.1	284.0	277.2	275.2
50°	1477.9	1166.4	410.7	275.5	287.9	313.9	307.5	283.2	271.2	257.8	254.3
52.5°	1593.7	1207.4	338.1	253.3	272.8	303.4	298.1	273.2	258.4	242.3	239.6
55°	1709.0	1213.3	275.5	234.2	255.7	289.3	286.6	265.1	244.2	231.1	228.3
57.5°	1789.9	1159.1	233.5	218.0	239.2	271.8	276.1	255.4	232.5	222.4	220.8
60°	1791.2	1029.5	207.9	207.2	226.7	256.6	265.4	243.9	225.0	218.4	217.0
62.5°	1648.8	829.7	191.3	199.2	217.7	244.2	257.4	237.5	223.4	220.8	219.4
65°	1382.0	613.0	178.4	191.8	209.2	233.7	250.6	235.4	222.7	221.7	220.8
67.5°	1020.4	420.1	167.3	182.4	199.9	223.0	244.2	232.5	218.6	222.7	221.3
70°	641.8	280.6	156.8	171.5	187.3	210.7	235.9	227.1	213.6	211.3	206.9
72.5°	362.3	202.8	144.4	157.8	171.2	194.2	224.3	218.0	202.2	192.7	188.5
73°	327.3	192.1	141.4	154.4	167.5	190.8	221.7	215.4	198.9	188.5	184.3
75°	239.6	157.2	127.5	140.7	152.1	175.3	208.9	201.8	184.1	171.5	168.9
77.5°	173.6	121.1	109.7	121.5	131.5	153.8	189.7	181.6	164.2	157.5	154.8
80°	125.1	91.8	90.9	102.2	111.0	133.6	169.2	160.7	144.0	163.9	159.4
82.5°	74.6	58.8	66.7	79.4	88.6	112.0	147.1	137.4	121.1	122.4	104.4
85°	35.7	33.2	41.4	52.1	58.5	76.7	122.4	114.8	96.8	79.4	77.8
87.5°	15.8	15.1	19.9	23.3	31.4	46.2	83.8	74.4	70.2	42.0	33.0
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)