

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: McGRAW-EDISON

Report Number: P301141

Luminaire Tested: **GLNA-AF-01-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-T3R-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4962.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

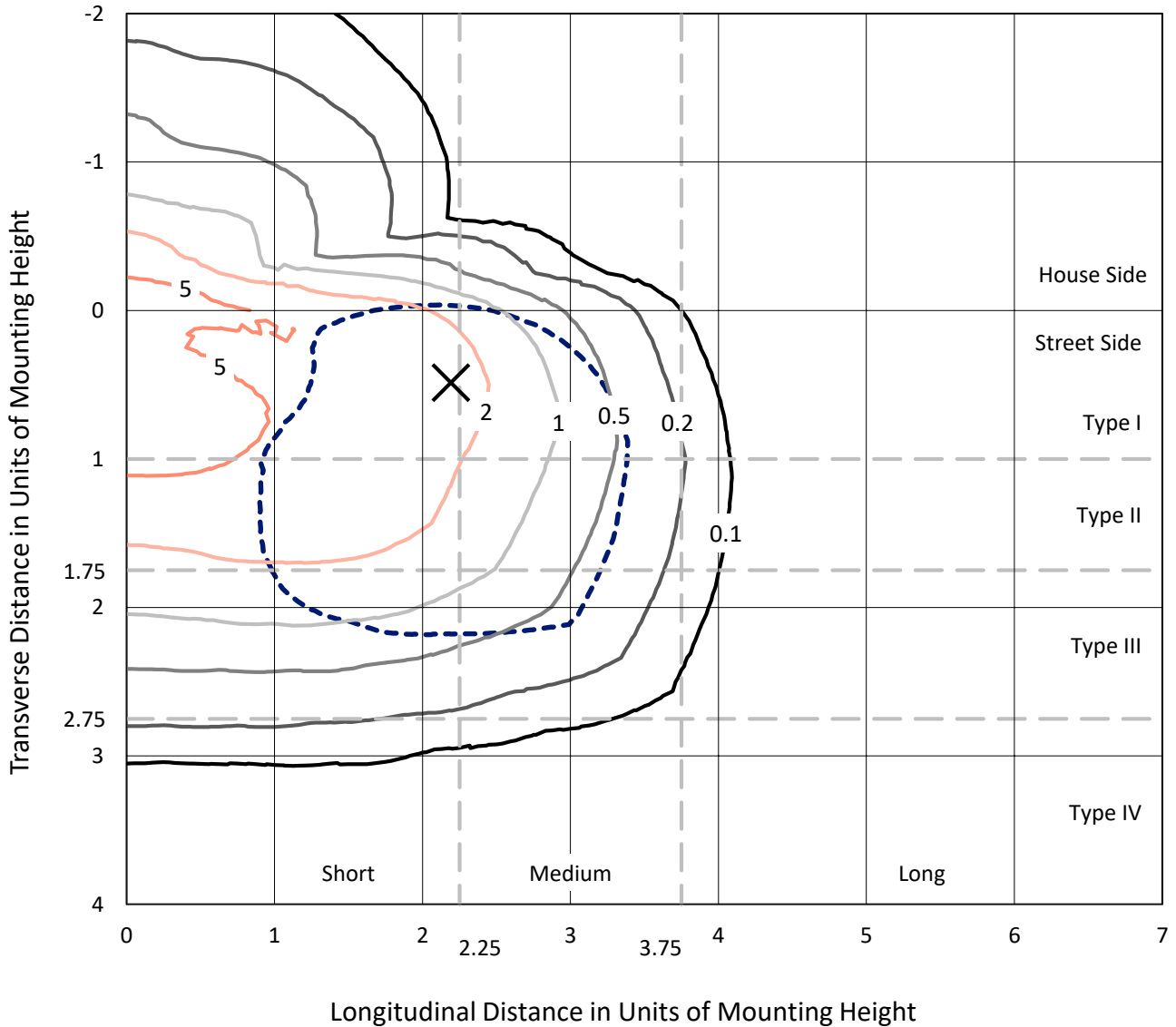
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P301141
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Iso-Footcandle Lines of Horizontal Illumination

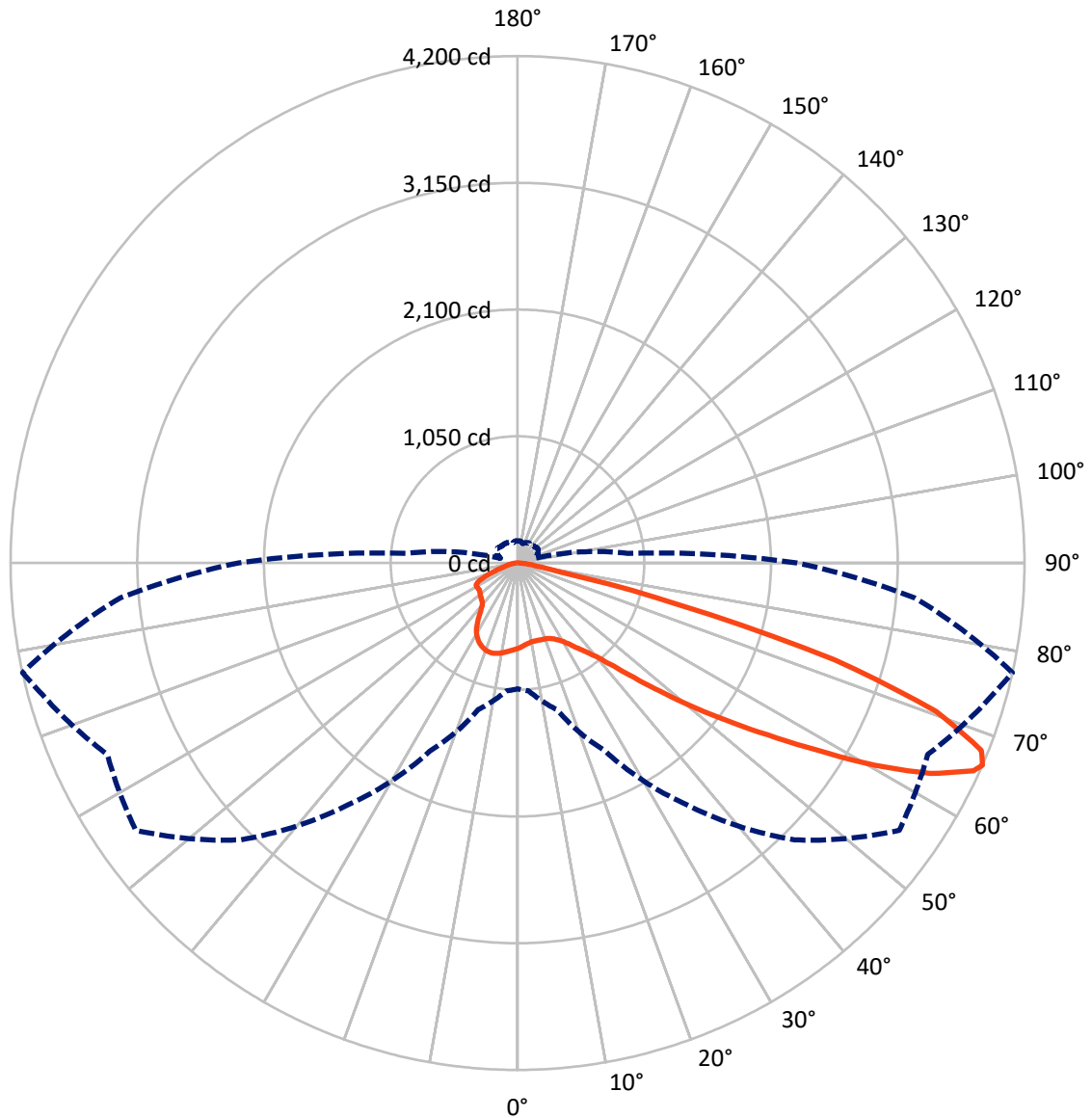
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P301141
CATALOG NUMBER: GLNA-AF-01-LED-E1-T3R-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P301141

CATALOG NUMBER: GLNA-AF-01-LED-E1-T3R-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.7	0.0	847.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	4114.3	0.0	4114.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	4962.1	0.0	4962.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.3
10°-20°	178.2	3.6
20°-30°	304.2	6.1
30°-40°	486.9	9.8
40°-50°	752.3	15.2
50°-60°	1067.0	21.5
60°-70°	1427.3	28.8
70°-80°	619.9	12.5
80°-90°	63.2	1.3
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°	4962.1	100.0
0°-180°	4962.1	100.0



REPORT NUMBER: P301141

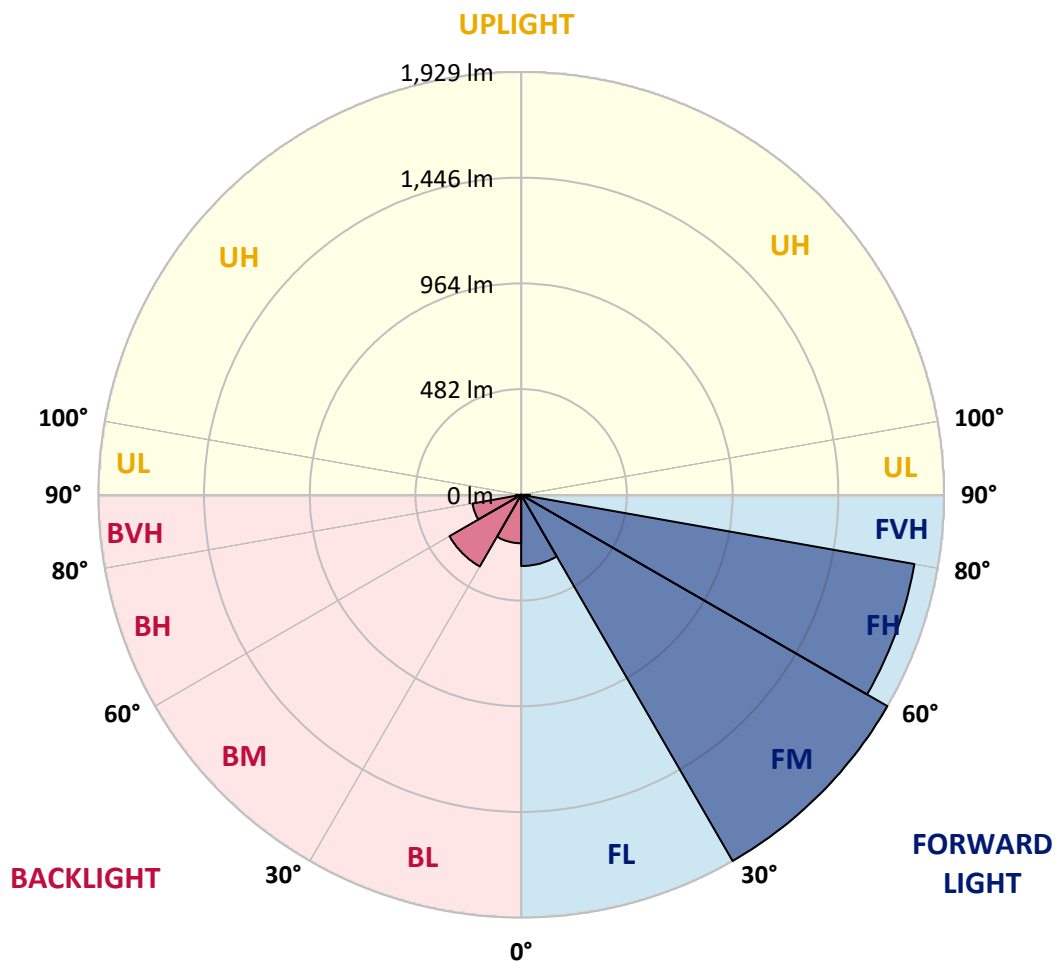
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.8	6.5			
FM	(30°-60°)	1928.5	38.9			
FH	(60°-80°)	1821.4	36.7			G2/5000
FVH	(80°-90°)	39.6	0.8			G1/100
BL	(0°-30°)	220.8	4.4	B1/500		
BM	(30°-60°)	377.6	7.6	B1/1000		
BH	(60°-80°)	225.8	4.5	B1/500		G1/500
BVH	(80°-90°)	23.6	0.5			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 III Short





REPORT NUMBER: P301141

CATALOG NUMBER: GLNA-AF-01-LED-E1-T3R-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1
2.5°	625.5	629.7	633.3	636.5	643.1	653.9	666.3	676.4	690.9	693.8	701.5
5°	568.1	568.1	570.9	575.9	584.7	600.9	617.8	640.3	672.0	679.4	700.1
7.5°	540.2	540.4	542.1	546.3	554.0	568.8	587.3	613.8	656.7	669.1	704.3
10°	550.5	548.2	544.6	542.6	543.7	552.4	570.0	599.5	647.3	663.2	713.7
12.5°	608.2	603.8	591.5	575.4	559.9	553.6	563.9	592.7	643.4	661.9	726.1
15°	702.4	700.6	677.8	644.3	606.8	575.4	568.3	590.1	643.8	663.5	740.9
17.5°	820.6	818.0	788.0	739.3	678.1	616.9	584.0	592.3	645.4	666.3	755.2
20°	940.0	931.9	899.6	841.5	762.9	673.3	610.1	597.6	647.6	669.3	770.2
22.5°	1029.0	1022.4	993.4	936.9	846.4	738.8	645.0	607.0	654.4	678.3	788.7
25°	1107.3	1107.8	1078.9	1024.4	930.8	808.2	690.0	632.1	671.7	696.5	814.0
27.5°	1204.2	1198.6	1171.6	1117.4	1014.3	878.3	744.4	666.6	697.5	722.6	847.3
30°	1320.0	1316.0	1284.8	1223.4	1106.8	953.5	806.5	706.6	730.8	756.8	890.9
32.5°	1456.2	1454.3	1422.0	1343.0	1213.8	1042.2	879.5	759.6	780.5	807.5	953.5
35°	1616.1	1616.3	1578.1	1483.2	1330.7	1145.3	962.2	827.9	841.0	869.1	1028.1
37.5°	1714.6	1726.5	1712.2	1615.4	1463.2	1260.7	1069.6	918.4	909.9	938.3	1108.1
40°	1735.7	1750.2	1795.4	1746.2	1611.4	1387.7	1164.8	1005.3	994.8	1029.5	1211.0
42.5°	1706.1	1726.3	1822.0	1856.6	1768.7	1544.3	1292.8	1134.5	1121.2	1167.8	1339.0
45°	1688.5	1703.6	1814.2	1914.1	1905.2	1721.4	1455.8	1296.7	1291.8	1353.0	1486.7
47.5°	1658.1	1671.7	1778.1	1927.5	1985.4	1883.6	1651.5	1495.1	1504.7	1584.9	1653.4
50°	1674.5	1680.1	1737.8	1893.5	2008.6	2002.5	1870.3	1724.9	1757.7	1857.8	1842.1
52.5°	1672.1	1686.7	1733.1	1837.7	2011.7	2075.9	2085.7	1981.1	2050.3	2165.2	2051.5
55°	1351.9	1378.6	1678.0	1823.6	2022.4	2147.8	2277.5	2251.2	2380.2	2514.0	2287.8
57.5°	1290.9	1307.8	1473.8	1853.1	2079.6	2285.2	2490.8	2548.5	2764.2	2919.7	2575.7
60°	1278.9	1299.8	1471.7	1889.3	2195.7	2509.1	2807.2	2908.5	3231.5	3401.7	2909.6
62.5°	1241.7	1264.2	1457.8	1884.5	2360.5	2818.9	3212.1	3291.1	3674.6	3840.2	3188.9
65°	1123.5	1144.6	1345.1	1808.8	2471.7	3149.5	3691.2	3641.8	4024.5	4148.9	3328.1
66°	1042.6	1063.3	1256.2	1719.8	2445.8	3243.2	3861.0	3750.4	4102.8	4200.3	3300.9
67.5°	894.7	910.8	1083.6	1520.2	2308.7	3269.5	4003.8	3831.9	4110.9	4145.4	3145.5
70°	565.3	570.0	704.3	1049.4	1747.7	2835.5	3786.4	3629.4	3771.9	3678.6	2636.9
72.5°	245.3	243.6	338.1	533.8	989.4	1902.6	3062.9	2994.7	2958.9	2746.0	1845.9
75°	136.4	138.4	175.6	247.8	402.1	934.6	2003.6	1917.4	1618.9	1381.4	837.0
77.5°	109.5	112.1	145.6	175.8	180.5	325.9	937.6	762.9	459.3	368.6	232.6
80°	86.5	91.2	127.1	136.9	121.7	134.3	302.9	242.2	181.7	166.7	120.5
82.5°	68.4	71.8	109.0	103.6	85.1	90.5	145.1	141.4	118.2	107.6	69.6
85°	49.3	55.3	89.6	78.1	55.8	61.0	96.3	92.4	67.7	55.3	30.7
87.5°	20.2	26.3	63.3	51.8	31.2	28.4	48.1	45.2	32.1	23.4	15.3
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: P301141

CATALOG NUMBER: GLNA-AF-01-LED-E1-T3R-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1
2.5°	706.4	712.0	719.3	723.8	726.1	727.8	730.3	730.1	730.8	731.0	732.0
5°	711.1	720.5	731.0	733.9	733.9	731.2	728.7	724.4	722.8	722.4	722.8
7.5°	723.3	733.6	742.7	739.5	732.5	722.1	708.7	697.0	690.7	688.6	688.2
10°	738.8	751.2	755.0	742.5	721.9	697.0	670.6	651.3	640.3	637.3	636.3
12.5°	757.5	769.2	764.1	737.8	699.6	659.5	622.9	592.3	569.3	562.0	561.5
15°	778.2	787.3	769.2	723.3	666.3	607.2	542.1	489.1	460.5	451.3	450.6
17.5°	797.4	802.1	766.2	698.0	617.3	521.7	435.2	394.3	384.5	386.9	387.3
20°	813.8	813.8	755.9	661.6	540.2	408.9	354.2	353.6	360.6	367.6	369.1
22.5°	831.8	821.0	737.8	610.3	430.9	334.6	326.6	333.1	341.1	348.8	350.0
25°	854.1	826.9	712.7	532.5	338.8	303.8	306.9	312.3	316.3	321.2	321.9
27.5°	879.0	834.4	679.7	425.3	294.0	284.7	287.0	288.9	288.4	290.3	290.7
30°	908.7	843.1	634.4	332.4	275.5	268.2	264.0	262.4	262.4	265.4	266.6
32.5°	948.6	856.0	569.5	284.9	266.6	256.5	242.9	236.8	239.2	249.5	251.8
35°	992.5	869.8	481.6	268.7	264.7	251.1	230.0	218.7	219.0	228.6	231.6
37.5°	1040.3	887.4	385.2	265.6	268.9	251.4	223.2	207.7	201.4	201.4	202.6
40°	1101.5	905.5	311.9	267.8	277.8	254.1	219.7	199.1	181.2	181.7	182.7
42.5°	1181.2	920.9	272.5	272.2	288.6	257.9	219.4	187.6	172.1	182.7	192.2
45°	1269.8	928.7	255.1	276.2	297.3	260.2	215.7	185.7	173.3	204.7	223.0
47.5°	1371.8	924.2	245.5	277.6	299.4	260.2	211.5	190.2	181.4	237.0	258.4
50°	1483.6	911.3	236.1	274.8	298.7	259.7	215.4	194.6	184.5	242.6	257.4
52.5°	1615.2	900.6	226.2	268.7	293.7	257.2	220.1	192.7	174.9	220.6	230.9
55°	1765.2	903.6	215.2	260.0	286.0	252.3	218.5	185.2	164.8	194.4	200.7
57.5°	1957.0	940.0	202.1	249.0	275.5	244.1	212.7	181.7	161.8	176.3	180.1
60°	2171.0	1003.2	185.7	238.0	262.4	230.9	208.2	183.4	163.2	174.9	176.8
62.5°	2328.1	1040.0	171.6	221.8	244.6	216.4	202.6	185.4	167.0	179.8	179.4
65°	2370.8	979.6	154.0	198.1	220.4	201.2	195.5	187.8	168.6	183.8	181.7
66°	2311.0	914.4	146.3	187.1	208.2	193.7	192.0	187.6	167.9	184.3	180.7
67.5°	2165.9	780.7	133.0	170.9	188.8	182.4	186.4	185.4	166.0	183.8	178.9
70°	1766.4	532.7	113.7	142.3	157.1	160.6	175.6	178.0	159.9	175.6	164.8
72.5°	1234.2	324.5	100.6	110.5	127.1	136.9	160.9	167.6	151.7	153.3	143.0
75°	596.4	172.4	91.2	85.6	98.7	114.4	143.0	153.5	138.8	128.3	124.5
77.5°	185.9	105.3	77.4	68.9	77.4	92.4	119.5	134.6	123.6	107.4	106.0
80°	99.9	77.4	59.6	55.3	61.2	72.5	94.0	112.3	106.2	96.3	86.0
82.5°	65.9	50.2	44.1	42.9	46.6	55.3	69.9	93.1	93.1	82.6	60.1
85°	34.0	30.7	30.2	30.2	32.6	36.8	47.6	71.8	76.5	43.6	36.1
87.5°	16.9	17.6	16.4	17.1	18.3	18.0	22.7	36.1	43.2	26.5	22.0
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)