

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: P191165

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34799.8 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

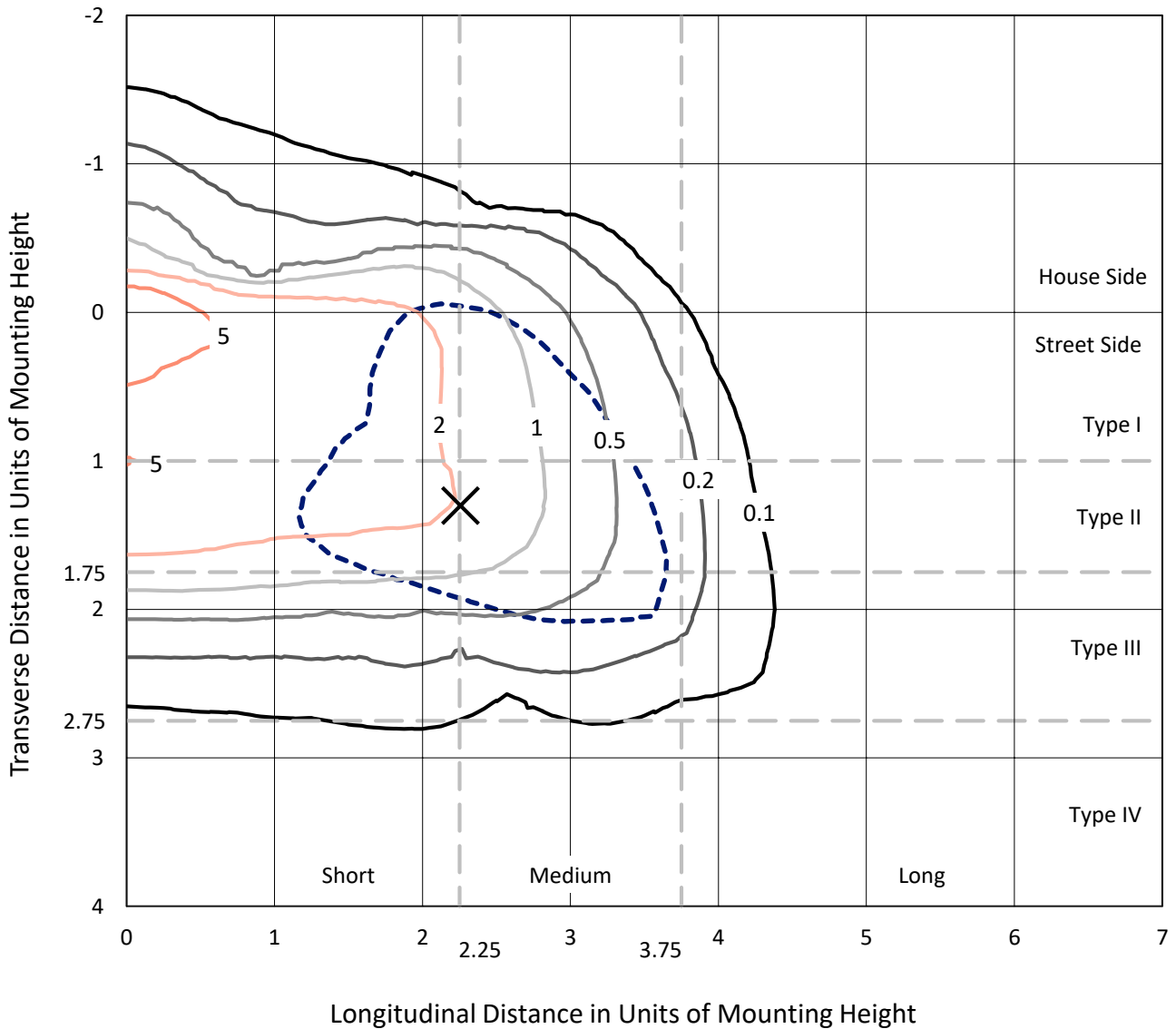
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

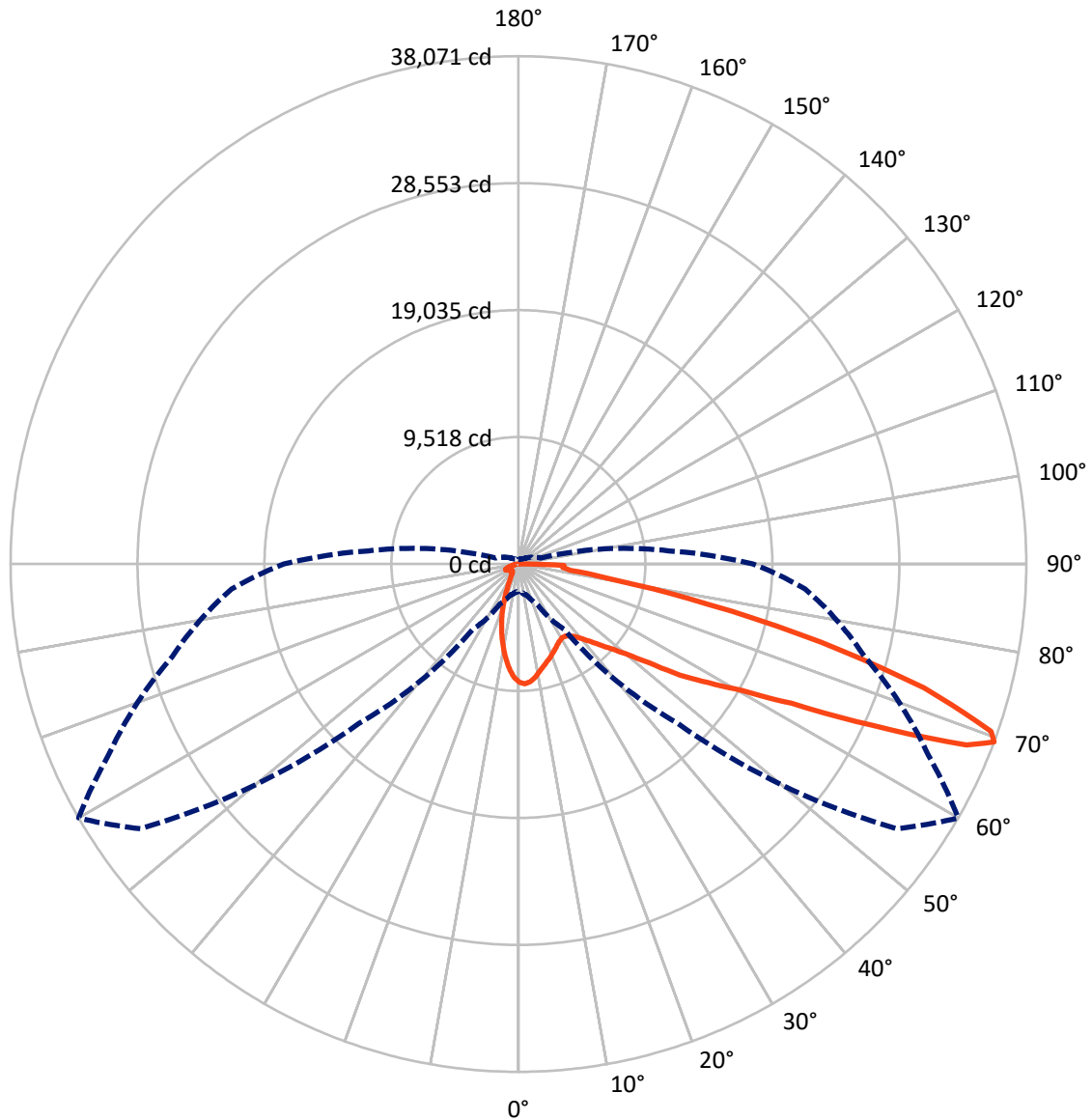
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4950.9	0.0	4950.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29848.9	0.0	29848.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	34799.8	0.0	34799.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.8	2.2
10°-20°	1597.5	4.6
20°-30°	2035.4	5.8
30°-40°	2798.2	8.0
40°-50°	4540.4	13.0
50°-60°	7281.6	20.9
60°-70°	9691.3	27.8
70°-80°	5232.5	15.0
80°-90°	873.1	2.5
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°	34799.8	100.0
0°-180°	34799.8	100.0

Coefficient of Utilization



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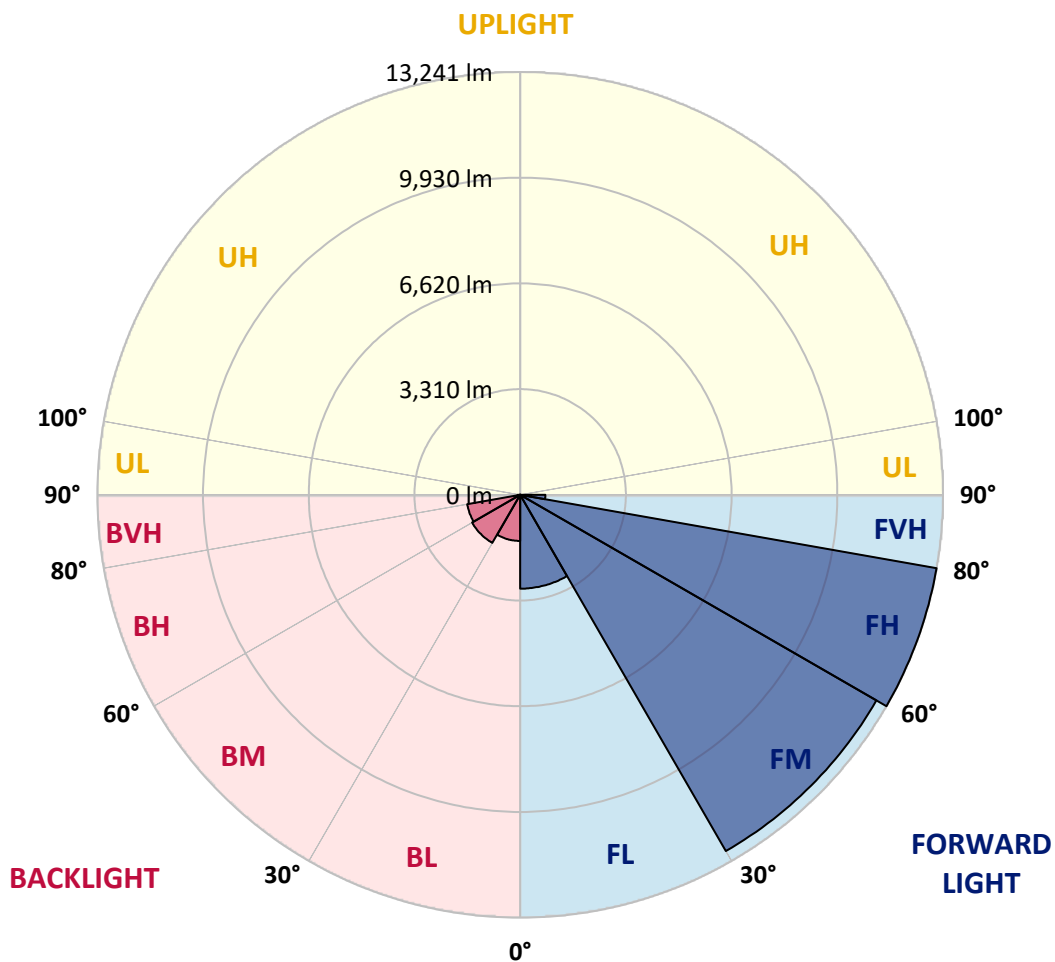
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2938.4	8.4			
FM (30°-60°)	12880.9	37.0			
FH (60°-80°)	13240.6	38.0			G5
FVH (80°-90°)	789.0	2.3			G5
BL (0°-30°)	1444.3	4.2	B3/2500		
BM (30°-60°)	1739.3	5.0	B2/2500		
BH (60°-80°)	1683.2	4.8	B3/2500		G3/2500
BVH (80°-90°)	84.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6
2.5°	9049.0	9069.3	9060.8	9055.8	9070.9	9047.4	8998.6	8983.5	8959.9	8904.5	8810.4
5°	8709.5	8770.0	8766.7	8812.0	8887.7	8907.9	8886.0	8889.3	8845.7	8776.7	8620.4
7.5°	8122.8	8148.0	8161.5	8260.6	8398.5	8509.4	8603.6	8633.8	8613.7	8554.8	8353.1
10°	7517.7	7537.8	7569.7	7685.7	7860.6	8013.5	8191.7	8294.3	8338.0	8327.8	8102.6
12.5°	6998.2	7018.4	7060.4	7191.5	7399.9	7588.2	7847.2	7974.9	8079.1	8141.3	7899.2
15°	6532.6	6576.2	6616.5	6767.8	7001.6	7248.6	7541.2	7702.5	7863.9	8003.5	7719.4
17.5°	6169.4	6213.1	6236.6	6374.5	6623.3	6925.9	7268.9	7458.7	7660.5	7889.1	7541.2
20°	5959.3	5979.5	5969.4	6046.8	6270.3	6591.4	6998.2	7218.5	7462.1	7781.6	7363.0
22.5°	5900.5	5902.1	5865.2	5856.8	6001.3	6272.0	6709.0	6976.3	7275.5	7710.9	7210.0
25°	6043.4	6038.3	5937.4	5855.1	5870.2	6028.2	6430.0	6740.9	7119.2	7695.9	7092.3
27.5°	6361.1	6376.2	6226.6	6071.9	5919.0	5913.9	6218.2	6546.0	6991.5	7764.7	7041.9
30°	6806.5	6831.8	6672.1	6475.4	6187.9	5950.9	6135.8	6430.0	6912.5	7907.6	7033.5
32.5°	7294.0	7321.0	7199.9	6993.1	6616.5	6179.5	6192.9	6440.1	6909.1	8107.7	7090.7
35°	7813.5	7843.8	7781.6	7606.8	7188.2	6601.5	6411.5	6603.1	7018.4	8413.7	7243.6
37.5°	8393.4	8440.6	8457.3	8290.9	7843.8	7157.9	6769.6	6912.5	7265.5	8838.9	7524.3
40°	9229.0	9294.5	9289.4	9050.8	8595.1	7909.4	7322.6	7359.6	7650.4	9407.2	7973.2
42.5°	10829.3	10842.8	10424.2	9904.7	9422.3	8699.4	7974.9	7944.6	8181.7	10126.6	8633.8
45°	12865.0	12809.6	11878.3	10874.7	10286.3	9607.1	8823.8	8675.9	8855.8	11004.1	9461.0
47.5°	14554.4	14426.7	13250.0	11864.8	11200.8	10594.0	9820.6	9561.8	9661.0	11999.3	10530.1
50°	15141.2	15045.4	14070.4	12688.5	12066.5	11797.6	11047.9	10681.3	10708.2	13186.1	11782.4
52.5°	15015.1	15001.7	14351.1	13231.5	12876.8	13061.8	12786.1	12290.1	12027.9	14504.0	13134.0
55°	14717.5	14746.1	14510.8	13863.5	13803.1	14282.1	15057.1	14690.6	13875.3	15833.7	14530.9
57.5°	13683.7	13757.7	14275.4	14658.7	15294.1	16006.9	16886.1	16781.8	15864.0	17271.1	16191.8
60°	11024.2	11195.8	12584.3	14504.0	16829.0	19058.0	19451.4	19209.3	17914.9	19054.6	18385.6
62.5°	7724.4	7902.6	9553.3	12557.4	16576.8	22504.1	24037.3	22993.3	20860.1	21682.2	21224.9
65°	4135.4	4221.1	5481.9	8712.9	13994.7	23215.3	30739.6	29151.0	25523.3	24921.4	23654.0
67.5°	2281.2	2328.2	2810.7	4399.3	8963.3	20443.2	35009.5	36209.7	31351.5	27078.2	23211.9
69°	2062.7	2106.4	2422.3	3331.9	5998.0	16902.9	34592.5	38070.6	33906.6	26864.7	21577.9
70°	2017.3	2057.6	2341.7	3071.3	4854.8	13932.5	33195.6	37594.9	34515.2	26099.9	20152.3
72.5°	1815.5	1859.2	2134.9	2758.6	4148.8	6946.0	26294.8	31786.9	31336.4	22630.2	15285.7
75°	1692.8	1733.2	2200.5	2701.4	3972.3	4395.9	17334.9	23427.0	23035.3	15830.4	8242.1
77.5°	724.6	721.2	1020.4	2286.2	4031.1	4256.4	9314.7	14635.2	13352.6	6766.2	2366.9
80°	484.2	475.8	484.2	672.4	3696.6	4279.9	4880.1	7428.6	5611.3	1724.8	1166.7
82.5°	416.9	410.2	425.3	410.2	1299.5	4885.1	4148.8	3950.4	2667.9	980.1	578.3
85°	280.7	268.9	366.4	368.2	613.6	4340.5	4673.4	3336.9	2158.4	581.6	285.8
87.5°	134.5	131.1	213.5	260.5	359.8	1763.5	5243.1	3419.2	2176.9	297.6	136.2
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°	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6	8867.6
2.5°	8781.7	8712.9	8645.6	8565.0	8480.9	8386.8	8339.7	8292.6	8280.8	8267.4	8220.3
5°	8539.7	8442.2	8274.1	8089.2	7894.2	7704.3	7559.6	7468.9	7399.9	7364.6	7302.4
7.5°	8227.0	8084.2	7790.0	7470.6	7142.8	6843.5	6584.6	6421.6	6266.9	6194.7	6112.2
10°	7929.5	7716.0	7258.8	6788.1	6317.3	5865.2	5439.8	5139.0	4871.7	4722.0	4616.2
12.5°	7674.0	7381.5	6747.7	6110.6	5465.1	4821.3	4184.1	3683.1	3264.5	3044.4	2931.8
15°	7425.2	7072.2	6261.9	5453.4	4624.6	3748.7	2911.5	2343.4	1997.1	1859.2	1812.2
17.5°	7199.9	6747.7	5774.4	4791.0	3757.1	2698.0	1956.7	1644.1	1511.3	1465.9	1450.7
20°	6956.2	6419.9	5268.4	4098.4	2852.7	1886.1	1528.1	1390.2	1336.4	1323.0	1316.2
22.5°	6720.8	6097.2	4784.2	3357.0	2049.2	1455.8	1312.9	1255.8	1247.3	1259.2	1259.2
25°	6520.8	5808.0	4261.4	2582.1	1504.6	1225.5	1175.1	1161.6	1193.6	1237.3	1245.6
27.5°	6371.1	5571.0	3705.0	1906.3	1198.6	1065.8	1064.1	1086.0	1164.9	1249.0	1265.8
30°	6268.6	5345.7	3110.0	1375.1	1005.3	938.0	964.9	1012.0	1128.0	1247.3	1279.3
32.5°	6216.5	5179.3	2489.7	1064.1	860.7	823.7	869.1	926.3	1040.5	1151.5	1193.6
35°	6256.9	5056.5	1904.6	887.6	759.8	731.2	778.4	833.8	901.0	948.1	980.1
37.5°	6408.2	5007.9	1437.2	795.1	690.9	664.0	701.0	732.9	759.8	773.2	788.4
40°	6734.3	5059.9	1151.5	748.1	652.2	618.6	633.7	645.5	662.4	675.8	682.5
42.5°	7215.1	5216.2	1032.2	729.6	632.1	583.3	579.9	585.0	606.8	632.1	637.1
45°	7887.5	5492.0	1023.8	741.3	622.0	554.7	539.6	546.4	579.9	618.6	625.3
47.5°	8746.4	5912.2	1091.0	776.6	630.3	539.6	514.4	522.8	564.9	616.9	625.3
50°	9787.1	6498.9	1203.6	828.8	667.4	543.0	506.0	511.1	554.7	611.9	620.3
52.5°	11015.9	7331.1	1326.4	879.2	706.0	564.9	512.7	500.9	541.3	591.8	601.8
55°	12382.6	8398.5	1452.4	924.5	726.2	591.8	526.2	487.5	516.1	558.1	566.5
57.5°	14060.3	9891.2	1671.0	968.3	739.7	610.2	539.6	474.0	484.2	514.4	521.1
60°	16331.3	12002.7	2055.9	1040.5	769.9	616.9	538.0	462.3	452.2	469.0	472.4
62.5°	19053.0	14295.6	2377.0	1131.4	820.3	622.0	527.8	453.9	425.3	425.3	428.6
65°	20668.4	14909.2	2198.8	1207.0	862.3	616.9	516.1	445.5	405.1	386.7	388.3
67.5°	19298.4	13112.2	1884.5	1222.1	860.7	593.4	497.6	430.4	384.9	356.4	354.7
69°	17582.1	11313.4	1743.2	1181.8	820.3	563.1	474.0	413.6	369.8	339.6	337.9
70°	16198.5	10215.7	1650.7	1138.0	776.6	541.3	455.5	398.4	358.0	329.5	326.1
72.5°	11777.4	6693.9	1410.4	978.4	640.5	453.9	393.3	349.6	319.4	302.6	299.2
75°	5885.3	3192.3	1144.8	793.5	490.9	363.1	322.7	292.5	277.3	274.0	272.3
77.5°	1933.2	1462.5	818.7	591.8	364.8	284.1	260.5	238.8	235.4	245.4	242.0
80°	1062.4	850.6	519.5	391.7	248.8	208.5	205.1	193.3	198.4	215.1	211.9
82.5°	541.3	442.1	321.1	235.4	168.1	149.7	163.1	156.3	163.1	178.2	176.5
85°	267.3	242.0	203.4	142.9	111.0	95.9	116.0	121.0	124.4	136.2	136.2
87.5°	154.7	142.9	107.6	67.2	55.4	50.4	67.2	65.6	77.3	84.1	82.3
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)