

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: P269473

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269473
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-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA 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: 36581.8 lumens
Efficiency: N/A
Efficacy: 93.6 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

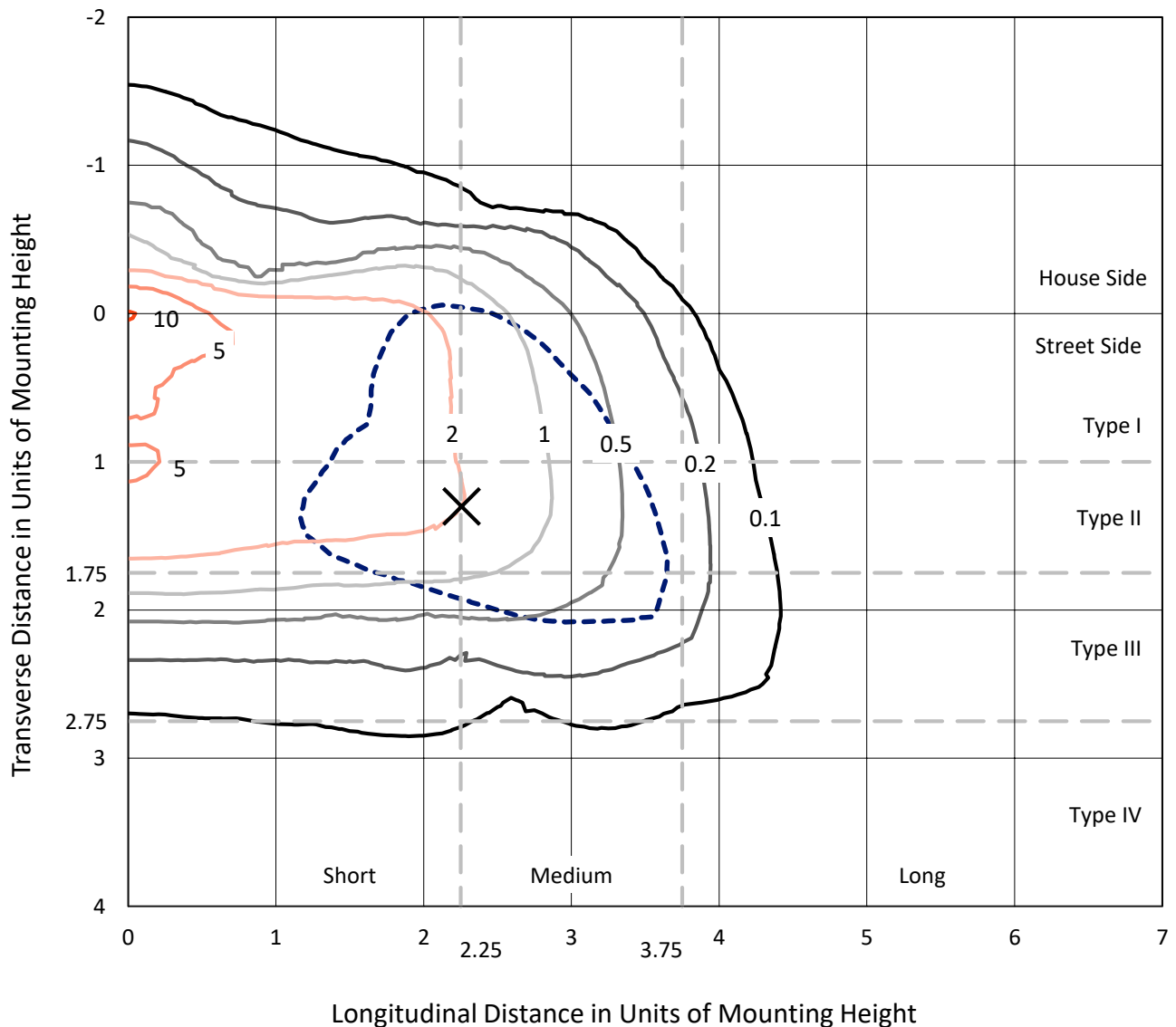
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

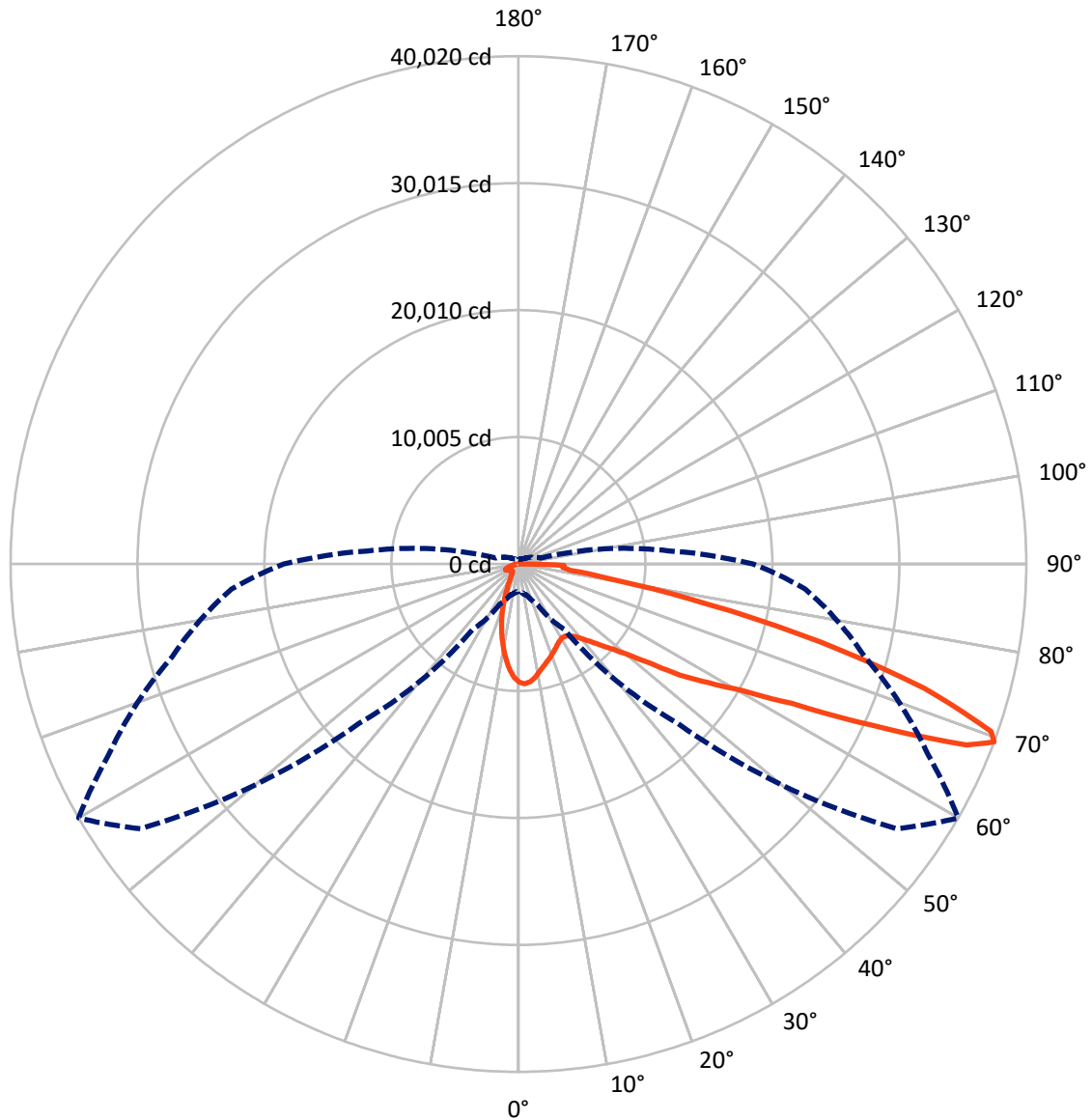
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 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	5204.4	0.0	5204.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	31377.4	0.0	31377.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	36581.8	0.0	36581.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.2	2.2
10°-20°	1679.3	4.6
20°-30°	2139.7	5.8
30°-40°	2941.5	8.0
40°-50°	4772.9	13.0
50°-60°	7654.5	20.9
60°-70°	10187.5	27.8
70°-80°	5500.5	15.0
80°-90°	917.8	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°	36581.8	100.0
0°-180°	36581.8	100.0



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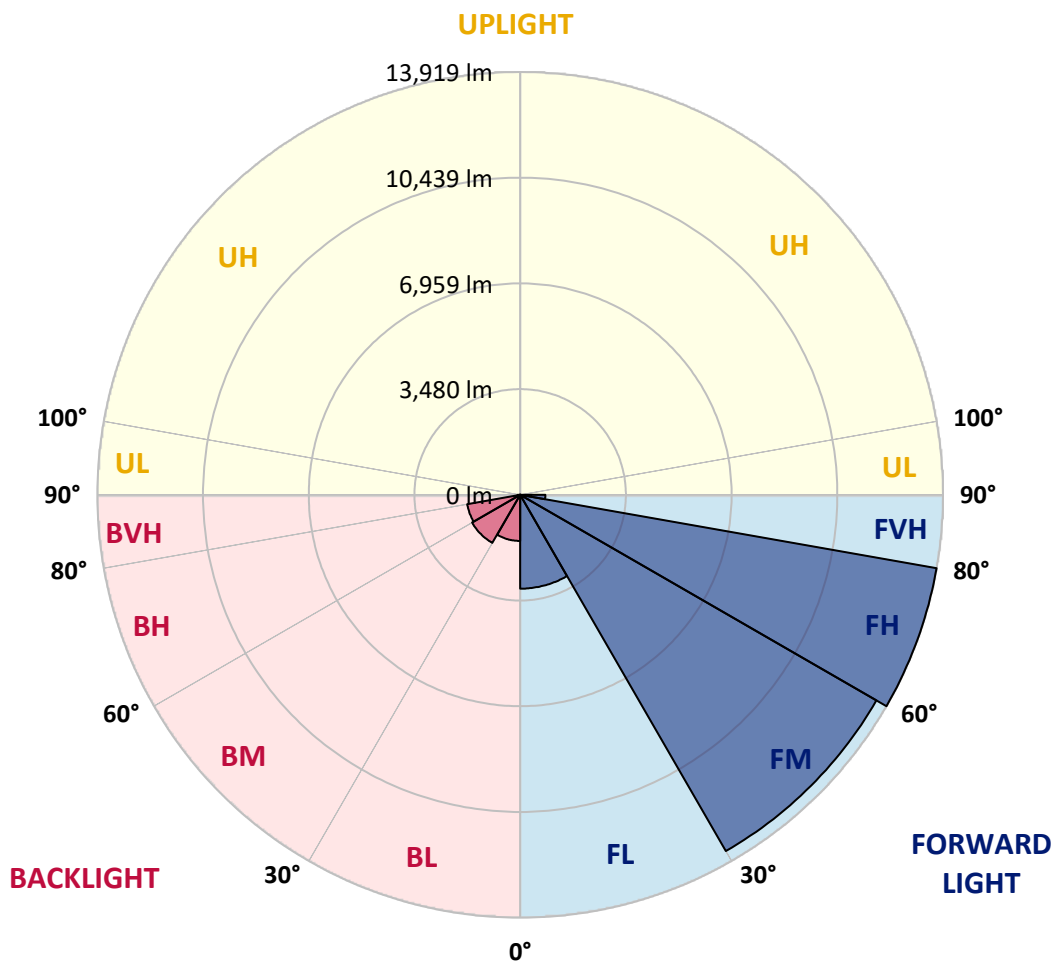
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3088.8	8.4			
FM (30°-60°)	13540.5	37.0			
FH (60°-80°)	13918.7	38.0			G5
FVH (80°-90°)	829.4	2.3			G5
BL (0°-30°)	1518.3	4.2	B3/2500		
BM (30°-60°)	1828.4	5.0	B2/2500		
BH (60°-80°)	1769.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	88.4	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°	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6
2.5°	9512.4	9533.6	9524.8	9519.5	9535.4	9510.6	9459.4	9443.5	9418.8	9360.5	9261.5
5°	9155.4	9219.0	9215.5	9263.3	9342.8	9364.0	9341.0	9344.6	9298.6	9226.1	9061.8
7.5°	8538.7	8565.2	8579.4	8683.6	8828.5	8945.2	9044.1	9075.9	9054.7	8992.9	8780.8
10°	7902.6	7923.8	7957.4	8079.3	8263.1	8423.9	8611.2	8718.9	8764.9	8754.3	8517.5
12.5°	7356.6	7377.8	7421.9	7559.7	7779.0	7976.8	8249.0	8383.3	8492.8	8558.2	8303.8
15°	6867.1	6912.9	6955.3	7114.4	7360.2	7619.9	7927.4	8097.0	8266.7	8413.3	8114.7
17.5°	6485.4	6531.2	6556.0	6700.9	6962.5	7280.6	7641.1	7840.8	8052.8	8293.2	7927.4
20°	6264.5	6285.7	6275.1	6356.3	6591.4	6928.8	7356.6	7588.1	7844.3	8180.1	7740.1
22.5°	6202.5	6204.4	6165.4	6156.7	6308.6	6593.1	7052.7	7333.6	7648.1	8105.8	7579.2
25°	6352.9	6347.6	6241.6	6154.8	6170.7	6337.0	6759.2	7086.2	7483.8	8089.9	7455.6
27.5°	6686.9	6702.8	6545.4	6382.8	6222.0	6216.7	6536.5	6881.1	7349.5	8162.4	7402.6
30°	7155.1	7181.6	7013.7	6806.9	6504.7	6255.6	6450.0	6759.2	7266.4	8312.6	7393.7
32.5°	7667.6	7695.8	7568.6	7351.2	6955.3	6496.0	6510.0	6769.8	7262.8	8522.8	7453.7
35°	8213.7	8245.5	8180.1	7996.3	7556.3	6939.4	6739.9	6941.3	7377.8	8844.4	7614.6
37.5°	8823.2	8872.7	8890.4	8715.4	8245.5	7524.5	7116.3	7266.4	7637.5	9291.6	7909.7
40°	9701.5	9770.4	9765.1	9514.2	9035.3	8314.4	7697.5	7736.6	8042.2	9888.8	8381.5
42.5°	11383.9	11398.0	10958.0	10412.0	9904.7	9144.8	8383.3	8351.5	8600.6	10645.2	9075.9
45°	13523.9	13465.6	12486.5	11431.6	10813.1	10099.1	9275.7	9120.1	9309.2	11567.7	9945.3
47.5°	15299.8	15165.5	13928.5	12472.3	11774.4	11136.5	10323.5	10051.5	10155.7	12613.7	11069.3
50°	15916.4	15815.7	14790.9	13338.3	12684.4	12401.7	11613.6	11228.4	11256.7	13861.3	12385.8
52.5°	15783.9	15769.8	15086.0	13909.0	13536.2	13730.6	13440.8	12919.5	12643.9	15246.8	13806.6
55°	15471.1	15501.2	15253.8	14573.6	14509.9	15013.6	15828.1	15442.9	14585.9	16644.5	15275.0
57.5°	14384.4	14462.2	15006.5	15409.3	16077.3	16826.6	17750.8	17641.3	16676.3	18155.5	17020.9
60°	11588.9	11769.1	13228.7	15246.8	17690.7	20033.9	20447.4	20193.0	18832.2	20030.3	19327.0
62.5°	8120.0	8307.3	10042.6	13200.5	17425.6	23656.5	25268.2	24170.8	21928.3	22792.3	22311.7
65°	4347.2	4437.3	5762.5	9158.9	14711.4	24404.1	32313.7	30643.7	26830.2	26197.6	24865.3
67.5°	2397.9	2447.4	2954.6	4624.6	9422.3	21490.1	36802.2	38063.9	32956.8	28464.9	24400.5
69°	2168.2	2214.2	2546.4	3502.4	6305.2	17768.5	36363.8	40020.1	35642.9	28240.5	22682.8
70°	2120.5	2162.9	2461.6	3228.6	5103.5	14646.0	34895.5	39520.0	36282.6	27436.5	21184.3
72.5°	1908.4	1954.4	2244.2	2899.9	4361.4	7301.8	27641.3	33414.7	32940.9	23789.1	16068.5
75°	1779.5	1821.9	2313.1	2839.8	4175.7	4621.1	18222.6	24626.7	24214.9	16641.0	8664.2
77.5°	761.7	758.1	1072.7	2403.2	4237.6	4474.4	9791.6	15384.6	14036.2	7112.7	2488.1
80°	508.9	500.0	508.9	706.8	3885.9	4499.2	5130.0	7809.0	5898.7	1813.0	1226.4
82.5°	438.3	431.1	447.0	431.1	1366.1	5135.3	4361.4	4152.8	2804.4	1030.3	608.0
85°	295.2	282.7	385.3	387.0	645.1	4562.8	4912.7	3507.7	2268.9	611.4	300.5
87.5°	141.4	137.8	224.4	274.0	378.1	1853.7	5511.7	3594.4	2288.4	312.8	143.1
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°	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6	9321.6
2.5°	9231.4	9158.9	9088.3	9003.5	8915.1	8816.1	8766.6	8717.2	8704.8	8690.7	8641.2
5°	8977.0	8874.5	8697.7	8503.4	8298.5	8098.7	7946.8	7851.4	7779.0	7741.9	7676.3
7.5°	8648.3	8498.1	8188.9	7853.2	7508.6	7193.9	6921.8	6750.5	6587.8	6511.9	6425.2
10°	8335.6	8111.2	7630.5	7135.6	6640.9	6165.4	5718.4	5402.0	5121.1	4963.9	4852.6
12.5°	8066.9	7759.5	7093.2	6423.5	5744.9	5068.1	4398.5	3871.8	3431.7	3200.2	3081.8
15°	7805.5	7434.4	6582.5	5732.5	4861.4	3940.7	3060.6	2463.4	2099.3	1954.4	1904.9
17.5°	7568.6	7093.2	6070.0	5036.3	3949.5	2836.3	2056.8	1728.2	1588.7	1541.0	1525.1
20°	7312.4	6748.6	5538.2	4308.2	2998.8	1982.6	1606.3	1461.5	1404.9	1390.8	1383.7
22.5°	7065.0	6409.3	5029.3	3528.9	2154.1	1530.4	1380.2	1320.1	1311.2	1323.7	1323.7
25°	6854.6	6105.4	4479.7	2714.3	1581.6	1288.2	1235.2	1221.1	1254.7	1300.6	1309.4
27.5°	6697.5	5856.3	3894.7	2003.8	1260.0	1120.4	1118.6	1141.6	1224.6	1313.0	1330.7
30°	6589.5	5619.4	3269.2	1445.6	1056.8	986.1	1014.4	1063.9	1185.8	1311.2	1344.9
32.5°	6534.8	5444.4	2617.1	1118.6	904.8	865.8	913.5	973.8	1093.9	1210.5	1254.7
35°	6577.2	5315.5	2002.1	933.0	798.8	768.7	818.1	876.4	947.3	996.7	1030.3
37.5°	6736.3	5264.2	1510.9	835.9	726.3	698.1	736.9	770.4	798.8	812.8	828.7
40°	7079.2	5319.0	1210.5	786.3	685.6	650.4	666.3	678.6	696.2	710.4	717.4
42.5°	7584.5	5483.4	1085.1	767.0	664.4	613.3	609.7	615.0	637.9	664.4	669.7
45°	8291.4	5773.1	1076.2	779.3	653.8	583.2	567.3	574.3	609.7	650.4	657.4
47.5°	9194.3	6215.0	1146.9	816.4	662.7	567.3	540.7	549.6	593.8	648.5	657.4
50°	10288.2	6831.7	1265.3	871.1	701.5	570.9	531.8	537.1	583.2	643.2	652.1
52.5°	11580.1	7706.4	1394.3	924.1	742.2	593.8	539.0	526.5	569.0	622.0	632.6
55°	13016.7	8828.5	1526.8	972.0	763.4	622.0	553.0	512.5	542.4	586.8	595.5
57.5°	14780.3	10397.8	1756.5	1017.9	777.6	641.5	567.3	498.3	508.9	540.7	547.7
60°	17167.7	12617.2	2161.2	1093.9	809.4	648.5	565.5	486.0	475.4	493.0	496.6
62.5°	20028.6	15027.7	2498.7	1189.3	862.4	653.8	554.9	477.1	447.0	447.0	450.6
65°	21726.9	15672.6	2311.3	1268.8	906.5	648.5	542.4	468.2	425.8	406.5	408.2
67.5°	20286.7	13783.7	1980.9	1284.7	904.8	623.9	523.1	452.3	404.6	374.7	372.8
69°	18482.4	11892.8	1832.5	1242.3	862.4	592.1	498.3	434.7	388.7	356.9	355.2
70°	17028.0	10738.8	1735.3	1196.4	816.4	569.0	478.8	418.8	376.4	346.3	342.9
72.5°	12380.5	7036.8	1482.7	1028.5	673.3	477.1	413.5	367.5	335.7	318.1	314.5
75°	6186.6	3355.8	1203.4	834.0	515.9	381.7	339.3	307.5	291.6	288.0	286.3
77.5°	2032.1	1537.4	860.5	622.0	383.4	298.6	274.0	250.9	247.5	258.1	254.5
80°	1116.9	894.2	546.0	411.8	261.5	219.1	215.7	203.2	208.5	226.3	222.7
82.5°	569.0	464.8	337.6	247.5	176.6	157.3	171.3	164.3	171.3	187.2	185.5
85°	281.0	254.5	213.8	150.1	116.6	100.7	121.9	127.2	130.8	143.1	143.1
87.5°	162.6	150.1	113.0	70.6	58.3	53.0	70.6	68.9	81.2	88.4	86.5
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)