

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: P191878

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38028 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

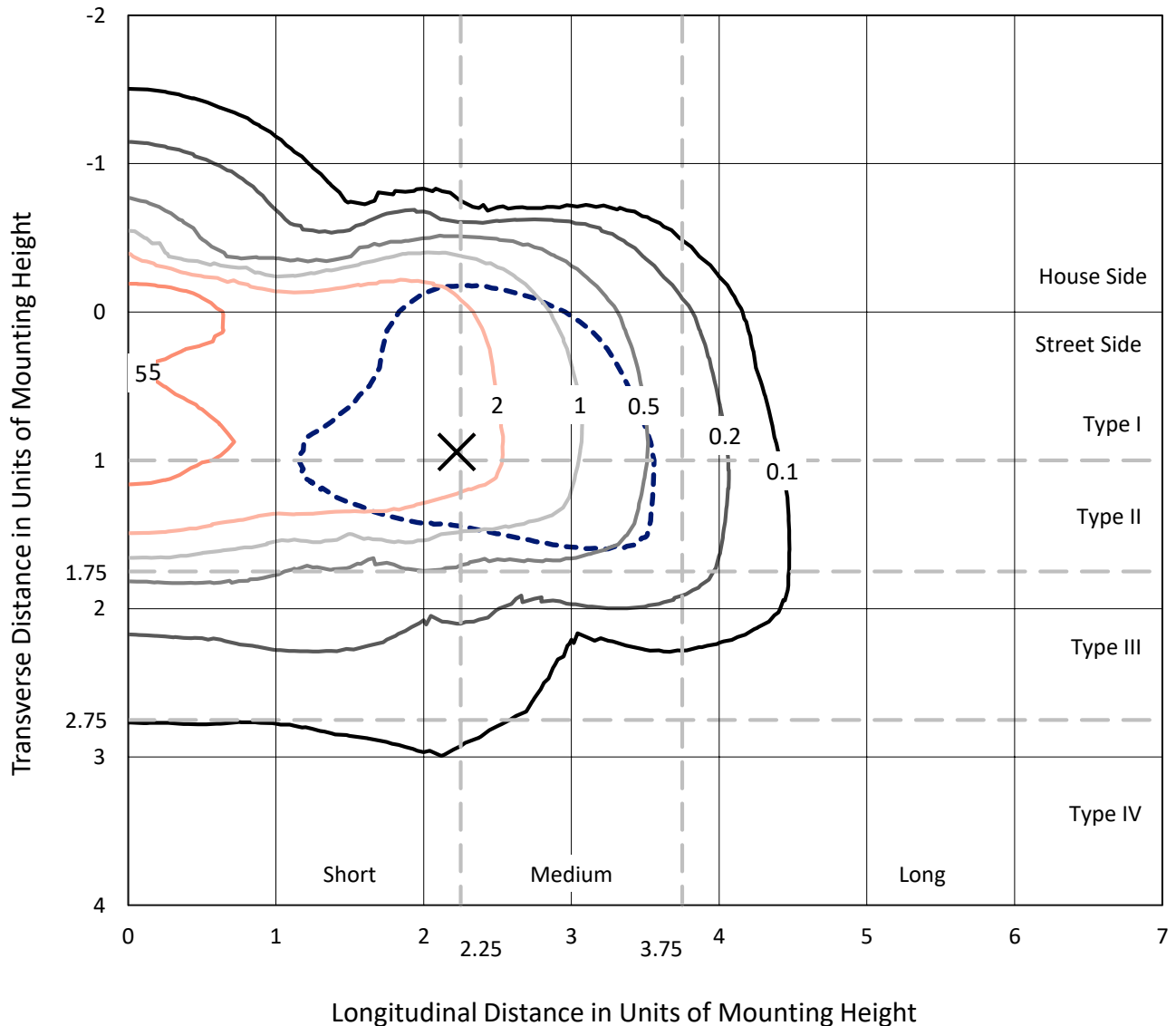
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

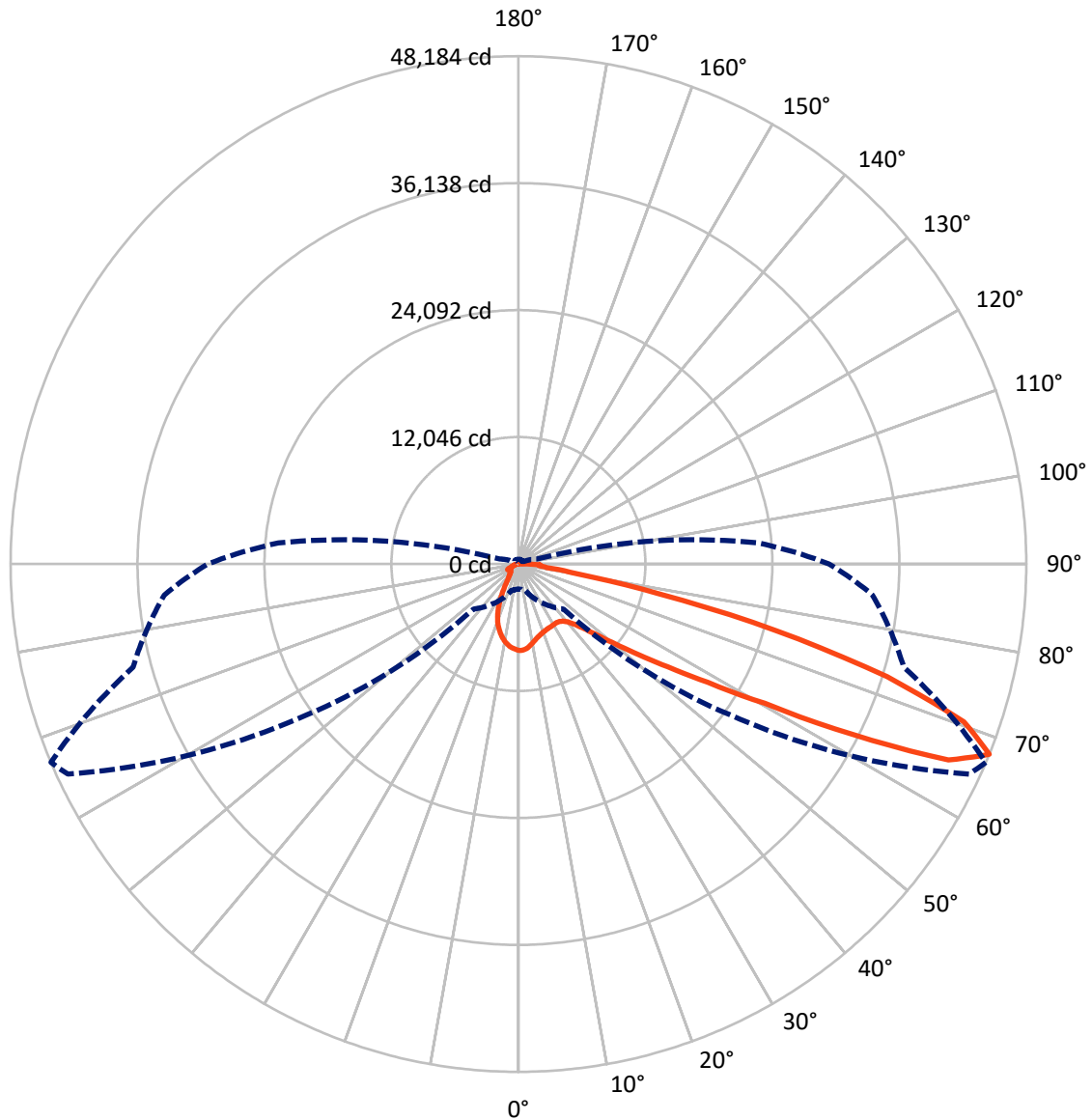
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6300.8	0.0	6300.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	31727.2	0.0	31727.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	38028.0	0.0	38028.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.8	1.8
10°-20°	1619.2	4.3
20°-30°	2194.9	5.8
30°-40°	3120.3	8.2
40°-50°	5220.3	13.7
50°-60°	8258.5	21.7
60°-70°	10520.5	27.7
70°-80°	5510.6	14.5
80°-90°	883.8	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°	38028.0	100.0
0°-180°	38028.0	100.0



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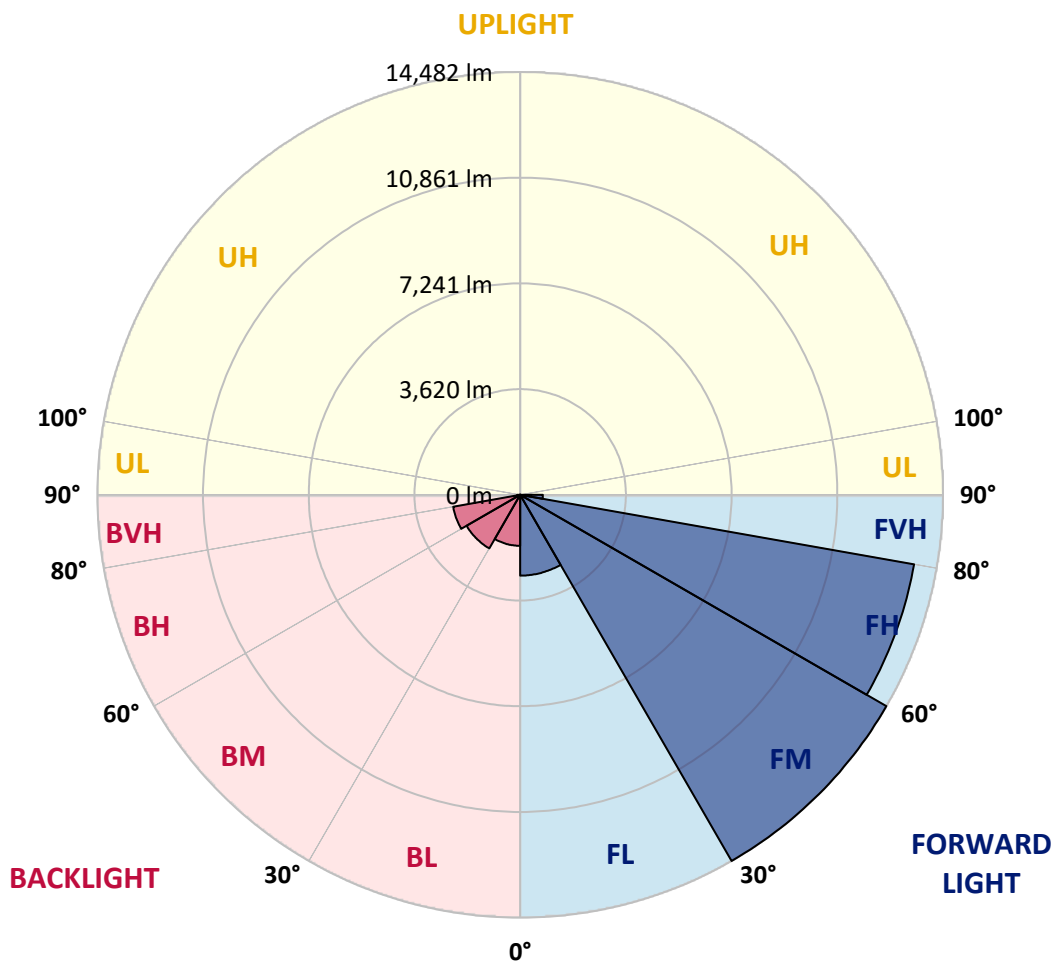
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2767.5	7.3			
FM (30°-60°)	14481.9	38.1			
FH (60°-80°)	13700.7	36.0			G5
FVH (80°-90°)	777.1	2.0			G5
BL (0°-30°)	1746.4	4.6	B3/2500		
BM (30°-60°)	2117.3	5.6	B2/2500		
BH (60°-80°)	2330.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	106.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5
2.5°	7865.0	7878.1	7919.4	7945.6	8063.8	8114.4	8150.0	8185.7	8191.3	8208.2	8191.3
5°	7039.9	7068.0	7144.9	7231.1	7459.9	7640.0	7829.4	8026.3	8061.9	8189.4	8225.1
7.5°	6400.4	6392.9	6456.6	6559.8	6794.2	7043.6	7375.5	7767.5	7844.4	8131.3	8270.1
10°	5933.4	5927.8	5995.3	6102.2	6325.4	6561.7	6936.7	7473.1	7581.8	8039.4	8313.2
12.5°	5588.4	5590.3	5657.8	5775.9	6002.8	6241.0	6621.7	7188.0	7326.8	7932.5	8358.2
15°	5359.6	5374.6	5429.0	5554.6	5775.9	6014.1	6387.3	6974.2	7129.9	7848.1	8408.8
17.5°	5282.7	5307.1	5325.8	5417.7	5607.1	5845.3	6211.0	6816.7	6981.7	7790.0	8453.8
20°	5354.0	5382.1	5346.5	5378.4	5498.4	5708.4	6072.2	6692.9	6861.7	7724.3	8459.5
22.5°	5659.6	5685.9	5580.9	5489.0	5481.5	5609.0	5957.8	6595.4	6769.8	7675.6	8461.3
25°	6197.9	6214.7	6038.5	5824.7	5616.5	5573.4	5877.2	6527.9	6713.6	7632.5	8425.7
27.5°	6858.0	6871.1	6668.6	6353.5	5935.3	5657.8	5849.0	6488.5	6681.7	7595.0	8365.7
30°	7660.6	7722.5	7450.6	7053.0	6443.5	5907.2	5905.3	6467.9	6646.1	7531.2	8247.6
32.5°	8482.0	8508.2	8320.7	7917.5	7128.0	6346.0	6062.8	6482.9	6636.7	7454.3	8097.5
35°	9314.6	9348.4	9226.5	8902.0	8063.8	6989.2	6370.4	6571.0	6694.8	7428.0	7992.5
37.5°	10392.9	10437.9	10269.1	9894.1	9202.1	7861.2	6882.3	6792.3	6873.0	7503.1	7960.6
40°	12097.5	12076.9	11583.7	11024.9	10447.3	8977.0	7613.7	7167.4	7214.3	7745.0	8058.1
42.5°	14081.6	14031.0	13181.5	12303.8	11816.2	10327.3	8581.4	7818.1	7808.7	8221.3	8401.3
45°	15664.4	15623.1	14858.0	13775.9	13385.9	11865.0	9832.2	8787.6	8718.3	8977.0	9035.2
47.5°	16521.4	16523.2	16082.5	15199.3	15189.9	13819.1	11439.3	10190.4	10070.3	10192.2	10130.4
50°	16221.3	16260.7	16213.8	15932.5	16836.4	16380.7	13537.8	12146.3	11904.4	12024.4	11786.2
52.5°	14769.8	14820.5	15098.0	15529.3	17528.4	19476.8	16620.8	14576.7	14295.4	14252.3	13987.8
55°	12196.9	12258.8	12825.2	13997.2	16952.7	21556.5	21485.3	17674.7	17226.5	16819.5	16707.0
57.5°	8407.0	8510.1	9421.5	11161.8	15090.5	22184.8	27278.1	22091.0	21179.6	19758.1	19784.4
60°	4738.9	4858.9	5933.4	7514.3	11332.4	21502.1	31685.0	28780.2	26856.1	23199.3	23394.3
62.5°	3013.6	3143.0	3958.8	5220.8	6799.8	17826.6	33490.9	38079.8	35636.3	27441.2	27632.5
65°	2439.8	2496.0	2880.5	4309.4	4937.7	10739.8	32120.1	45740.4	44829.0	32825.2	31932.5
67.5°	2381.6	2400.4	2599.2	3617.4	4735.1	6036.6	25620.3	47173.1	48183.9	37852.9	33723.5
70°	2353.5	2419.1	2929.2	3452.4	4534.5	5091.4	15396.2	43246.2	44842.1	39167.4	31340.0
72.5°	1142.1	1138.3	1474.0	3122.4	5108.3	5280.8	7910.0	34991.2	36592.7	33933.5	25753.4
75°	920.8	842.0	804.5	1143.9	4911.4	5453.4	5040.8	24076.9	25235.9	22751.1	15831.3
77.5°	873.9	780.1	714.5	716.4	2076.0	5783.4	4270.0	13325.9	13663.4	10276.6	4337.6
80°	723.9	637.6	590.7	665.7	1005.2	5507.7	4617.0	6031.0	5534.0	2524.1	1444.0
82.5°	502.6	457.6	444.4	558.8	804.5	3925.0	5369.0	3240.5	2717.3	1263.9	890.8
85°	320.7	273.8	303.8	406.9	626.3	1811.5	5530.2	2526.0	2008.4	802.6	502.6
87.5°	148.1	120.0	150.0	225.0	408.8	624.5	5262.1	2837.3	2068.5	423.8	316.9
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°	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5	8202.5
2.5°	8206.3	8170.7	8142.5	8090.0	8031.9	7975.6	7925.0	7861.2	7842.5	7825.6	7851.9
5°	8232.6	8196.9	8093.8	7932.5	7754.4	7587.4	7420.5	7278.0	7189.9	7141.1	7169.3
7.5°	8271.9	8221.3	8007.5	7711.2	7390.5	7098.0	6796.1	6554.2	6376.0	6291.6	6316.0
10°	8307.6	8210.0	7861.2	7416.8	6948.0	6512.9	6036.6	5642.8	5350.2	5196.4	5234.0
12.5°	8322.6	8166.9	7656.8	7049.2	6406.0	5768.4	5067.1	4478.2	4058.1	3904.4	3872.5
15°	8337.6	8118.2	7431.8	6631.0	5751.5	4849.5	3866.9	3161.7	2812.9	2736.1	2719.2
17.5°	8341.3	8033.8	7176.8	6177.2	4984.5	3756.2	2644.2	2196.0	2197.8	2321.6	2336.6
20°	8301.9	7908.1	6867.3	5612.8	4065.6	2597.3	1815.3	1738.4	2021.6	2331.0	2368.5
22.5°	8211.9	7741.2	6516.7	4954.5	3013.6	1710.3	1404.6	1489.0	1854.7	2233.5	2276.6
25°	8097.5	7538.7	6102.2	4191.3	1995.3	1222.7	1177.7	1280.8	1528.4	1781.5	1805.9
27.5°	7941.9	7298.7	5637.1	3317.4	1295.8	1007.0	1037.0	1106.4	1207.7	1320.2	1331.5
30°	7741.2	7011.7	5140.2	2419.1	978.9	905.8	948.9	986.4	1029.5	1093.3	1098.9
32.5°	7510.6	6736.1	4630.1	1670.9	868.3	853.3	887.0	905.8	939.5	978.9	982.7
35°	7317.4	6473.5	4101.3	1181.4	821.4	813.9	836.4	843.9	875.8	918.9	922.6
37.5°	7206.8	6259.7	3555.6	952.7	789.5	778.2	791.4	791.4	836.4	900.1	909.5
40°	7214.3	6141.6	3009.9	860.8	763.2	748.2	750.1	750.1	808.3	877.6	883.3
42.5°	7418.7	6171.6	2526.0	825.1	742.6	725.7	716.4	722.0	770.7	815.8	819.5
45°	7898.7	6383.5	2072.2	802.6	722.0	716.4	695.7	693.9	712.6	733.2	733.2
47.5°	8686.4	6801.7	1764.7	787.6	705.1	703.2	678.9	654.5	652.6	660.1	660.1
50°	9967.2	7521.8	1558.4	770.7	693.9	678.9	650.7	613.2	600.1	605.7	605.7
52.5°	11887.5	8806.4	1479.6	748.2	669.5	645.1	613.2	575.7	564.5	566.3	566.3
55°	14406.0	10779.2	1468.4	722.0	643.2	603.8	577.6	549.5	536.3	540.1	540.1
57.5°	17483.4	13507.8	1669.0	680.7	607.6	562.6	547.6	528.8	519.5	525.1	523.2
60°	21224.6	17078.3	2475.4	637.6	572.0	525.1	525.1	510.1	502.6	508.2	506.3
62.5°	25534.0	21179.6	3480.6	605.7	534.5	495.1	502.6	495.1	487.6	491.3	489.5
65°	29355.9	23851.9	3259.3	581.3	497.0	466.9	480.1	476.3	470.7	474.4	472.6
67.5°	29466.5	22861.7	1830.3	555.1	461.3	438.8	457.6	455.7	451.9	455.7	453.8
70°	26297.3	19304.3	1031.4	506.3	423.8	405.1	431.3	429.4	425.7	433.2	431.3
72.5°	21069.0	14008.5	753.9	446.3	386.3	369.4	399.4	397.6	397.6	408.8	403.2
75°	12123.8	7208.6	602.0	382.6	346.9	333.8	360.1	361.9	365.7	380.7	369.4
77.5°	3456.2	2246.6	491.3	324.4	298.2	292.5	318.8	322.6	324.4	341.3	326.3
80°	1284.6	1035.2	405.1	271.9	243.8	245.7	270.0	275.7	277.5	294.4	275.7
82.5°	819.5	682.6	328.2	210.0	191.3	189.4	219.4	226.9	226.9	228.8	217.5
85°	478.2	408.8	247.5	151.9	135.0	129.4	163.2	176.3	170.7	166.9	159.4
87.5°	320.7	281.3	151.9	84.4	73.1	69.4	95.6	105.0	101.3	95.6	90.0
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)