

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: P191156

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191156  
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-08-LED-E1-SL3-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA 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: 32154.4 lumens  
Efficiency: N/A  
Efficacy: 125.1 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

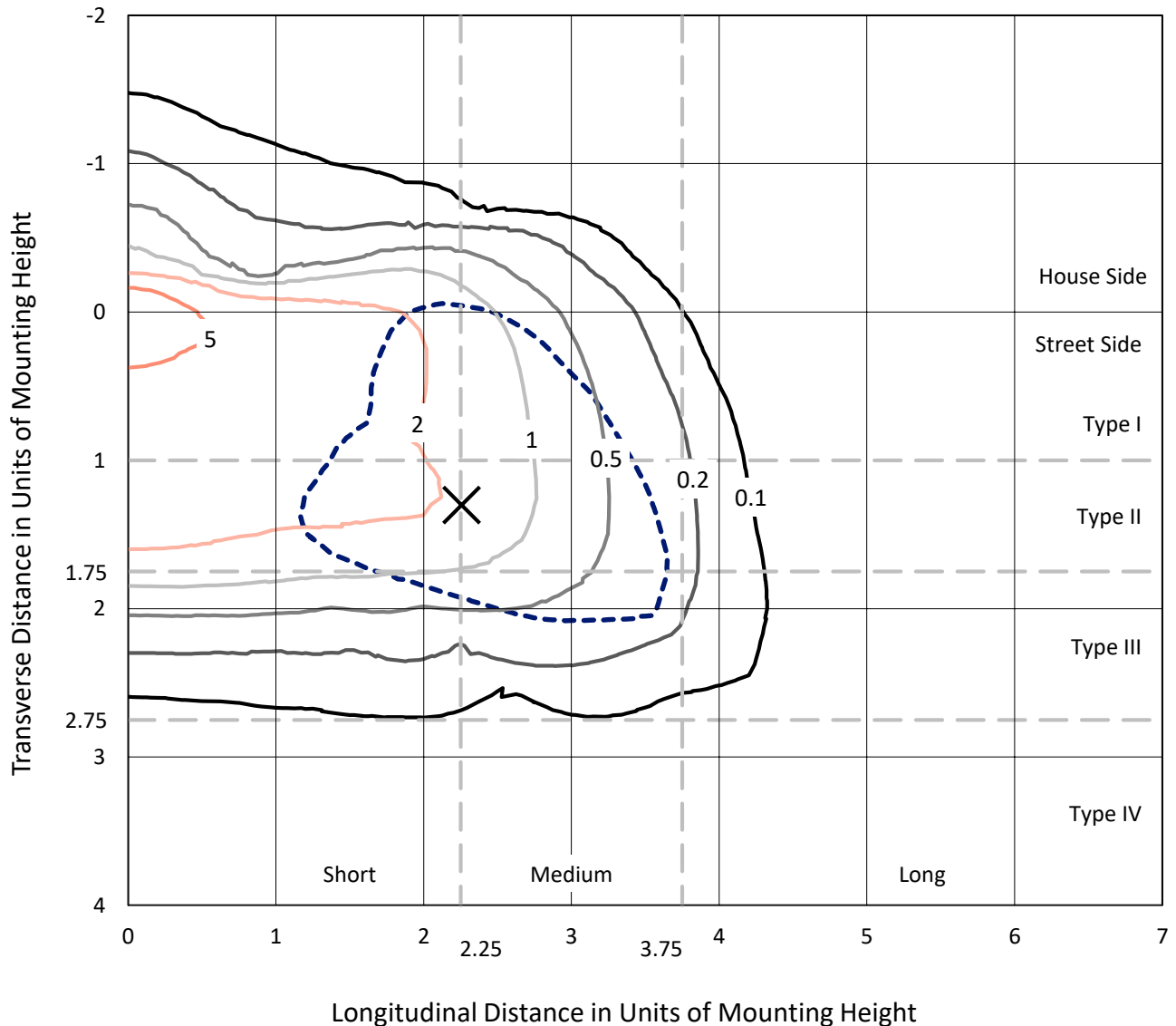
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

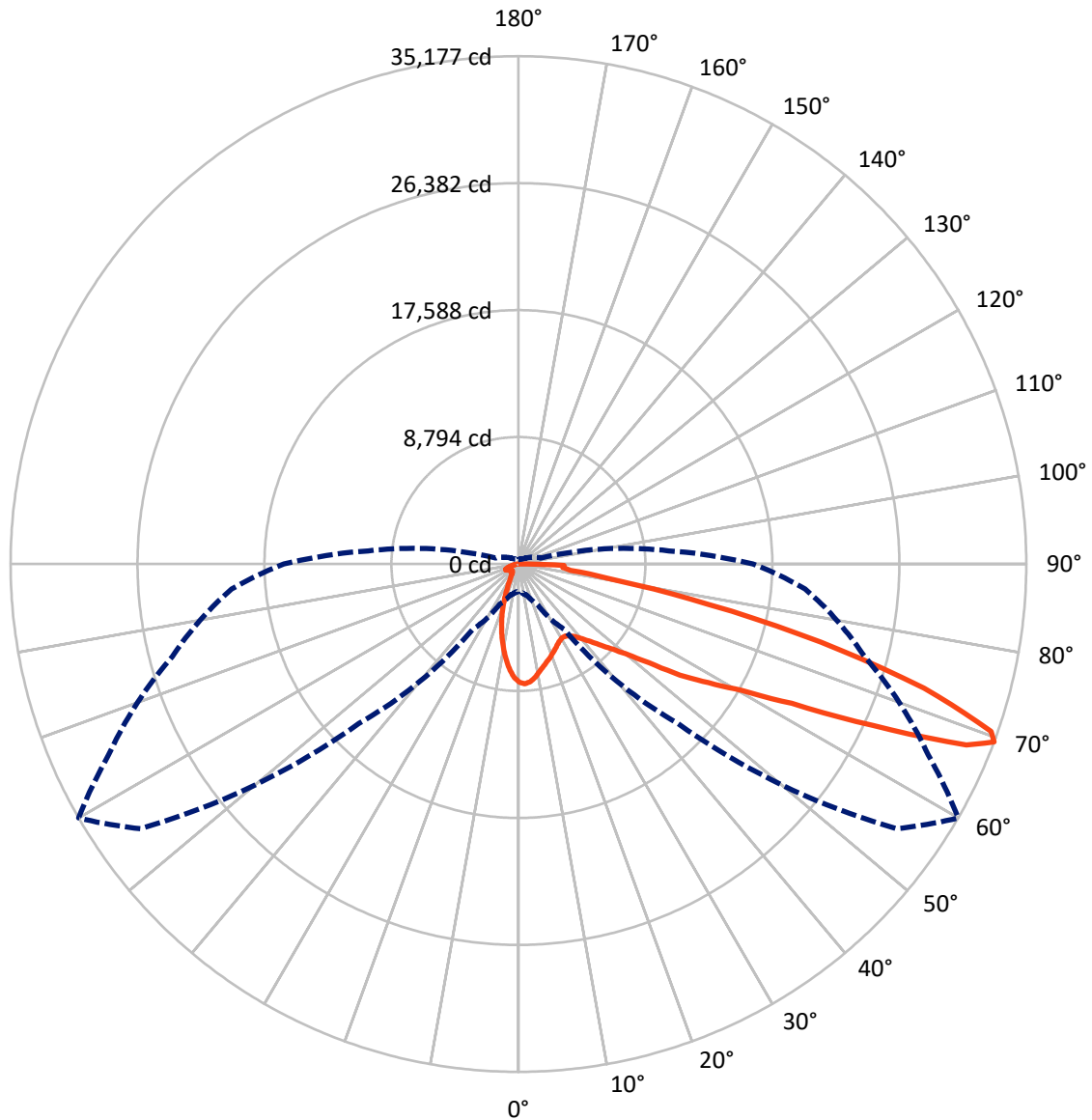
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191156  
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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
<b>House Side</b>	Lumens	4574.6	0.0	4574.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	27579.8	0.0	27579.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	32154.4	0.0	32154.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	692.8	2.2
10°-20°	1476.0	4.6
20°-30°	1880.7	5.8
30°-40°	2585.5	8.0
40°-50°	4195.2	13.0
50°-60°	6728.1	20.9
60°-70°	8954.6	27.8
70°-80°	4834.8	15.0
80°-90°	806.7	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°	32154.4	100.0
0°-180°	32154.4	100.0



REPORT NUMBER: P191156

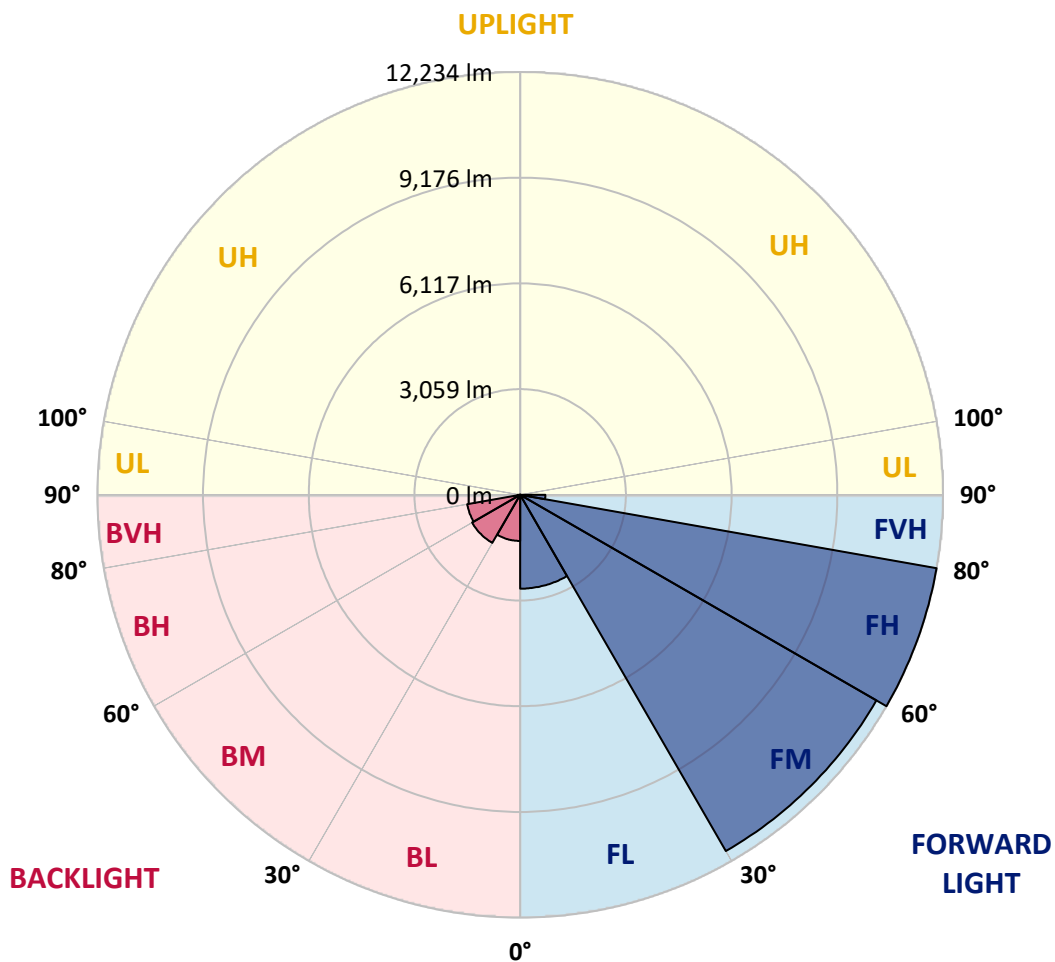
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2715.0	8.4			
FM (30°-60°)	11901.7	37.0			
FH (60°-80°)	12234.1	38.0			G5
FVH (80°-90°)	729.0	2.3			G4/750
BL (0°-30°)	1334.5	4.2	B3/2500		
BM (30°-60°)	1607.1	5.0	B2/2500		
BH (60°-80°)	1555.2	4.8	B3/2500		G3/2500
BVH (80°-90°)	77.7	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





REPORT NUMBER: P191156

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4
2.5°	8361.2	8379.8	8372.0	8367.4	8381.3	8359.7	8314.5	8300.6	8278.8	8227.6	8140.6
5°	8047.5	8103.3	8100.2	8142.2	8212.0	8230.7	8210.5	8213.6	8173.3	8109.5	7965.1
7.5°	7505.4	7528.6	7541.1	7632.7	7760.1	7862.6	7949.6	7977.5	7958.9	7904.5	7718.2
10°	6946.1	6964.8	6994.3	7101.5	7263.1	7404.4	7569.0	7663.7	7704.1	7694.8	7486.7
12.5°	6466.2	6484.9	6523.7	6644.9	6837.4	7011.4	7250.6	7368.6	7465.0	7522.5	7298.8
15°	6035.9	6076.3	6113.7	6253.4	6469.3	6697.7	6967.9	7117.0	7266.1	7395.0	7132.5
17.5°	5700.5	5740.8	5762.6	5889.9	6119.8	6399.4	6716.3	6891.8	7078.2	7289.4	6967.9
20°	5506.3	5525.0	5515.6	5587.1	5793.7	6090.3	6466.2	6669.6	6894.9	7190.0	6803.2
22.5°	5451.9	5453.5	5419.3	5411.5	5545.1	5795.2	6199.1	6446.0	6722.5	7124.8	6662.0
25°	5584.0	5579.3	5486.1	5410.0	5424.0	5570.0	5941.2	6228.5	6578.1	7110.8	6553.2
27.5°	5877.6	5891.5	5753.3	5610.4	5469.0	5464.4	5745.5	6048.4	6460.0	7174.5	6506.6
30°	6289.1	6312.4	6164.9	5983.1	5717.6	5498.6	5669.4	5941.2	6387.0	7306.5	6498.8
32.5°	6739.6	6764.5	6652.6	6461.6	6113.7	5709.8	5722.2	5950.5	6383.9	7491.4	6551.6
35°	7219.6	7247.5	7190.0	7028.5	6641.7	6099.7	5924.1	6101.2	6484.9	7774.0	6693.0
37.5°	7755.4	7798.9	7814.4	7660.7	7247.5	6613.8	6254.9	6387.0	6713.2	8167.0	6952.4
40°	8527.4	8588.0	8583.3	8362.7	7941.8	7308.1	6766.0	6800.2	7068.9	8692.0	7367.1
42.5°	10006.1	10018.5	9631.8	9151.8	8706.0	8038.1	7368.6	7340.7	7559.7	9356.8	7977.5
45°	11887.1	11835.8	10975.3	10048.0	9504.3	8876.9	8153.0	8016.4	8182.6	10167.6	8741.7
47.5°	13448.1	13330.1	12242.8	10962.9	10349.4	9788.6	9074.1	8834.9	8926.6	11087.2	9729.6
50°	13990.2	13901.7	13000.8	11723.9	11149.2	10900.8	10208.0	9869.4	9894.3	12183.8	10886.8
52.5°	13873.7	13861.3	13260.2	12225.7	11897.9	12068.8	11814.1	11355.9	11113.5	13401.5	12135.6
55°	13598.8	13625.2	13407.7	12809.7	12753.8	13196.5	13912.5	13573.9	12820.5	14630.1	13426.3
57.5°	12643.5	12711.9	13190.2	13544.4	14131.6	14790.1	15602.5	15506.2	14658.1	15958.1	14961.0
60°	10186.2	10344.7	11627.7	13401.5	15549.7	17609.3	17972.7	17749.1	16553.1	17606.2	16987.9
62.5°	7137.2	7301.8	8827.1	11602.8	15316.6	20793.4	22210.0	21245.5	19274.3	20033.9	19611.4
65°	3821.0	3900.2	5065.1	8050.5	12930.9	21450.5	28402.8	26935.0	23583.1	23027.0	21855.9
67.5°	2107.8	2151.3	2597.1	4064.9	8282.0	18889.2	32348.2	33457.1	28968.2	25019.8	21447.4
69°	1905.9	1946.3	2238.2	3078.6	5542.0	15618.0	31962.9	35176.6	31329.2	24822.6	19937.6
70°	1863.9	1901.2	2163.6	2837.8	4485.8	12873.4	30672.2	34737.1	31891.5	24115.9	18620.5
72.5°	1677.5	1717.9	1972.7	2548.9	3833.4	6418.1	24296.0	29370.6	28954.3	20909.9	14123.8
75°	1564.1	1601.4	2033.2	2496.1	3670.3	4061.7	16017.2	21646.2	21284.3	14627.1	7615.7
77.5°	669.4	666.4	942.9	2112.4	3724.7	3932.8	8606.6	13522.7	12337.5	6251.9	2187.0
80°	447.3	439.6	447.3	621.3	3415.6	3954.6	4509.1	6863.8	5184.7	1593.7	1078.0
82.5°	385.2	379.0	393.0	379.0	1200.6	4513.8	3833.4	3650.2	2465.0	905.5	534.3
85°	259.4	248.5	338.6	340.1	566.9	4010.5	4318.1	3083.2	1994.3	537.5	264.0
87.5°	124.3	121.1	197.2	240.8	332.4	1629.4	4844.6	3159.3	2011.4	275.0	125.8
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°	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4	8193.4
2.5°	8114.3	8050.5	7988.4	7913.9	7836.2	7749.2	7705.7	7662.2	7651.4	7638.9	7595.4
5°	7890.5	7800.4	7645.1	7474.3	7294.0	7118.6	6985.0	6901.1	6837.4	6804.8	6747.4
7.5°	7601.6	7469.6	7197.8	6902.7	6599.8	6323.3	6084.1	5933.4	5790.5	5723.7	5647.6
10°	7326.7	7129.5	6707.0	6272.0	5837.2	5419.3	5026.4	4748.3	4501.3	4363.1	4265.3
12.5°	7090.6	6820.3	6234.8	5646.1	5049.6	4454.7	3866.0	3403.2	3016.4	2812.9	2708.9
15°	6860.7	6534.5	5785.9	5038.7	4273.0	3463.8	2690.3	2165.3	1845.3	1717.9	1674.4
17.5°	6652.6	6234.8	5335.4	4426.8	3471.5	2492.9	1808.0	1519.1	1396.3	1354.5	1340.5
20°	6427.4	5931.9	4867.9	3786.9	2635.8	1742.8	1411.9	1284.5	1234.8	1222.4	1216.2
22.5°	6209.9	5633.7	4420.6	3101.9	1893.4	1345.1	1213.1	1160.3	1152.6	1163.4	1163.4
25°	6025.1	5366.5	3937.5	2385.8	1390.2	1132.3	1085.8	1073.3	1102.8	1143.1	1150.9
27.5°	5886.9	5147.5	3423.4	1761.4	1107.4	984.8	983.3	1003.4	1076.5	1154.1	1169.6
30°	5792.0	4939.3	2873.6	1270.6	928.8	866.7	891.6	935.1	1042.3	1152.6	1182.0
32.5°	5744.0	4785.6	2300.4	983.3	795.2	761.1	803.0	855.8	961.5	1064.0	1102.8
35°	5781.2	4672.2	1759.9	820.1	702.1	675.7	719.1	770.4	832.6	876.1	905.5
37.5°	5921.0	4627.1	1328.0	734.7	638.4	613.6	647.7	677.2	702.1	714.5	728.4
40°	6222.3	4675.3	1064.0	691.2	602.6	571.6	585.5	596.5	612.0	624.4	630.6
42.5°	6666.6	4819.7	953.7	674.1	584.0	539.0	535.9	540.5	560.7	584.0	588.7
45°	7287.9	5074.4	945.9	685.0	574.7	512.6	498.6	504.8	535.9	571.6	577.8
47.5°	8081.6	5462.8	1008.0	717.6	582.5	498.6	475.3	483.0	521.9	570.1	577.8
50°	9043.1	6004.9	1112.2	765.8	616.6	501.7	467.5	472.2	512.6	565.4	573.2
52.5°	10178.5	6773.8	1225.5	812.3	652.3	521.9	473.7	462.9	500.1	546.8	556.1
55°	11441.3	7760.1	1342.0	854.3	671.1	546.8	486.2	450.4	476.9	515.7	523.4
57.5°	12991.5	9139.3	1543.9	894.7	683.4	563.9	498.6	438.0	447.3	475.3	481.5
60°	15089.9	11090.2	1899.6	961.5	711.4	570.1	497.1	427.2	417.9	433.3	436.5
62.5°	17604.6	13208.9	2196.3	1045.4	758.0	574.7	487.7	419.4	393.0	393.0	396.1
65°	19097.3	13775.9	2031.7	1115.2	796.8	570.1	476.9	411.6	374.3	357.2	358.9
67.5°	17831.4	12115.4	1741.2	1129.2	795.2	548.3	459.7	397.6	355.7	329.3	327.8
69°	16245.5	10453.4	1610.7	1091.9	758.0	520.4	438.0	382.1	341.7	313.7	312.2
70°	14967.2	9439.2	1525.3	1051.6	717.6	500.1	420.9	368.2	330.8	304.4	301.4
72.5°	10882.2	6185.1	1303.1	904.0	591.8	419.4	363.5	323.0	295.1	279.6	276.5
75°	5437.9	2949.7	1057.7	733.1	453.6	335.5	298.2	270.3	256.2	253.2	251.6
77.5°	1786.3	1351.3	756.5	546.8	337.1	262.5	240.8	220.5	217.5	226.8	223.7
80°	981.6	785.9	480.0	361.9	229.9	192.6	189.5	178.6	183.3	198.9	195.7
82.5°	500.1	408.5	296.7	217.5	155.3	138.2	150.7	144.4	150.7	164.7	163.1
85°	246.9	223.7	187.9	132.1	102.5	88.5	107.2	111.8	115.0	125.8	125.8
87.5°	142.9	132.1	99.4	62.1	51.2	46.6	62.1	60.6	71.4	77.6	76.1
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)