

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: P193798

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45683 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

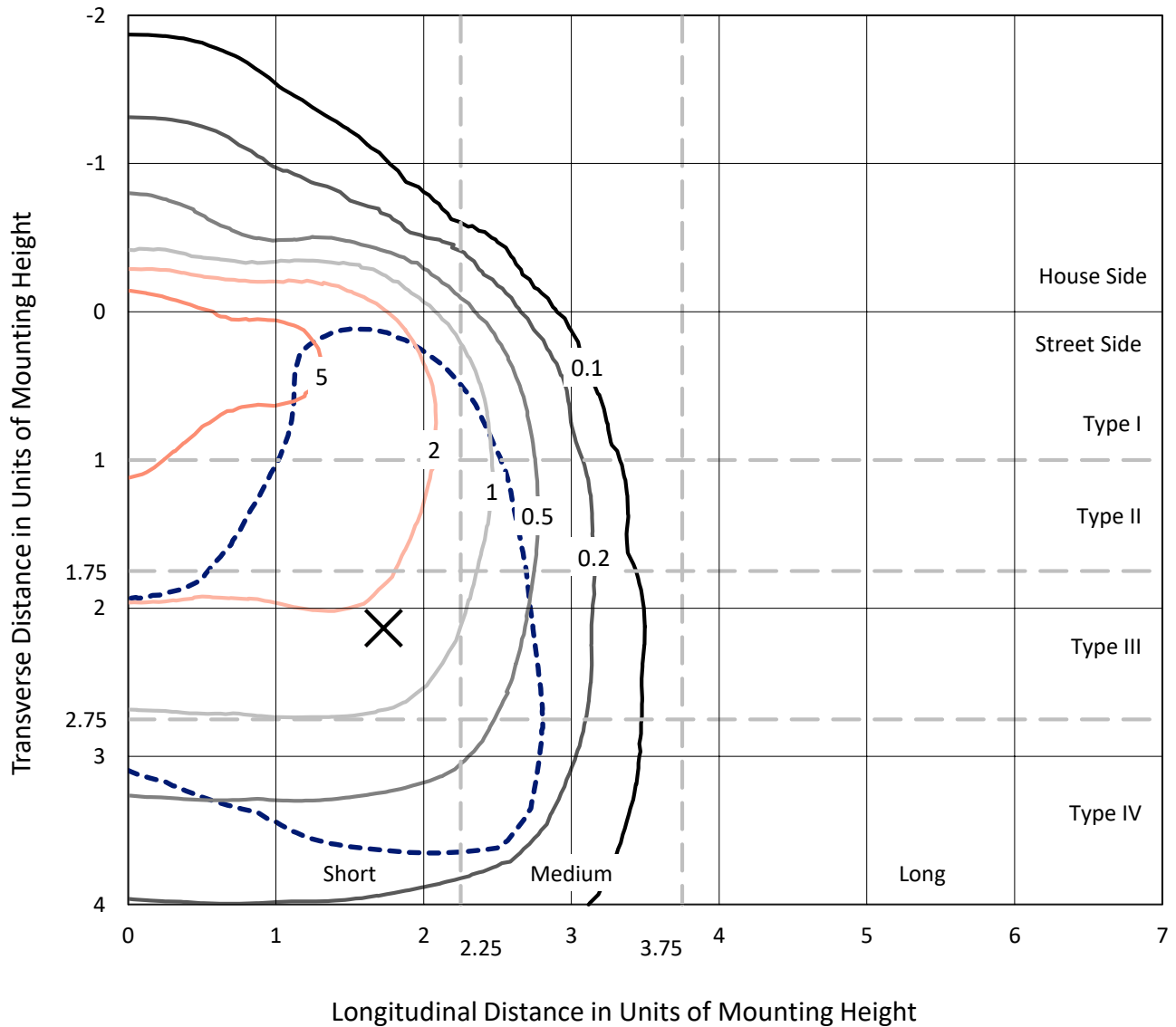
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

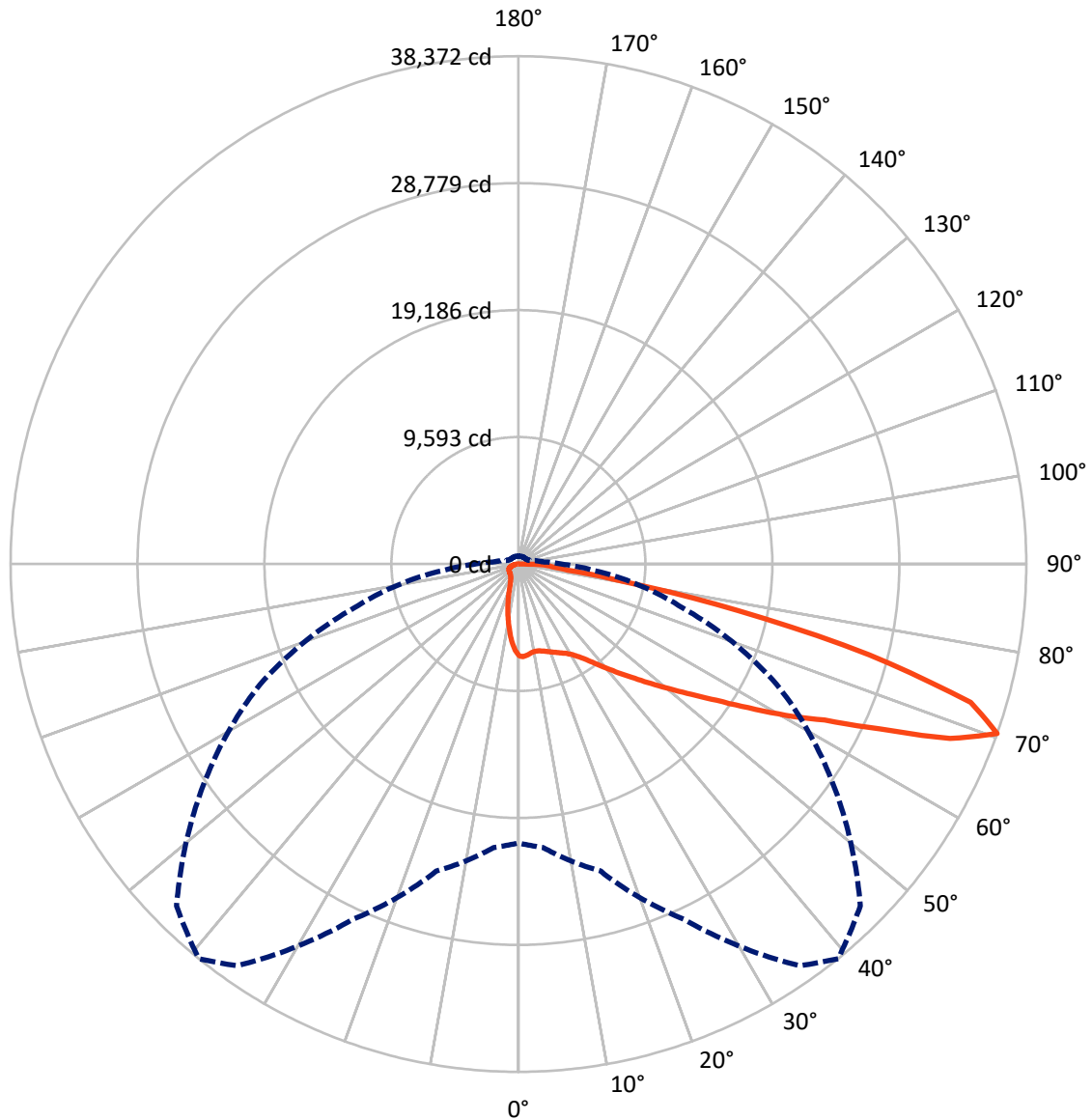
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5195.7	0.0	5195.7
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	40487.3	0.0	40487.3
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	45683.0	0.0	45683.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.2	1.3
10°-20°	1487.7	3.3
20°-30°	2316.5	5.1
30°-40°	3608.6	7.9
40°-50°	6058.3	13.3
50°-60°	9624.1	21.1
60°-70°	12837.4	28.1
70°-80°	7752.2	17.0
80°-90°	1403.0	3.1
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°	45683.0	100.0
0°-180°	45683.0	100.0



REPORT NUMBER: P193798

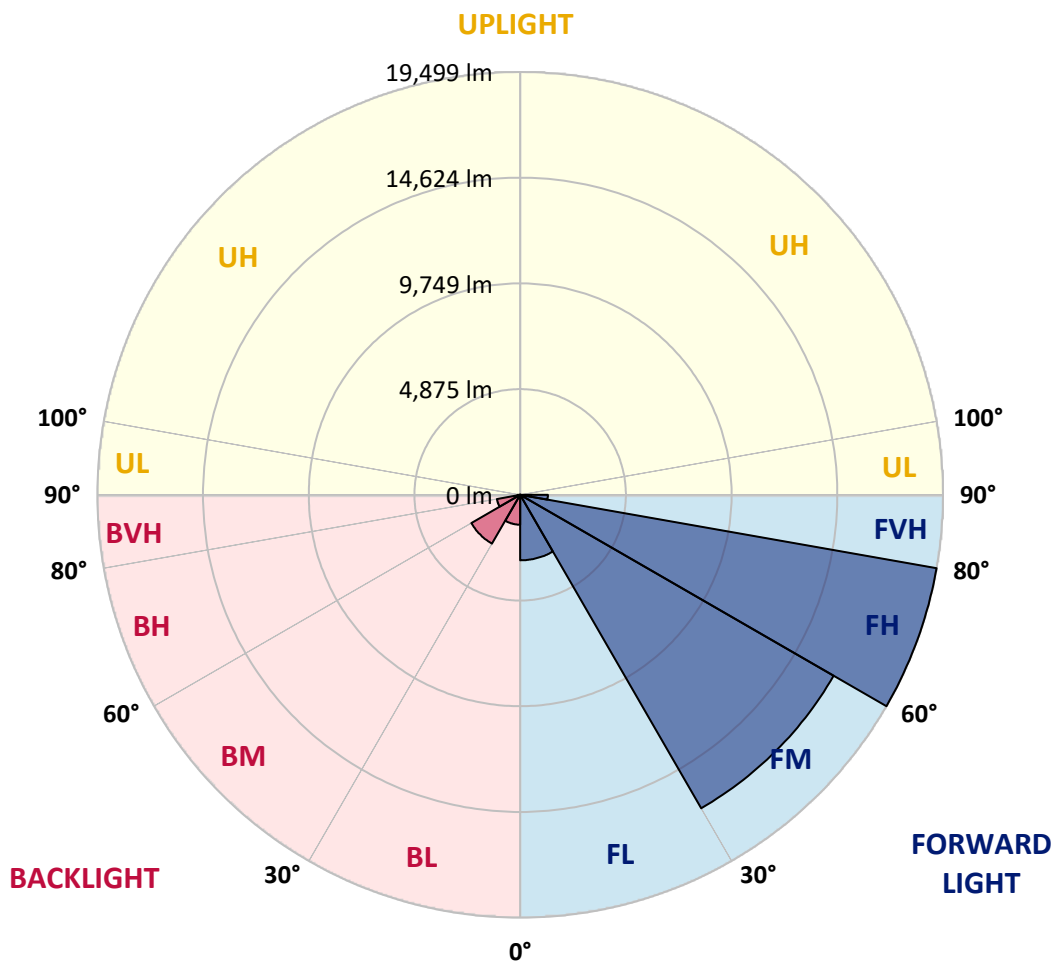
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3021.1	6.6			
FM	(30°-60°)	16690.8	36.5			
FH	(60°-80°)	19498.8	42.7			G5
FVH	(80°-90°)	1276.6	2.8			G5
BL	(0°-30°)	1378.3	3.0	B3/2500		
BM	(30°-60°)	2600.1	5.7	B3/5000		
BH	(60°-80°)	1090.8	2.4	B3/2500		G3/2500
BVH	(80°-90°)	126.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4
2.5°	7070.1	7067.8	7049.2	7035.3	7023.6	7019.0	7028.3	6993.5	6963.3	6926.1	6886.6
5°	7016.7	7014.4	6984.2	6956.3	6928.4	6919.1	6916.8	6854.1	6816.9	6761.2	6686.9
7.5°	6958.6	6947.0	6907.5	6861.1	6812.3	6789.1	6765.8	6684.5	6642.7	6587.0	6501.1
10°	6898.2	6884.3	6847.1	6800.7	6754.2	6719.4	6679.9	6600.9	6556.8	6515.0	6415.1
12.5°	6835.5	6823.9	6814.6	6793.7	6761.2	6731.0	6700.8	6633.4	6587.0	6538.2	6422.1
15°	6826.2	6821.6	6842.5	6856.4	6837.8	6819.3	6786.7	6728.7	6679.9	6631.1	6480.2
17.5°	6900.5	6898.2	6951.6	6988.8	6979.5	6947.0	6902.9	6837.8	6798.4	6756.5	6568.4
20°	7063.1	7074.7	7139.8	7188.6	7142.1	7095.6	7023.6	6933.1	6912.2	6893.6	6659.0
22.5°	7369.7	7381.3	7427.8	7446.4	7325.6	7258.2	7158.4	7042.2	7028.3	7042.2	6768.2
25°	7848.2	7836.6	7829.6	7759.9	7539.3	7434.8	7307.0	7186.2	7193.2	7255.9	6921.5
27.5°	8482.3	8419.6	8322.0	8113.0	7762.2	7646.1	7490.5	7379.0	7423.1	7543.9	7151.4
30°	9139.6	9069.9	8844.6	8503.2	8054.9	7927.2	7753.0	7627.5	7743.7	7934.1	7458.0
32.5°	9748.1	9738.8	9409.0	8970.0	8459.0	8347.5	8173.4	8031.7	8219.8	8510.1	7917.9
35°	10412.4	10433.3	10038.4	9511.2	9004.9	8888.7	8763.3	8656.5	8907.3	9306.8	8584.5
37.5°	11123.1	11164.9	10698.1	10103.5	9627.3	9578.5	9504.2	9457.8	9845.6	10398.4	9515.8
40°	12073.1	12031.2	11383.2	10772.4	10391.5	10389.1	10365.9	10421.7	11067.4	11824.5	10712.0
42.5°	13090.4	12967.3	12110.2	11490.1	11229.9	11308.9	11355.4	11583.0	12537.6	13557.2	12170.6
45°	14186.7	13910.3	12865.1	12249.6	12161.3	12328.5	12486.5	12981.2	14267.9	15529.1	13768.6
47.5°	15062.3	14795.2	13645.5	13046.2	13239.0	13492.2	13796.5	14579.2	16205.0	17566.1	15345.6
50°	15752.1	15577.9	14432.9	13975.3	14425.9	14816.1	15313.1	16388.5	18221.1	19549.6	16806.6
52.5°	16421.0	16291.0	15227.2	14927.6	15819.5	16358.3	17034.2	18330.2	20288.2	21500.6	18035.3
55°	17024.9	16932.0	16081.9	16114.4	17459.2	18160.7	19010.8	20541.4	22541.2	23240.3	19075.8
57.5°	17705.4	17587.0	17057.4	17603.2	19565.9	20476.3	21581.9	23026.6	24654.8	24787.2	19867.8
60°	18390.6	18288.4	18139.8	19322.0	22241.6	23198.5	24246.0	25435.2	26798.6	25988.0	19821.4
62.5°	18985.2	18996.8	19259.3	21126.7	24861.5	25969.4	27246.8	28422.1	28738.0	26197.0	18355.8
65°	19993.2	20176.7	20959.5	23681.6	28549.8	30031.7	31599.4	31411.3	29274.5	24243.7	15213.3
67.5°	21191.7	21514.6	23100.9	27086.6	33211.4	35178.6	35784.8	32087.2	27126.1	19707.6	10844.4
70°	21070.9	21514.6	24025.3	29625.2	37053.0	38372.2	36532.7	29039.9	21540.1	12874.4	5760.1
72.5°	18711.1	19345.2	22141.7	28461.6	35842.9	35726.8	31715.6	21649.3	12797.7	5170.2	2250.6
75°	14261.0	14902.0	17308.3	22485.4	28329.2	27353.7	22504.0	11959.2	4856.6	2053.2	1419.1
77.5°	8203.5	8700.6	10558.7	13789.5	17972.5	16971.5	12526.0	5318.8	2364.4	1430.7	1107.9
80°	4580.2	4856.6	5985.4	6995.8	8807.4	8073.5	5604.5	3305.1	1765.2	1038.2	854.7
82.5°	3621.0	3867.2	4840.4	4413.0	4022.8	3711.6	3219.2	2942.8	1409.8	655.0	511.0
85°	3163.4	3398.0	4097.1	3474.7	2747.7	2520.1	2615.3	2896.3	1096.3	394.8	436.7
87.5°	2931.2	3244.7	3651.2	2678.0	2139.1	1895.3	2413.2	3175.0	353.0	246.2	176.5
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°	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4	6935.4
2.5°	6851.8	6814.6	6754.2	6700.8	6617.2	6573.1	6524.3	6489.4	6461.6	6438.3	6475.5
5°	6640.4	6570.7	6443.0	6306.0	6143.4	6015.6	5908.8	5808.9	5739.2	5692.8	5725.3
7.5°	6440.7	6326.9	6127.1	5878.6	5599.9	5363.0	5167.9	4996.0	4877.5	4800.9	4831.1
10°	6326.9	6185.2	5876.3	5486.1	5075.0	4705.7	4399.1	4134.3	3950.8	3846.3	3862.5
12.5°	6299.0	6115.5	5688.1	5151.6	4589.5	4076.2	3644.2	3277.2	3019.4	2884.7	2889.4
15°	6319.9	6085.3	5511.6	4831.1	4120.4	3472.3	2933.5	2487.5	2187.9	2034.6	2032.3
17.5°	6354.7	6062.1	5325.8	4485.0	3644.2	2891.7	2290.1	1853.5	1588.7	1465.6	1456.3
20°	6391.9	6024.9	5116.8	4111.1	3149.5	2352.8	1793.1	1451.6	1284.4	1217.1	1212.4
22.5°	6445.3	5992.4	4900.8	3716.2	2664.1	1916.2	1474.9	1244.9	1156.7	1121.8	1117.2
25°	6531.2	5976.1	4670.8	3305.1	2227.4	1602.6	1284.4	1142.7	1091.6	1068.4	1066.1
27.5°	6675.3	5999.4	4454.8	2905.6	1872.0	1391.3	1177.6	1091.6	1054.5	1033.6	1031.2
30°	6861.1	6071.4	4227.2	2527.0	1595.7	1247.3	1112.5	1056.8	1026.6	1005.7	1005.7
32.5°	7170.0	6192.1	3988.0	2199.5	1398.2	1147.4	1063.8	1026.6	1001.1	984.8	982.5
35°	7625.2	6419.8	3765.0	1927.8	1256.5	1075.4	1022.0	994.1	975.5	966.2	966.2
37.5°	8287.2	6779.8	3567.6	1732.7	1170.6	1026.6	982.5	961.6	950.0	950.0	950.0
40°	9176.7	7276.8	3407.3	1602.6	1121.8	991.8	952.3	936.0	929.1	931.4	931.4
42.5°	10275.3	7922.5	3300.5	1512.0	1098.6	970.9	931.4	917.4	910.5	908.2	910.5
45°	11527.2	8656.5	3288.9	1444.7	1075.4	956.9	917.4	903.5	889.6	880.3	880.3
47.5°	12744.3	9402.0	3384.1	1421.5	1049.8	940.7	905.8	891.9	871.0	850.1	850.1
50°	13819.7	10036.1	3511.8	1430.7	1040.5	917.4	887.2	880.3	847.8	824.5	822.2
52.5°	14674.4	10523.9	3616.3	1458.6	1049.8	901.2	864.0	866.3	831.5	806.0	803.6
55°	15359.6	10844.4	3588.5	1486.5	1070.7	891.9	843.1	847.8	819.9	794.3	794.3
57.5°	15659.2	10725.9	3279.6	1463.3	1087.0	894.2	826.9	845.4	822.2	799.0	799.0
60°	15015.8	9673.8	2701.2	1361.1	1066.1	887.2	819.9	854.7	852.4	829.2	826.9
62.5°	13069.5	7790.1	2095.0	1210.1	994.1	852.4	801.3	852.4	878.0	871.0	868.7
65°	10073.3	5548.8	1600.3	1047.5	896.5	794.3	752.5	799.0	833.8	843.1	840.8
67.5°	6538.2	3400.3	1233.3	894.2	787.4	727.0	689.8	710.7	717.7	717.7	713.0
70°	3214.5	1830.2	982.5	752.5	675.9	655.0	634.1	622.5	610.9	601.6	601.6
72.5°	1586.4	1196.2	808.3	636.4	583.0	573.7	569.0	555.1	545.8	534.2	529.6
75°	1172.9	973.2	687.5	536.5	501.7	492.4	501.7	490.1	487.8	478.5	473.8
77.5°	963.9	829.2	592.3	459.9	429.7	413.4	427.4	429.7	432.0	418.1	413.4
80°	782.7	701.4	494.7	380.9	353.0	341.4	350.7	369.3	373.9	353.0	343.7
82.5°	564.4	573.7	399.5	297.3	274.1	264.8	283.4	306.6	311.2	281.0	274.1
85°	473.8	478.5	306.6	211.4	188.1	174.2	204.4	227.6	243.9	213.7	206.7
87.5°	197.4	281.0	176.5	118.5	104.5	90.6	109.2	120.8	146.3	134.7	132.4
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)