

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: P191258

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191258  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 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: 57268.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 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

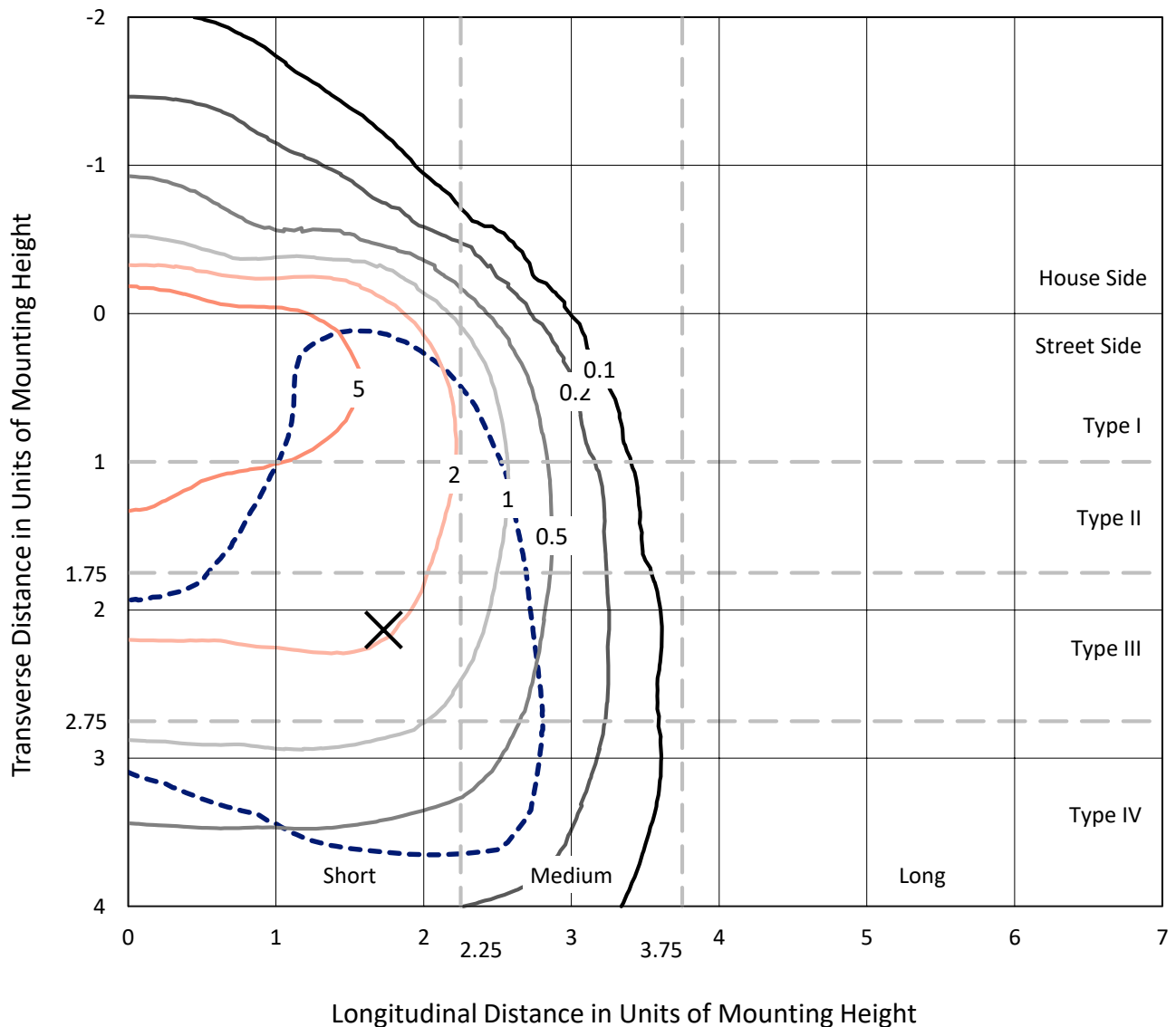
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

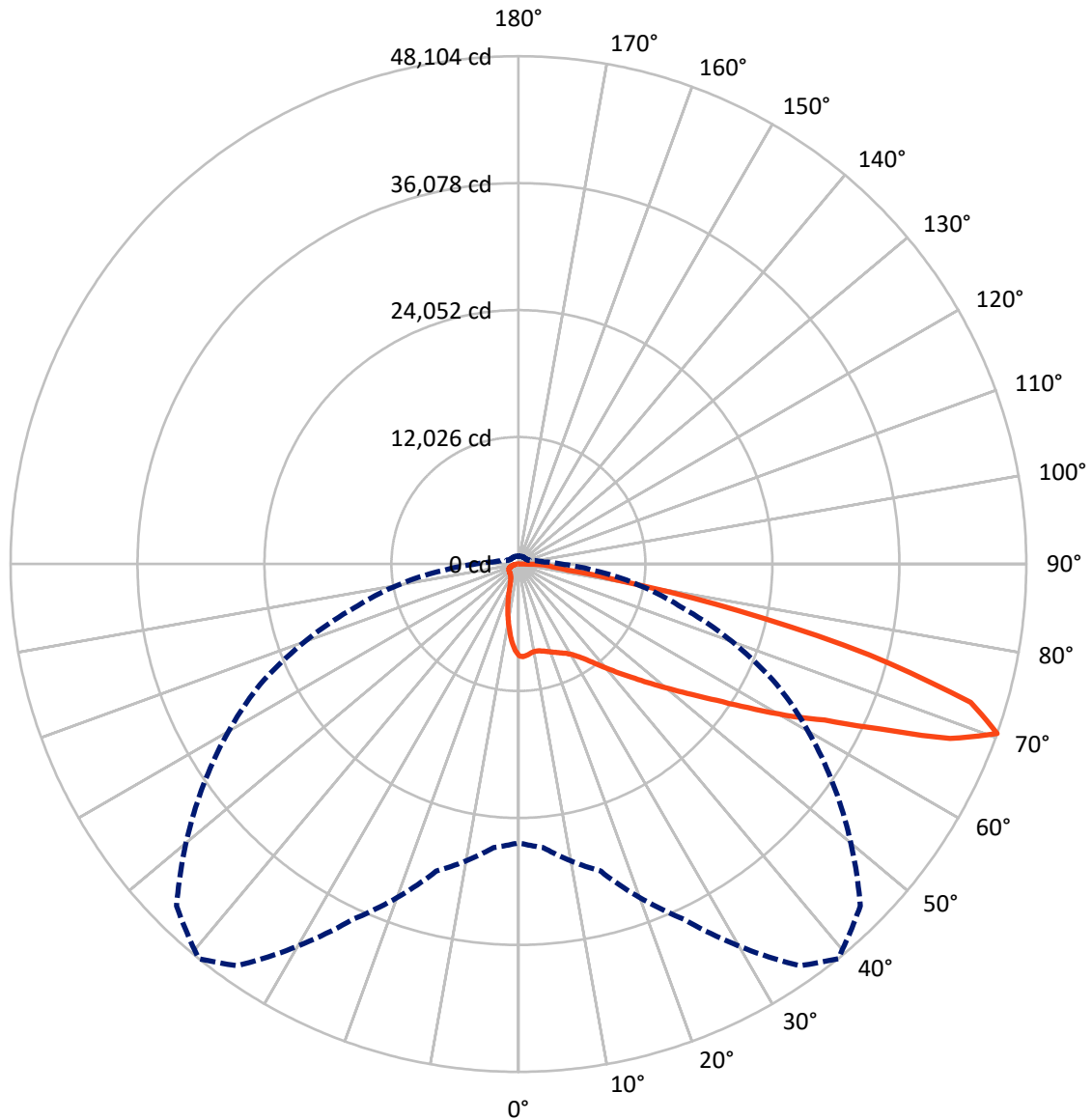


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Short - Semi-Cutoff

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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	6513.4	0.0	6513.4
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	50755.5	0.0	50755.5
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	57268.9	0.0	57268.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	746.1	1.3
10°-20°	1865.0	3.3
20°-30°	2904.0	5.1
30°-40°	4523.8	7.9
40°-50°	7594.7	13.3
50°-60°	12064.9	21.1
60°-70°	16093.2	28.1
70°-80°	9718.3	17.0
80°-90°	1758.9	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°	57268.9	100.0
0°-180°	57268.9	100.0



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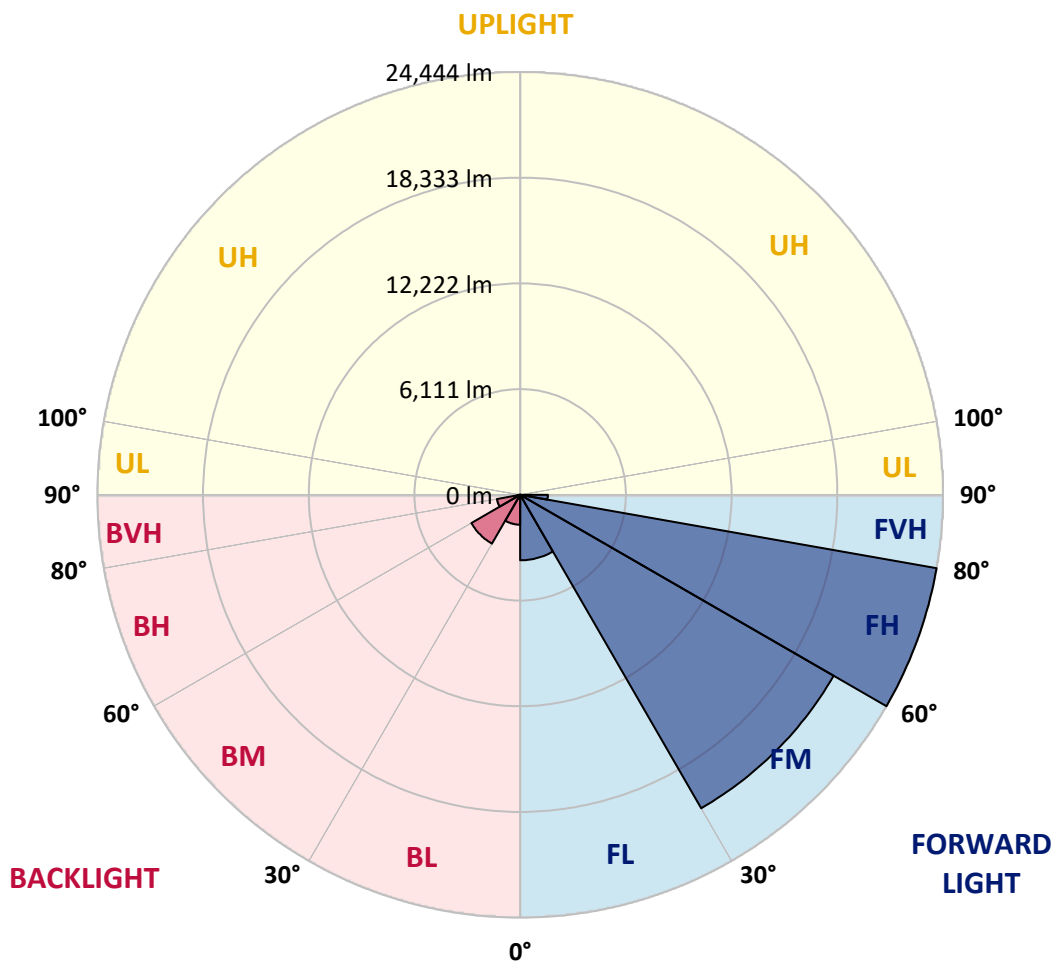
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3787.3	6.6			
FM (30°-60°)	20923.8	36.5			
FH (60°-80°)	24444.0	42.7			G5
FVH (80°-90°)	1600.4	2.8			G5
BL (0°-30°)	1727.9	3.0	B3/2500		
BM (30°-60°)	3259.6	5.7	B3/5000		
BH (60°-80°)	1367.4	2.4	B3/2500		G3/2500
BVH (80°-90°)	158.5	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°	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3
2.5°	8863.2	8860.3	8837.0	8819.5	8804.9	8799.1	8810.8	8767.1	8729.2	8682.7	8633.2
5°	8796.3	8793.3	8755.4	8720.6	8685.6	8673.9	8671.0	8592.4	8545.8	8476.0	8382.8
7.5°	8723.4	8708.9	8659.4	8601.2	8540.0	8510.8	8481.8	8379.8	8327.4	8257.6	8149.8
10°	8647.7	8630.2	8583.7	8525.4	8467.2	8423.5	8374.0	8275.1	8219.7	8167.2	8042.1
12.5°	8569.1	8554.5	8542.9	8516.7	8476.0	8438.1	8400.3	8315.8	8257.6	8196.4	8050.8
15°	8557.5	8551.7	8577.9	8595.3	8572.0	8548.7	8508.0	8435.2	8374.0	8312.9	8123.7
17.5°	8650.6	8647.7	8714.7	8761.3	8749.6	8708.9	8653.6	8572.0	8522.5	8470.1	8234.2
20°	8854.5	8869.0	8950.5	9011.7	8953.5	8895.2	8804.9	8691.4	8665.2	8641.9	8347.8
22.5°	9238.8	9253.3	9311.6	9334.8	9183.4	9099.0	8973.8	8828.3	8810.8	8828.3	8484.7
25°	9838.6	9824.0	9815.3	9728.0	9451.3	9320.3	9160.2	9008.7	9017.5	9096.1	8676.9
27.5°	10633.5	10554.9	10432.6	10170.5	9730.8	9585.3	9390.2	9250.4	9305.8	9457.2	8965.1
30°	11457.5	11370.1	11087.7	10659.7	10097.8	9937.6	9719.3	9562.0	9707.6	9946.4	9349.5
32.5°	12220.4	12208.7	11795.2	11245.0	10604.4	10464.6	10246.3	10068.6	10304.5	10668.5	9926.0
35°	13053.1	13079.3	12584.3	11923.4	11288.6	11143.0	10985.8	10851.9	11166.3	11667.2	10761.6
37.5°	13944.0	13996.5	13411.2	12665.9	12069.0	12007.8	11914.6	11856.4	12342.6	13035.7	11929.1
40°	15135.0	15082.6	14270.2	13504.4	13026.9	13024.0	12994.9	13064.7	13874.2	14823.4	13428.7
42.5°	16410.3	16255.9	15181.5	14404.2	14078.1	14177.0	14235.3	14520.6	15717.3	16995.5	15257.2
45°	17784.6	17438.1	16127.8	15356.2	15245.6	15455.3	15653.2	16273.4	17886.5	19467.6	17260.5
47.5°	18882.3	18547.4	17106.2	16354.9	16596.7	16914.0	17295.4	18276.7	20314.9	22021.1	19237.5
50°	19747.0	19528.7	18093.2	17519.7	18084.5	18573.6	19196.8	20544.8	22842.2	24507.7	21069.0
52.5°	20585.7	20422.6	19089.1	18713.5	19831.5	20507.0	21354.3	22979.1	25433.6	26953.5	22609.3
55°	21342.6	21226.2	20160.5	20201.3	21887.2	22766.5	23832.2	25750.9	28257.9	29134.4	23913.7
57.5°	22195.8	22047.4	21383.5	22067.7	24528.1	25669.4	27055.4	28866.4	30907.5	31073.6	24906.6
60°	23054.8	22926.7	22740.3	24222.4	27882.4	29082.0	30395.1	31885.9	33595.0	32578.9	24848.4
62.5°	23800.2	23814.7	24143.7	26484.7	31166.8	32555.6	34157.0	35630.3	36026.3	32840.9	23011.1
65°	25063.8	25293.9	26275.1	29687.6	35790.5	37648.2	39613.6	39377.7	36699.0	30392.2	19071.6
67.5°	26566.2	26971.0	28959.6	33956.1	41634.2	44100.4	44860.4	40225.0	34005.6	24705.7	13594.7
70°	26414.8	26971.0	30118.5	37138.6	46450.2	48104.1	45797.9	36404.9	27003.0	16139.5	7221.0
72.5°	23456.6	24251.5	27757.2	35679.8	44933.2	44787.7	39759.1	27139.8	16043.4	6481.4	2821.4
75°	17877.8	18681.4	21697.9	28188.0	35513.9	34290.9	28211.3	14992.3	6088.3	2573.9	1779.0
77.5°	10284.1	10907.2	13236.6	17286.7	22530.7	21275.7	15702.7	6667.8	2964.1	1793.6	1388.9
80°	5741.8	6088.3	7503.4	8770.0	11041.1	10121.1	7025.9	4143.4	2212.8	1301.5	1071.5
82.5°	4539.3	4848.0	6067.9	5532.2	5043.0	4652.9	4035.6	3689.1	1767.4	821.1	640.6
85°	3965.7	4259.8	5136.2	4355.9	3444.5	3159.2	3278.6	3630.9	1374.3	495.0	547.4
87.5°	3674.5	4067.7	4577.2	3357.2	2681.7	2375.9	3025.3	3980.3	442.5	308.6	221.3
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°	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3	8694.3
2.5°	8589.5	8542.9	8467.2	8400.3	8295.4	8240.1	8178.9	8135.2	8100.3	8071.2	8117.8
5°	8324.6	8237.2	8077.0	7905.3	7701.4	7541.3	7407.3	7282.2	7194.8	7136.5	7177.3
7.5°	8074.2	7931.4	7681.0	7369.4	7020.1	6723.1	6478.6	6263.0	6114.6	6018.4	6056.3
10°	7931.4	7753.9	7366.6	6877.4	6362.0	5899.1	5514.7	5182.8	4952.8	4821.8	4842.1
12.5°	7896.5	7666.5	7130.7	6458.1	5753.5	5110.0	4568.4	4108.4	3785.2	3616.3	3622.2
15°	7922.8	7628.7	6909.4	6056.3	5165.3	4353.0	3677.5	3118.5	2742.8	2550.6	2547.8
17.5°	7966.3	7599.5	6676.5	5622.4	4568.4	3625.0	2870.9	2323.5	1991.6	1837.3	1825.7
20°	8013.0	7553.0	6414.4	5153.7	3948.3	2949.6	2247.8	1819.8	1610.1	1525.7	1519.9
22.5°	8080.0	7512.1	6143.6	4658.7	3339.7	2402.1	1848.9	1560.7	1450.0	1406.4	1400.5
25°	8187.7	7491.8	5855.4	4143.4	2792.3	2009.1	1610.1	1432.5	1368.5	1339.3	1336.5
27.5°	8368.1	7520.9	5584.6	3642.5	2346.9	1744.1	1476.2	1368.5	1321.9	1295.7	1292.8
30°	8601.2	7611.2	5299.3	3167.9	2000.4	1563.6	1394.7	1324.8	1287.0	1260.8	1260.8
32.5°	8988.4	7762.6	4999.4	2757.4	1752.8	1438.4	1333.5	1287.0	1255.0	1234.6	1231.6
35°	9559.1	8047.9	4719.9	2416.7	1575.2	1348.1	1281.1	1246.2	1222.9	1211.3	1211.3
37.5°	10388.9	8499.2	4472.3	2172.1	1467.5	1287.0	1231.6	1205.4	1190.9	1190.9	1190.9
40°	11504.1	9122.4	4271.4	2009.1	1406.4	1243.3	1193.8	1173.4	1164.6	1167.6	1167.6
42.5°	12881.3	9931.7	4137.5	1895.5	1377.2	1217.1	1167.6	1150.1	1141.4	1138.4	1141.4
45°	14450.7	10851.9	4122.9	1811.0	1348.1	1199.6	1150.1	1132.6	1115.2	1103.6	1103.6
47.5°	15976.4	11786.5	4242.4	1782.0	1316.1	1179.3	1135.6	1118.1	1091.9	1065.7	1065.7
50°	17324.6	12581.4	4402.5	1793.6	1304.5	1150.1	1112.3	1103.6	1062.7	1033.7	1030.7
52.5°	18396.0	13192.9	4533.5	1828.5	1316.1	1129.7	1083.1	1086.1	1042.4	1010.4	1007.4
55°	19255.0	13594.7	4498.5	1863.5	1342.3	1118.1	1056.9	1062.7	1027.9	995.8	995.8
57.5°	19630.6	13446.2	4111.3	1834.4	1362.7	1120.9	1036.6	1059.9	1030.7	1001.6	1001.6
60°	18824.0	12127.2	3386.3	1706.3	1336.5	1112.3	1027.9	1071.5	1068.6	1039.5	1036.6
62.5°	16384.1	9765.8	2626.3	1517.0	1246.2	1068.6	1004.5	1068.6	1100.6	1091.9	1088.9
65°	12628.0	6956.1	2006.1	1313.2	1123.9	995.8	943.4	1001.6	1045.3	1056.9	1054.0
67.5°	8196.4	4262.7	1546.1	1120.9	987.0	911.3	864.8	891.0	899.7	899.7	893.9
70°	4029.8	2294.4	1231.6	943.4	847.3	821.1	794.9	780.3	765.8	754.1	754.1
72.5°	1988.7	1499.5	1013.2	797.8	730.8	719.2	713.4	695.9	684.3	669.7	663.9
75°	1470.4	1220.0	861.8	672.6	628.9	617.2	628.9	614.4	611.4	599.9	594.0
77.5°	1208.3	1039.5	742.5	576.5	538.7	518.3	535.7	538.7	541.6	524.1	518.3
80°	981.2	879.3	620.2	477.5	442.5	428.0	439.7	463.0	468.8	442.5	431.0
82.5°	707.6	719.2	500.8	372.7	343.6	331.9	355.3	384.3	390.2	352.3	343.6
85°	594.0	599.9	384.3	264.9	235.9	218.4	256.2	285.3	305.8	267.9	259.1
87.5°	247.5	352.3	221.3	148.5	131.0	113.5	136.9	151.4	183.4	168.9	165.9
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)