

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: P193628

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193628  
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-SL2-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA 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: 38052 lumens  
Efficiency: N/A  
Efficacy: 90.8 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): 419  
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

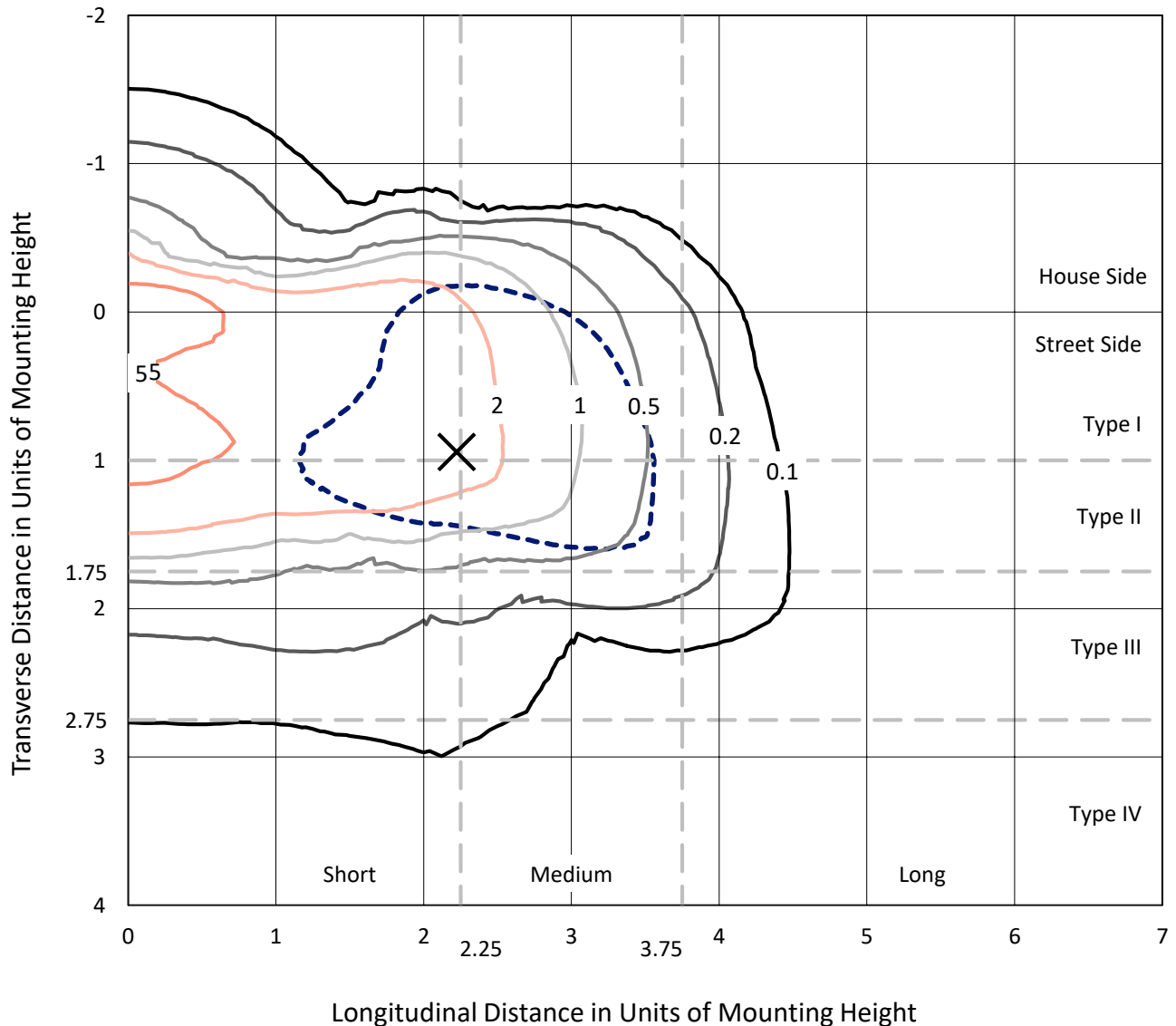


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### Iso-Footcandle Lines of Horizontal Illumination

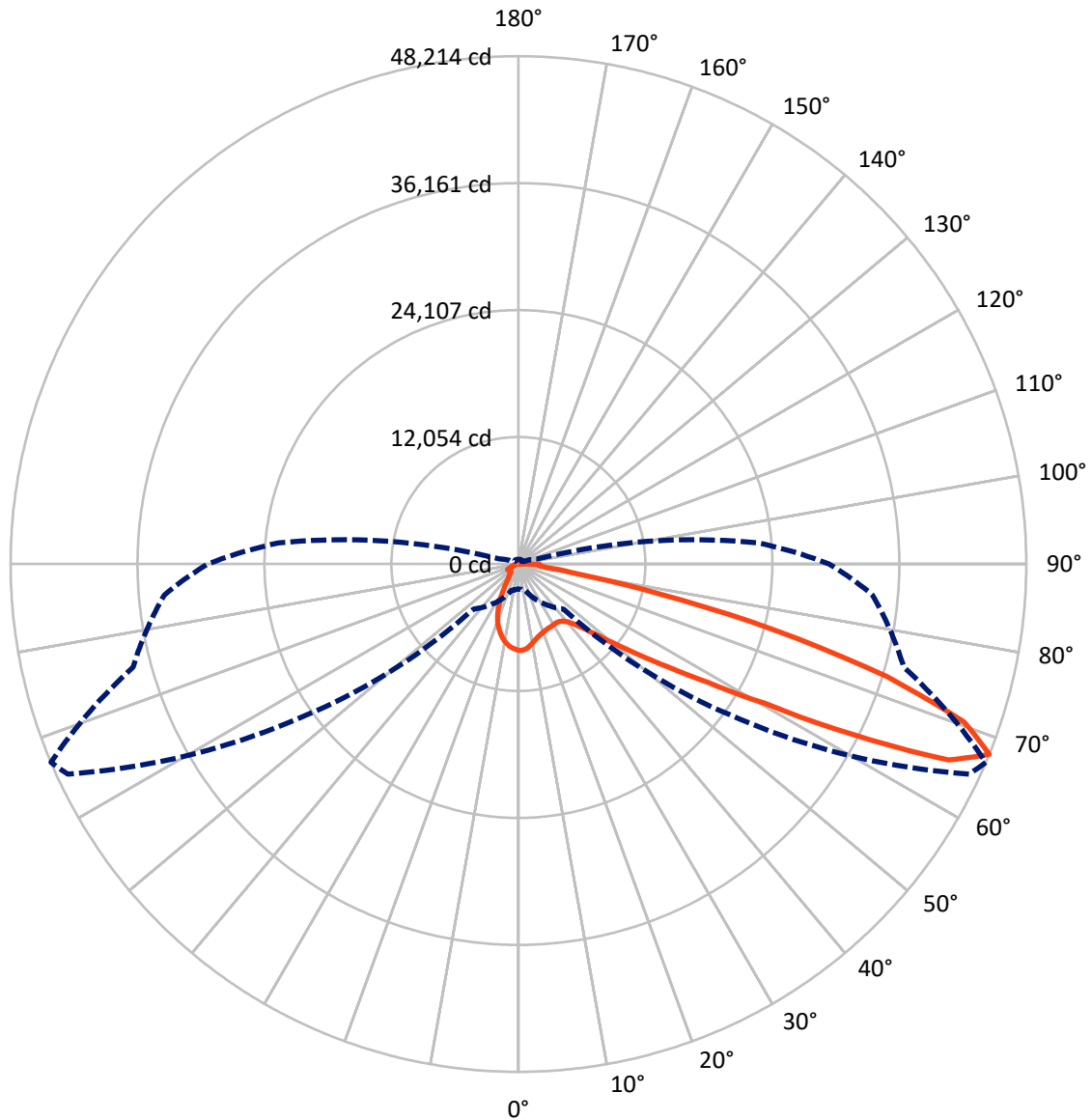
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	6304.8	0.0	6304.8
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	31747.2	0.0	31747.2
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	38052.0	0.0	38052.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	700.2	1.8
10°-20°	1620.2	4.3
20°-30°	2196.3	5.8
30°-40°	3122.2	8.2
40°-50°	5223.6	13.7
50°-60°	8263.7	21.7
60°-70°	10527.2	27.7
70°-80°	5514.1	14.5
80°-90°	884.4	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°	38052.0	100.0
0°-180°	38052.0	100.0



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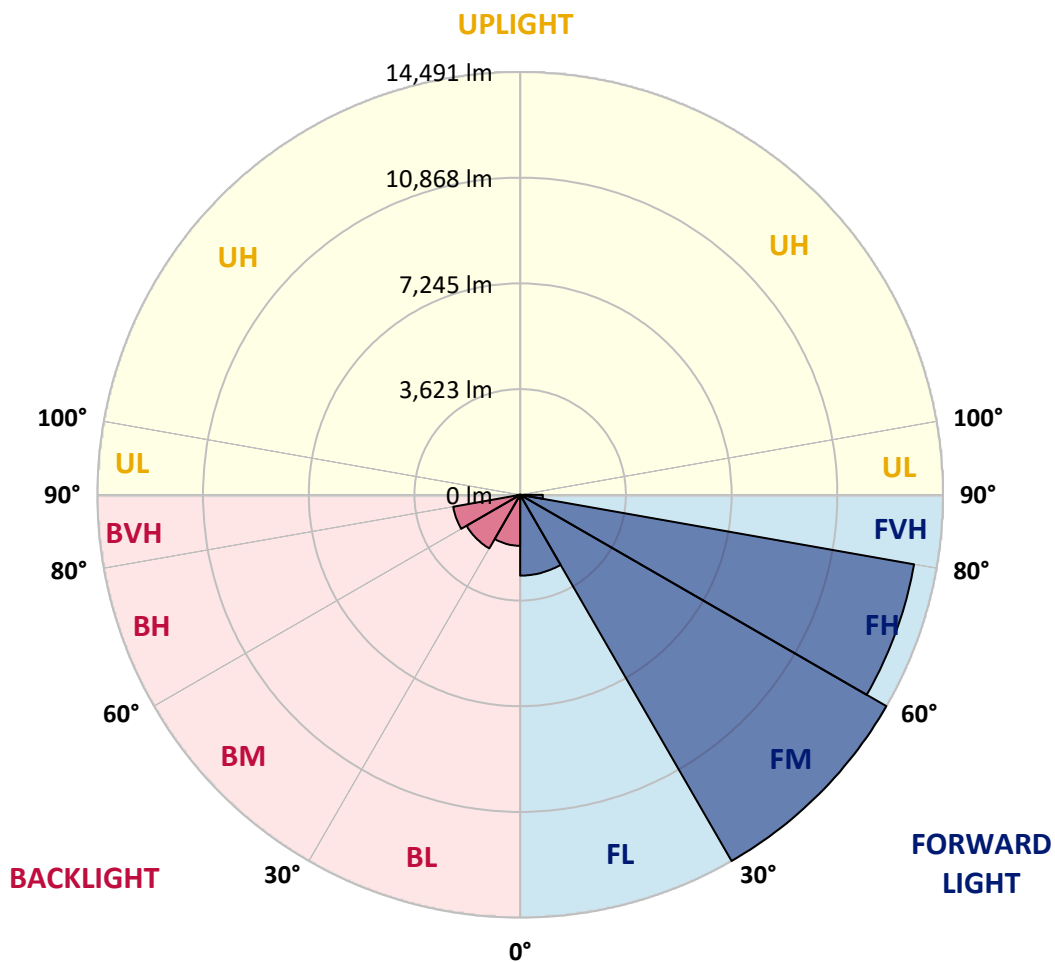
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2769.3	7.3			
FM (30°-60°)	14491.0	38.1			
FH (60°-80°)	13709.3	36.0			G5
FVH (80°-90°)	777.6	2.0			G5
BL (0°-30°)	1747.5	4.6	B3/2500		
BM (30°-60°)	2118.6	5.6	B2/2500		
BH (60°-80°)	2331.9	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°	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7
2.5°	7870.0	7883.1	7924.4	7950.6	8068.9	8119.5	8155.2	8190.8	8196.5	8213.4	8196.5
5°	7044.3	7072.5	7149.4	7235.7	7464.6	7644.8	7834.3	8031.3	8067.0	8194.6	8230.2
7.5°	6404.4	6396.9	6460.7	6563.9	6798.5	7048.1	7380.2	7772.4	7849.3	8136.4	8275.3
10°	5937.2	5931.6	5999.1	6106.1	6329.4	6565.8	6941.1	7477.8	7586.6	8044.5	8318.4
12.5°	5591.9	5593.8	5661.3	5779.6	6006.6	6244.9	6625.9	7192.5	7331.4	7937.5	8363.5
15°	5363.0	5378.0	5432.4	5558.1	5779.6	6017.9	6391.3	6978.6	7134.4	7853.1	8414.1
17.5°	5286.0	5310.4	5329.2	5421.2	5610.7	5849.0	6214.9	6821.0	6986.1	7794.9	8459.2
20°	5357.4	5385.5	5349.8	5381.7	5501.8	5712.0	6076.0	6697.2	6866.0	7729.2	8464.8
22.5°	5663.2	5689.5	5584.4	5492.5	5485.0	5612.6	5961.6	6599.6	6774.1	7680.4	8466.7
25°	6201.8	6218.7	6042.3	5828.3	5620.1	5576.9	5880.9	6532.0	6717.8	7637.3	8431.0
27.5°	6862.3	6875.4	6672.8	6357.5	5939.1	5661.3	5852.7	6492.6	6685.9	7599.7	8371.0
30°	7665.4	7727.3	7455.3	7057.4	6447.6	5910.9	5909.0	6472.0	6650.2	7535.9	8252.8
32.5°	8487.3	8513.6	8325.9	7922.5	7132.5	6350.0	6066.7	6487.0	6640.9	7459.0	8102.6
35°	9320.5	9354.3	9232.3	8907.7	8068.9	6993.6	6374.4	6575.2	6699.0	7432.7	7997.6
37.5°	10399.5	10444.5	10275.6	9900.3	9207.9	7866.2	6886.7	6796.6	6877.3	7507.8	7965.7
40°	12105.2	12084.5	11591.0	11031.8	10453.9	8982.7	7618.5	7171.9	7218.8	7749.9	8063.2
42.5°	14090.5	14039.8	13189.8	12311.6	11823.7	10333.8	8586.8	7823.0	7813.7	8226.5	8406.6
45°	15674.2	15633.0	14867.4	13784.6	13394.3	11872.5	9838.4	8793.2	8723.8	8982.7	9040.9
47.5°	16531.8	16533.7	16092.7	15208.9	15199.5	13827.8	11446.5	10196.8	10076.7	10198.7	10136.7
50°	16231.6	16271.0	16224.0	15942.6	16847.0	16391.1	13546.3	12154.0	11911.9	12032.0	11793.7
52.5°	14779.2	14829.8	15107.5	15539.1	17539.5	19489.1	16631.2	14585.9	14304.4	14261.2	13996.7
55°	12204.6	12266.5	12833.2	14006.0	16963.4	21570.1	21498.8	17685.8	17237.3	16830.1	16717.6
57.5°	8412.3	8515.5	9427.4	11168.8	15100.0	22198.8	27295.3	22104.9	21193.0	19770.6	19796.9
60°	4741.9	4862.0	5937.2	7519.1	11339.6	21515.7	31705.0	28798.3	26873.1	23213.9	23409.1
62.5°	3015.5	3145.0	3961.2	5224.1	6804.1	17837.8	33512.1	38103.8	35658.7	27458.5	27649.9
65°	2441.3	2497.6	2882.3	4312.2	4940.8	10746.6	32140.3	45769.2	44857.3	32845.9	31952.7
67.5°	2383.1	2401.9	2600.8	3619.7	4738.1	6040.4	25636.5	47202.9	48214.3	37876.7	33744.7
70°	2355.0	2420.7	2931.1	3454.6	4537.3	5094.6	15405.9	43273.5	44870.4	39192.2	31359.7
72.5°	1142.8	1139.0	1474.9	3124.3	5111.5	5284.2	7915.0	35013.2	36615.8	33954.9	25769.7
75°	921.4	842.5	805.0	1144.7	4914.5	5456.8	5044.0	24092.1	25251.8	22765.5	15841.2
77.5°	874.4	780.6	714.9	716.8	2077.3	5787.1	4272.7	13334.3	13672.0	10283.1	4340.3
80°	724.3	638.0	591.1	666.2	1005.8	5511.2	4619.9	6034.8	5537.5	2525.7	1444.9
82.5°	502.9	457.9	444.7	559.2	805.0	3927.5	5372.4	3242.6	2719.0	1264.7	891.3
85°	320.9	274.0	304.0	407.2	626.7	1812.7	5533.7	2527.6	2009.7	803.1	502.9
87.5°	148.2	120.1	150.1	225.2	409.1	624.9	5265.4	2839.1	2069.8	424.1	317.1
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°	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7	8207.7
2.5°	8211.5	8175.8	8147.7	8095.1	8037.0	7980.7	7930.0	7866.2	7847.4	7830.6	7856.8
5°	8237.7	8202.1	8098.9	7937.5	7759.2	7592.2	7425.2	7282.6	7194.4	7145.6	7173.8
7.5°	8277.2	8226.5	8012.6	7716.1	7395.2	7102.5	6800.4	6558.3	6380.0	6295.6	6320.0
10°	8312.8	8215.2	7866.2	7421.5	6952.4	6517.0	6040.4	5646.3	5353.6	5199.7	5237.3
12.5°	8327.8	8172.1	7661.7	7053.7	6410.1	5772.1	5070.2	4481.0	4060.7	3906.8	3874.9
15°	8342.8	8123.3	7436.5	6635.2	5755.2	4852.6	3869.3	3163.7	2814.7	2737.8	2720.9
17.5°	8346.6	8038.8	7181.3	6181.1	4987.7	3758.6	2645.8	2197.4	2199.2	2323.1	2338.1
20°	8307.2	7913.1	6871.7	5616.3	4068.2	2598.9	1816.4	1739.5	2022.8	2332.5	2370.0
22.5°	8217.1	7746.1	6520.8	4957.7	3015.5	1711.3	1405.5	1489.9	1855.8	2234.9	2278.0
25°	8102.6	7543.4	6106.1	4193.9	1996.6	1223.5	1178.4	1281.6	1529.3	1782.7	1807.1
27.5°	7946.9	7303.3	5640.7	3319.5	1296.6	1007.7	1037.7	1107.1	1208.5	1321.0	1332.3
30°	7746.1	7016.2	5143.4	2420.7	979.5	906.3	949.5	987.0	1030.2	1094.0	1099.6
32.5°	7515.3	6740.3	4633.0	1671.9	868.8	853.8	887.6	906.3	940.1	979.5	983.3
35°	7322.0	6477.6	4103.9	1182.2	821.9	814.4	836.9	844.4	876.3	919.5	923.2
37.5°	7211.3	6263.7	3557.8	953.3	790.0	778.7	791.9	791.9	836.9	900.7	910.1
40°	7218.8	6145.5	3011.8	861.3	763.7	748.7	750.6	750.6	808.8	878.2	883.8
42.5°	7423.4	6175.5	2527.6	825.7	743.1	726.2	716.8	722.4	771.2	816.3	820.0
45°	7903.7	6387.5	2073.5	803.1	722.4	716.8	696.2	694.3	713.1	733.7	733.7
47.5°	8691.9	6806.0	1765.8	788.1	705.6	703.7	679.3	654.9	653.0	660.5	660.5
50°	9973.5	7526.6	1559.4	771.2	694.3	679.3	651.1	613.6	600.5	606.1	606.1
52.5°	11895.0	8811.9	1480.5	748.7	669.9	645.5	613.6	576.1	564.8	566.7	566.7
55°	14415.1	10786.0	1469.3	722.4	643.6	604.2	578.0	549.8	536.7	540.4	540.4
57.5°	17494.4	13516.3	1670.1	681.2	608.0	562.9	547.9	529.2	519.8	525.4	523.5
60°	21238.0	17089.1	2477.0	638.0	572.3	525.4	525.4	510.4	502.9	508.5	506.6
62.5°	25550.2	21193.0	3482.7	606.1	534.8	495.4	502.9	495.4	487.9	491.6	489.8
65°	29374.4	23866.9	3261.3	581.7	497.3	467.2	480.4	476.6	471.0	474.7	472.9
67.5°	29485.1	22876.2	1831.4	555.4	461.6	439.1	457.9	456.0	452.2	456.0	454.1
70°	26313.9	19316.5	1032.1	506.6	424.1	405.3	431.6	429.7	426.0	433.5	431.6
72.5°	21082.3	14017.3	754.3	446.6	386.6	369.7	399.7	397.8	397.8	409.1	403.4
75°	12131.4	7213.2	602.4	382.8	347.1	334.0	360.3	362.2	365.9	380.9	369.7
77.5°	3458.4	2248.0	491.6	324.6	298.4	292.7	319.0	322.8	324.6	341.5	326.5
80°	1285.4	1035.8	405.3	272.1	243.9	245.8	270.2	275.8	277.7	294.6	275.8
82.5°	820.0	683.0	328.4	210.2	191.4	189.5	219.5	227.1	227.1	228.9	217.7
85°	478.5	409.1	247.7	152.0	135.1	129.5	163.3	176.4	170.8	167.0	159.5
87.5°	320.9	281.5	152.0	84.4	73.2	69.4	95.7	105.1	101.3	95.7	90.1
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)