

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: P269465

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269465  
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-07-LED-E1-SL2-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA 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: 35833.9 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

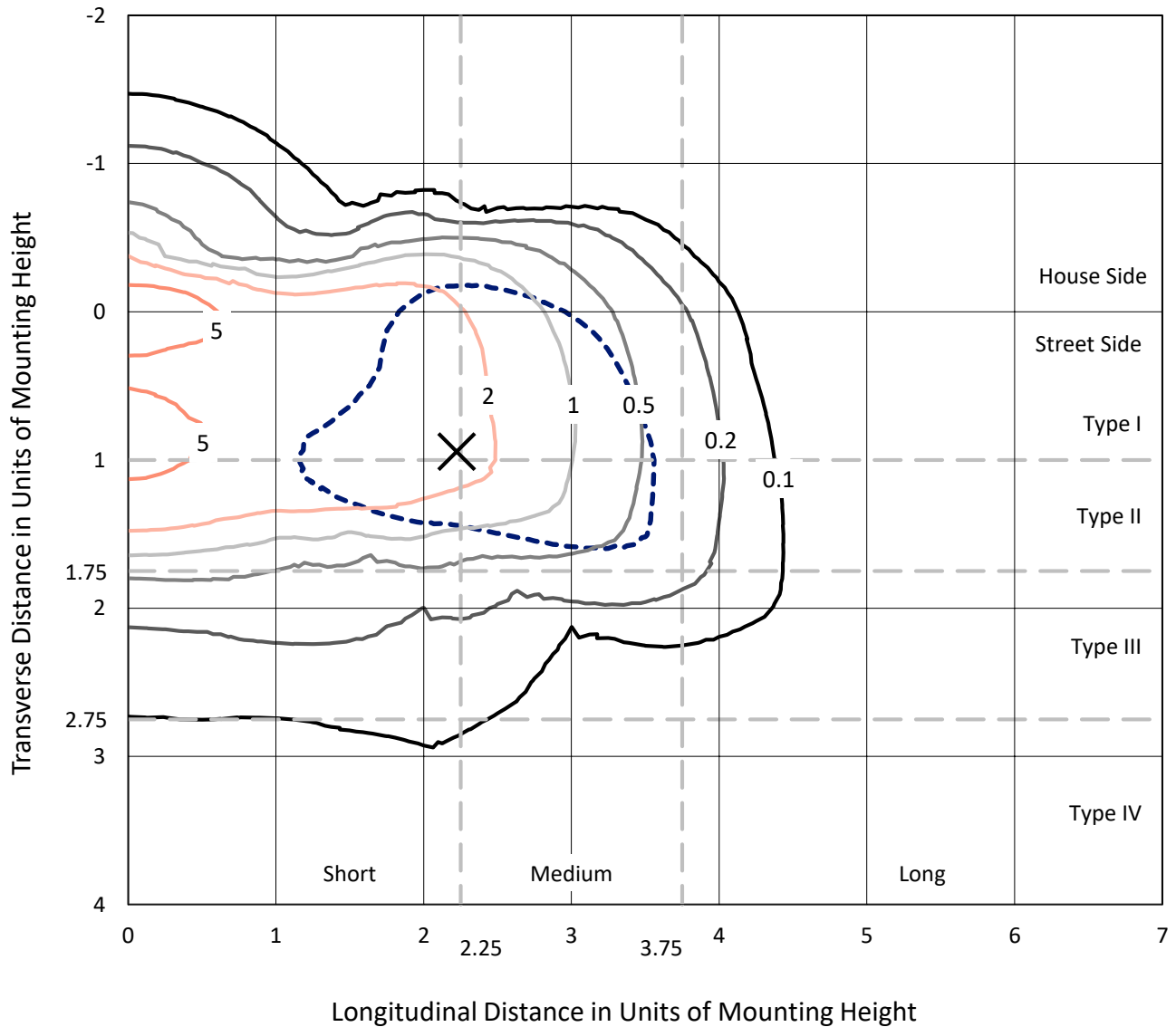
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

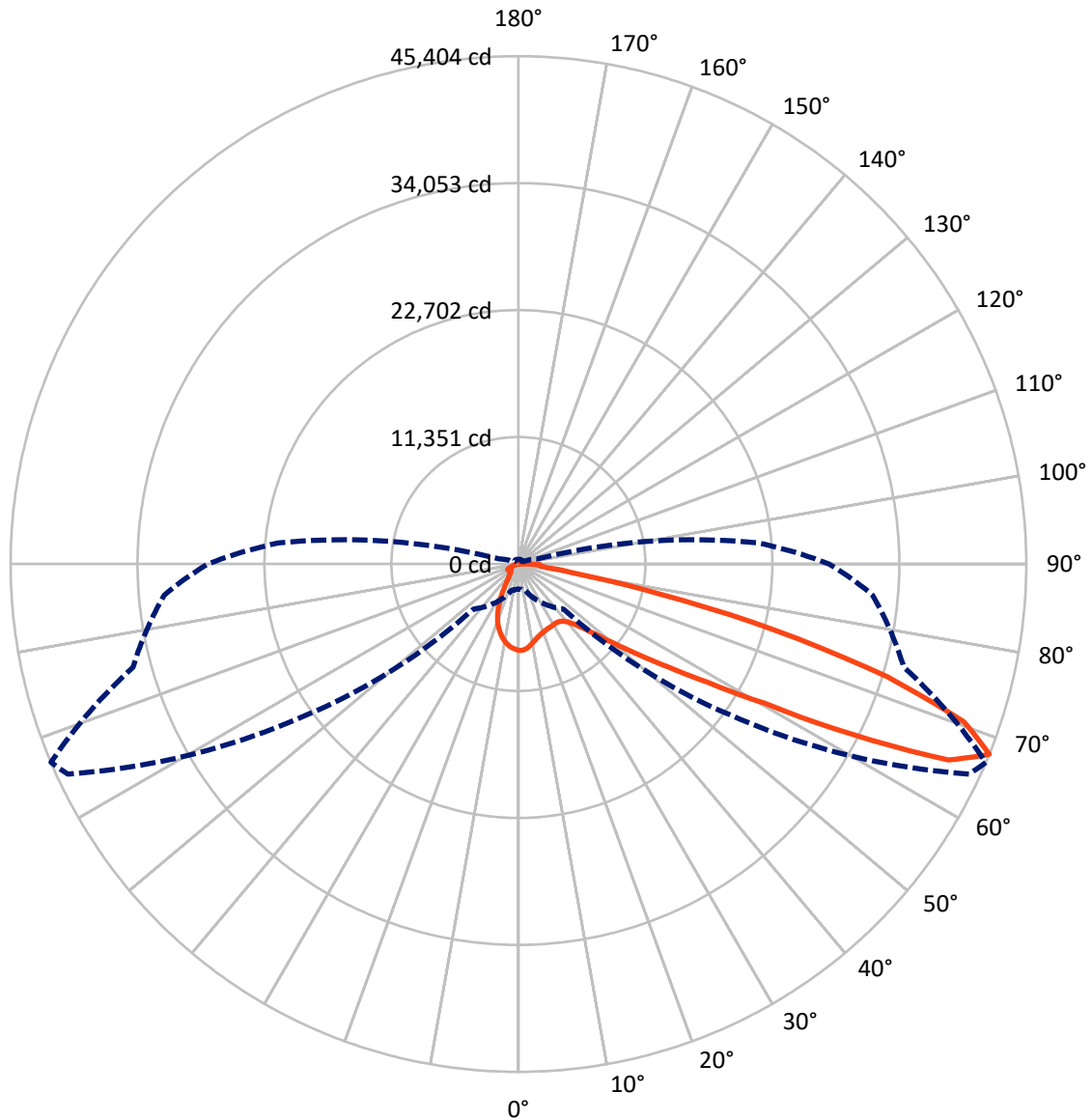
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	5937.3	0.0	5937.3
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	29896.6	0.0	29896.6
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	35833.9	0.0	35833.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	659.4	1.8
10°-20°	1525.8	4.3
20°-30°	2068.3	5.8
30°-40°	2940.2	8.2
40°-50°	4919.1	13.7
50°-60°	7782.0	21.7
60°-70°	9913.5	27.7
70°-80°	5192.7	14.5
80°-90°	832.8	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°	35833.9	100.0
0°-180°	35833.9	100.0



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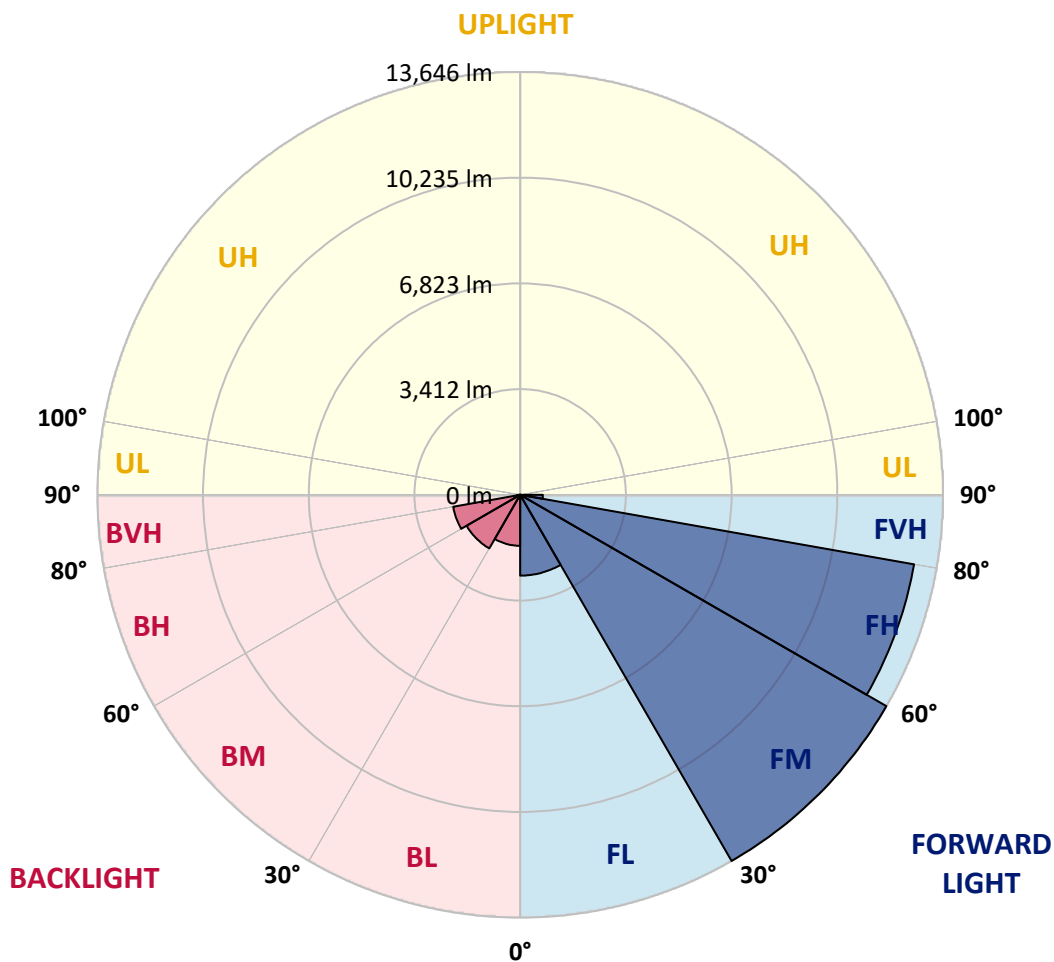
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2607.8	7.3			
FM (30°-60°)	13646.3	38.1			
FH (60°-80°)	12910.2	36.0			G5
FVH (80°-90°)	732.3	2.0			G4/750
BL (0°-30°)	1645.6	4.6	B3/2500		
BM (30°-60°)	1995.1	5.6	B2/2500		
BH (60°-80°)	2196.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	100.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2
2.5°	7411.1	7423.6	7462.5	7487.3	7598.6	7646.3	7679.8	7713.3	7718.6	7734.5	7718.6
5°	6633.7	6660.3	6732.6	6814.0	7029.4	7199.1	7377.6	7563.2	7596.7	7716.9	7750.4
7.5°	6031.1	6024.0	6084.1	6181.2	6402.2	6637.1	6949.9	7319.3	7391.8	7662.2	7792.8
10°	5591.1	5585.8	5649.4	5750.1	5960.4	6183.0	6536.4	7041.9	7144.4	7575.5	7833.5
12.5°	5266.0	5267.8	5331.4	5442.7	5656.4	5880.9	6239.5	6773.3	6904.1	7474.8	7876.0
15°	5050.5	5064.6	5115.8	5234.2	5442.7	5667.0	6018.7	6571.8	6718.6	7395.2	7923.7
17.5°	4977.9	5000.9	5018.6	5105.2	5283.7	5508.0	5852.6	6423.4	6578.8	7340.5	7966.1
20°	5045.2	5071.7	5038.0	5068.1	5181.2	5379.1	5721.8	6306.8	6465.8	7278.6	7971.4
22.5°	5333.1	5357.9	5258.9	5172.4	5165.3	5285.4	5614.0	6214.8	6379.3	7232.8	7973.1
25°	5840.2	5856.2	5690.0	5488.6	5292.5	5251.9	5538.1	6151.2	6326.3	7192.1	7939.6
27.5°	6462.2	6474.7	6283.9	5986.9	5592.8	5331.4	5511.6	6114.1	6296.2	7156.7	7883.0
30°	7218.6	7276.9	7020.7	6646.0	6071.7	5566.3	5564.6	6094.7	6262.7	7096.7	7771.6
32.5°	7992.6	8017.4	7840.5	7460.8	6716.7	5979.8	5713.0	6108.8	6253.8	7024.1	7630.4
35°	8777.2	8809.0	8694.2	8388.5	7598.6	6586.0	6002.8	6191.8	6308.5	6999.5	7531.4
37.5°	9793.2	9835.6	9676.6	9323.1	8671.2	7407.7	6485.3	6400.5	6476.4	7070.2	7501.3
40°	11399.5	11380.1	10915.3	10388.8	9844.4	8459.1	7174.5	6753.8	6798.1	7298.1	7593.3
42.5°	13269.1	13221.4	12421.0	11594.0	11134.5	9731.3	8086.3	7367.0	7358.1	7747.0	7916.7
45°	14760.6	14721.8	14000.8	12981.0	12613.6	11180.5	9264.8	8280.7	8215.2	8459.1	8513.9
47.5°	15568.2	15570.0	15154.6	14322.3	14313.6	13021.7	10779.3	9602.4	9489.3	9604.1	9545.8
50°	15285.4	15322.5	15278.4	15013.3	15865.0	15435.5	12756.7	11445.5	11217.6	11330.6	11106.3
52.5°	13917.7	13965.4	14226.8	14633.3	16517.0	18353.1	15661.8	13735.7	13470.5	13429.9	13180.8
55°	11493.3	11551.6	12085.2	13189.6	15974.6	20312.7	20245.6	16654.8	16232.6	15849.1	15743.1
57.5°	7922.0	8019.1	8877.9	10517.7	14219.8	20904.7	25704.2	20816.5	19957.6	18618.1	18642.9
60°	4465.5	4578.5	5591.1	7080.8	10678.5	20261.5	29856.8	27119.7	25306.6	21860.8	22044.5
62.5°	2839.7	2961.6	3730.3	4919.6	6407.5	16798.0	31558.5	35882.6	33580.1	25857.9	26038.2
65°	2299.0	2352.0	2714.3	4060.8	4652.9	10120.1	30266.9	43101.2	42242.4	30931.2	30090.2
67.5°	2244.2	2261.9	2449.1	3408.7	4461.9	5688.2	24142.0	44451.3	45403.8	35668.8	31777.7
70°	2217.7	2279.5	2760.2	3253.2	4272.9	4797.7	14507.8	40751.0	42254.8	36907.7	29531.7
72.5°	1076.2	1072.7	1388.9	2942.2	4813.6	4976.2	7453.5	32972.3	34481.4	31975.6	24267.5
75°	867.7	793.5	758.1	1078.0	4628.0	5138.8	4750.0	22687.8	23779.8	21438.4	14917.9
77.5°	823.4	735.2	673.3	675.0	1956.1	5449.7	4023.7	12557.0	12875.0	9683.6	4087.3
80°	682.2	600.7	556.6	627.3	947.2	5190.0	4350.6	5682.9	5214.8	2378.5	1360.7
82.5°	473.5	431.1	418.8	526.5	758.1	3698.5	5059.3	3053.6	2560.4	1191.1	839.3
85°	302.2	258.1	286.3	383.4	590.1	1707.0	5211.2	2380.2	1892.5	756.4	473.5
87.5°	139.5	113.0	141.4	212.1	385.3	588.4	4958.5	2673.6	1949.1	399.3	298.6
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°	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2	7729.2
2.5°	7732.8	7699.3	7672.8	7623.2	7568.5	7515.5	7467.8	7407.7	7389.9	7374.0	7398.8
5°	7757.6	7723.9	7626.8	7474.8	7307.0	7149.7	6992.3	6858.1	6775.0	6729.2	6755.7
7.5°	7794.7	7747.0	7545.6	7266.3	6964.1	6688.5	6403.9	6175.9	6008.1	5928.6	5951.6
10°	7828.2	7736.4	7407.7	6988.9	6547.0	6137.1	5688.2	5317.2	5041.6	4896.7	4932.0
12.5°	7842.4	7695.7	7215.0	6642.4	6036.4	5435.6	4774.8	4219.8	3823.9	3679.1	3649.1
15°	7856.4	7649.7	7002.9	6248.5	5419.7	4569.7	3643.7	2979.3	2650.7	2578.1	2562.2
17.5°	7860.1	7570.2	6762.7	5820.7	4697.0	3539.5	2491.5	2069.2	2071.0	2187.6	2201.7
20°	7822.9	7451.8	6471.1	5289.0	3831.1	2447.4	1710.6	1638.1	1904.9	2196.4	2231.8
22.5°	7738.1	7294.5	6140.6	4668.8	2839.7	1611.6	1323.6	1403.1	1747.7	2104.5	2145.2
25°	7630.4	7103.7	5750.1	3949.5	1880.2	1152.2	1109.8	1207.0	1440.3	1678.8	1701.7
27.5°	7483.7	6877.6	5311.9	3126.0	1221.1	948.9	977.1	1042.7	1138.1	1244.1	1254.7
30°	7294.5	6607.2	4843.7	2279.5	922.4	853.5	894.2	929.4	970.1	1030.3	1035.6
32.5°	7077.2	6347.5	4363.0	1574.5	818.1	804.1	835.9	853.5	885.3	922.4	926.0
35°	6895.2	6100.0	3864.7	1113.3	774.0	767.0	788.2	795.2	825.3	865.8	869.4
37.5°	6790.9	5898.6	3350.4	897.6	743.9	733.3	745.8	745.8	788.2	848.2	857.1
40°	6798.1	5787.2	2836.2	811.1	719.3	705.1	706.8	706.8	761.7	827.0	832.3
42.5°	6990.6	5815.4	2380.2	777.6	699.8	683.9	675.0	680.3	726.3	768.7	772.3
45°	7442.9	6015.2	1952.6	756.4	680.3	675.0	655.7	653.8	671.6	690.9	690.9
47.5°	8185.1	6409.2	1662.9	742.2	664.4	662.7	639.8	616.7	615.0	622.0	622.0
50°	9392.0	7087.8	1468.5	726.3	653.8	639.8	613.3	577.8	565.5	570.8	570.8
52.5°	11201.7	8298.4	1394.2	705.1	630.9	608.0	577.8	542.4	531.8	533.7	533.7
55°	13574.8	10157.2	1383.6	680.3	606.1	568.9	544.3	517.8	505.3	508.9	508.9
57.5°	16474.6	12728.4	1572.8	641.5	572.5	530.1	515.9	498.3	489.4	494.7	493.0
60°	20000.0	16093.0	2332.5	600.7	539.0	494.7	494.7	480.7	473.5	478.8	477.1
62.5°	24060.8	19957.6	3279.7	570.8	503.6	466.5	473.5	466.5	459.5	462.9	461.2
65°	27662.1	22475.8	3071.2	547.7	468.2	440.0	452.3	448.9	443.6	447.0	445.3
67.5°	27766.4	21542.7	1724.7	523.1	434.7	413.5	431.1	429.4	425.8	429.4	427.7
70°	24779.9	18190.5	971.8	477.1	399.3	381.7	406.5	404.6	401.2	408.2	406.5
72.5°	19853.4	13200.2	710.4	420.5	364.1	348.2	376.4	374.7	374.7	385.3	380.0
75°	11424.3	6792.8	567.2	360.5	327.0	314.5	339.3	341.0	344.6	358.8	348.2
77.5°	3256.7	2116.9	462.9	305.8	281.0	275.7	300.5	303.9	305.8	321.7	307.5
80°	1210.5	975.4	381.7	256.2	229.7	231.6	254.5	259.8	261.5	277.4	259.8
82.5°	772.3	643.2	309.2	197.8	180.2	178.5	206.8	213.8	213.8	215.7	205.1
85°	450.6	385.3	233.3	143.1	127.2	121.9	153.7	166.0	160.7	157.3	150.1
87.5°	302.2	265.1	143.1	79.5	68.9	65.3	90.1	99.0	95.4	90.1	84.8
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)