

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: P191903

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191903  
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-05-LED-E1-SL2-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1200mA 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: 31970 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

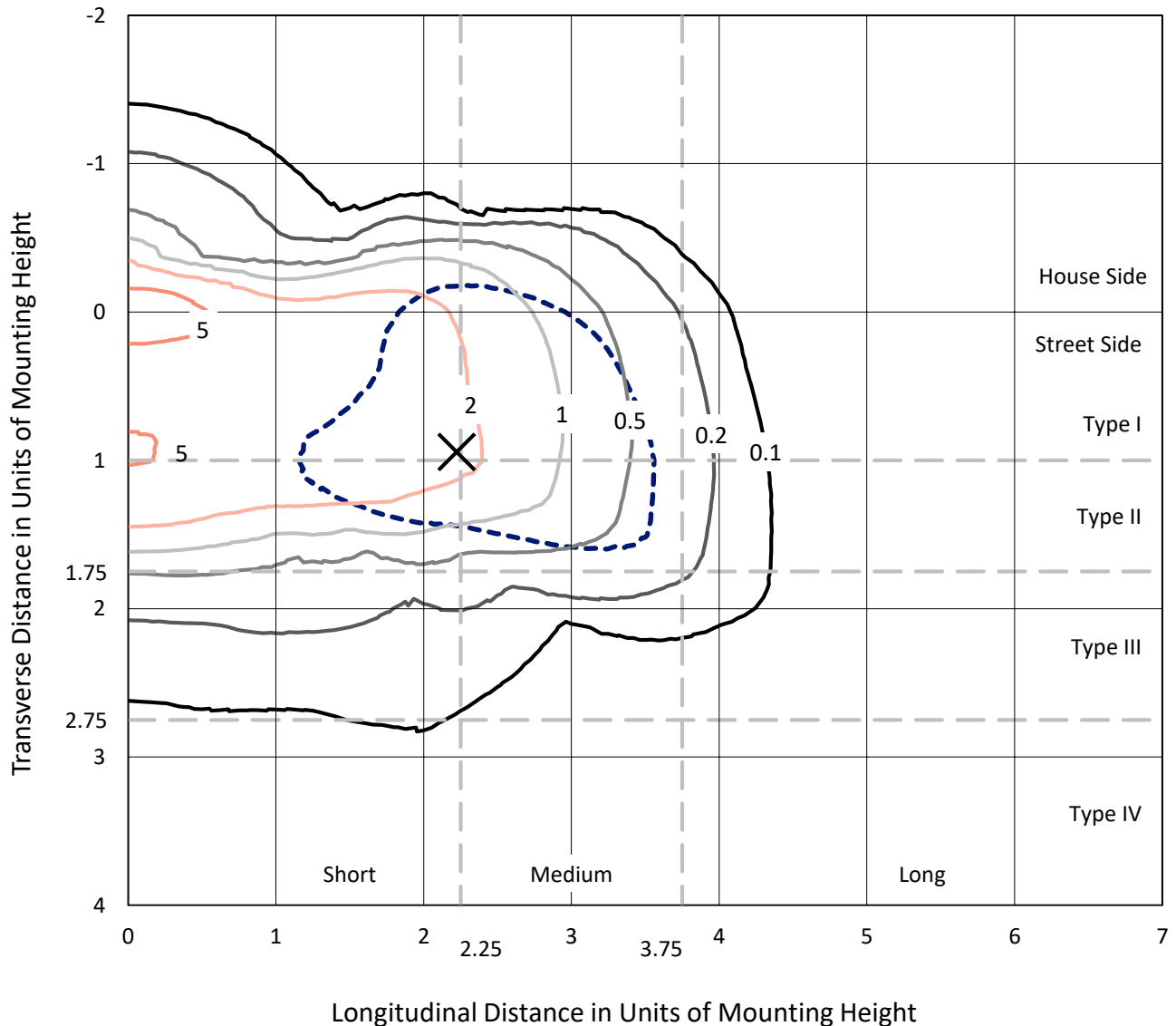


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

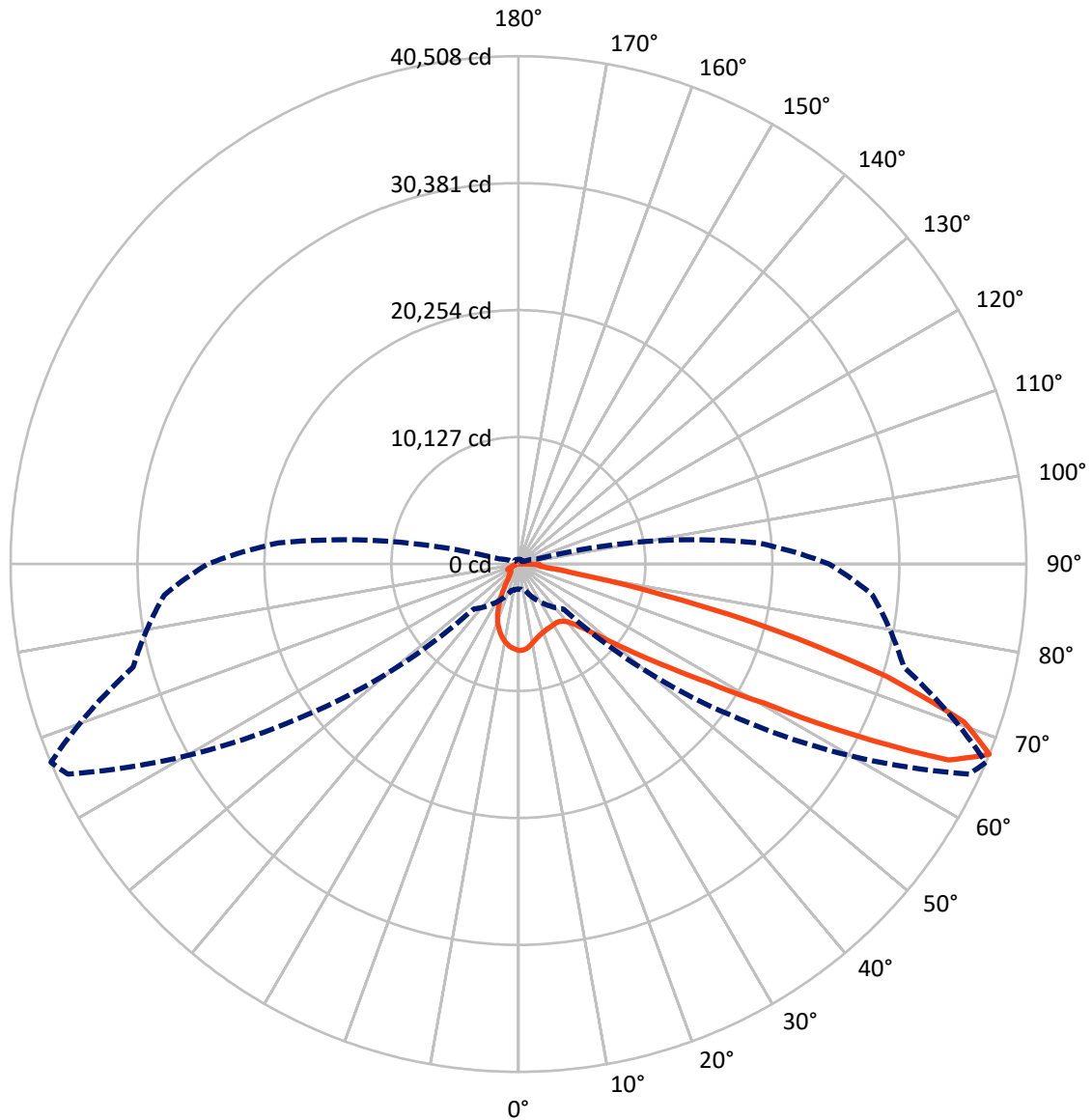


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - Semi-Cutoff

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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	5297.1	0.0	5297.1
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	26672.9	0.0	26672.9
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	31970.0	0.0	31970.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.3	1.8
10°-20°	1361.3	4.3
20°-30°	1845.2	5.8
30°-40°	2623.2	8.2
40°-50°	4388.7	13.7
50°-60°	6942.9	21.7
60°-70°	8844.6	27.7
70°-80°	4632.8	14.5
80°-90°	743.0	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°	31970.0	100.0
0°-180°	31970.0	100.0



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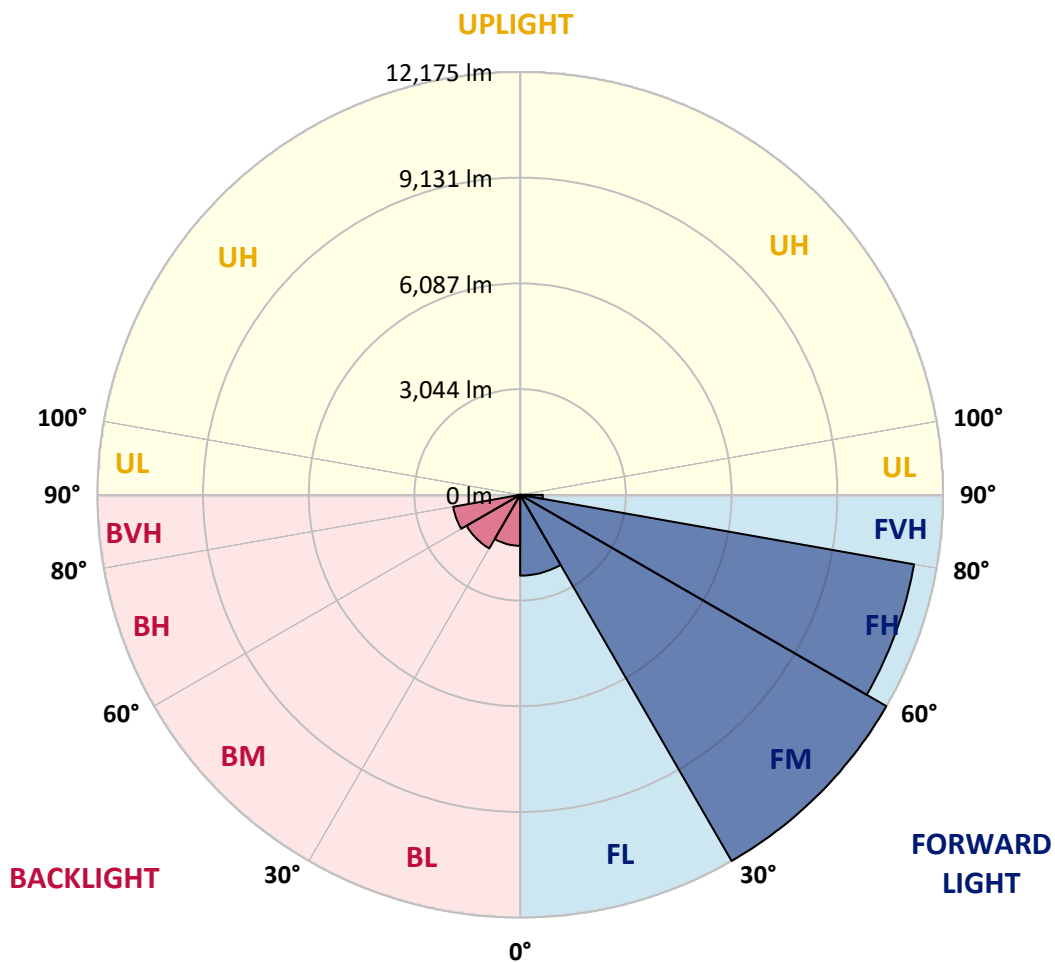
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2326.6	7.3			
FM (30°-60°)	12174.8	38.1			
FH (60°-80°)	11518.1	36.0			G4/12000
FVH (80°-90°)	653.3	2.0			G4/750
BL (0°-30°)	1468.2	4.6	B3/2500		
BM (30°-60°)	1780.0	5.6	B2/2500		
BH (60°-80°)	1959.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	89.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9
2.5°	6612.1	6623.1	6657.8	6679.9	6779.2	6821.8	6851.7	6881.7	6886.4	6900.6	6886.4
5°	5918.4	5942.0	6006.7	6079.2	6271.5	6422.9	6582.1	6747.7	6777.6	6884.8	6914.8
7.5°	5380.8	5374.5	5428.1	5514.8	5711.9	5921.5	6200.6	6530.1	6594.7	6835.9	6952.6
10°	4988.2	4983.5	5040.2	5130.1	5317.7	5516.4	5831.7	6282.6	6374.0	6758.7	6988.9
12.5°	4698.1	4699.7	4756.5	4855.8	5046.6	5246.8	5566.8	6042.9	6159.6	6668.8	7026.7
15°	4505.8	4518.4	4564.1	4669.8	4855.8	5056.0	5369.7	5863.2	5994.1	6597.9	7069.3
17.5°	4441.2	4461.7	4477.4	4554.7	4713.9	4914.1	5221.5	5730.8	5869.5	6549.0	7107.1
20°	4501.1	4524.7	4494.8	4521.6	4622.5	4799.0	5104.9	5626.7	5768.6	6493.8	7111.8
22.5°	4758.0	4780.1	4691.8	4614.6	4608.3	4715.5	5008.7	5544.7	5691.4	6452.8	7113.4
25°	5210.5	5224.7	5076.5	4896.8	4721.8	4685.5	4940.9	5488.0	5644.1	6416.6	7083.5
27.5°	5765.5	5776.5	5606.2	5341.4	4989.8	4756.5	4917.3	5454.9	5617.3	6385.0	7033.0
30°	6440.2	6492.3	6263.7	5929.4	5417.0	4966.1	4964.6	5437.5	5587.3	6331.4	6933.7
32.5°	7130.8	7152.8	6995.2	6656.2	5992.5	5335.1	5097.0	5450.1	5579.4	6266.8	6807.6
35°	7830.7	7859.1	7756.6	7483.9	6779.2	5875.8	5355.6	5524.2	5628.3	6244.7	6719.3
37.5°	8737.3	8775.1	8633.2	8317.9	7736.2	6608.9	5786.0	5710.3	5778.1	6307.8	6692.5
40°	10170.4	10153.0	9738.4	9268.6	8783.0	7547.0	6400.8	6025.6	6065.0	6511.2	6774.5
42.5°	11838.3	11795.8	11081.6	10343.8	9933.9	8682.1	7214.3	6572.7	6564.8	6911.6	7063.0
45°	13169.0	13134.3	12491.0	11581.4	11253.4	9974.9	8265.9	7387.7	7329.4	7547.0	7595.8
47.5°	13889.4	13891.0	13520.5	12778.0	12770.1	11617.6	9617.0	8567.0	8466.1	8568.6	8516.5
50°	13637.2	13670.3	13630.9	13394.4	14154.3	13771.2	11381.1	10211.3	10008.0	10108.9	9908.6
52.5°	12416.9	12459.5	12692.8	13055.5	14736.1	16374.1	13973.0	12254.6	12018.1	11981.8	11759.5
55°	10253.9	10305.9	10782.1	11767.4	14252.1	18122.5	18062.6	14859.0	14482.2	14140.1	14045.5
57.5°	7067.7	7154.4	7920.6	9383.7	12686.5	18650.6	22932.6	18571.8	17805.6	16610.6	16632.7
60°	3984.0	4084.9	4988.2	6317.3	9527.1	18076.8	26637.5	24195.4	22577.8	19503.6	19667.5
62.5°	2533.5	2642.3	3328.1	4389.1	5716.6	14986.7	28155.7	32013.5	29959.3	23069.7	23230.5
65°	2051.1	2098.4	2421.6	3622.9	4151.1	9028.9	27003.2	38453.7	37687.5	27596.0	26845.6
67.5°	2002.2	2018.0	2185.1	3041.2	3980.8	5074.9	21538.9	39658.2	40508.0	31822.8	28351.2
70°	1978.6	2033.8	2462.6	2902.4	3812.1	4280.3	12943.5	36356.9	37698.6	32927.9	26347.4
72.5°	960.1	957.0	1239.2	2625.0	4294.5	4439.6	6649.9	29416.9	30763.3	28527.8	21650.8
75°	774.1	707.9	676.3	961.7	4129.0	4584.6	4237.8	20241.4	21215.7	19126.8	13309.3
77.5°	734.7	655.8	600.7	602.2	1745.2	4862.1	3589.8	11203.0	11486.8	8639.5	3646.6
80°	608.6	536.0	496.6	559.7	845.0	4630.3	3881.5	5070.2	4652.4	2122.0	1213.9
82.5°	422.5	384.7	373.6	469.8	676.3	3299.7	4513.7	2724.3	2284.4	1062.6	748.9
85°	269.6	230.2	255.4	342.1	526.6	1523.0	4649.3	2123.6	1688.5	674.8	422.5
87.5°	124.5	100.9	126.1	189.2	343.7	525.0	4423.8	2385.3	1738.9	356.3	266.4
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°	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9	6895.9
2.5°	6899.0	6869.0	6845.4	6801.3	6752.4	6705.1	6662.5	6608.9	6593.2	6579.0	6601.0
5°	6921.1	6891.1	6804.4	6668.8	6519.1	6378.7	6238.4	6118.6	6044.5	6003.5	6027.2
7.5°	6954.2	6911.6	6731.9	6482.8	6213.2	5967.3	5713.4	5510.1	5360.3	5289.3	5309.8
10°	6984.1	6902.2	6608.9	6235.3	5841.1	5475.4	5074.9	4743.9	4497.9	4368.6	4400.2
12.5°	6996.8	6865.9	6437.1	5926.3	5385.5	4849.5	4259.9	3764.8	3411.7	3282.4	3255.6
15°	7009.4	6824.9	6247.9	5574.7	4835.3	4077.0	3250.9	2658.1	2364.8	2300.2	2286.0
17.5°	7012.5	6754.0	6033.5	5193.2	4190.5	3157.8	2222.9	1846.1	1847.7	1951.8	1964.4
20°	6979.4	6648.3	5773.3	4718.6	3418.0	2183.5	1526.1	1461.5	1699.5	1959.7	1991.2
22.5°	6903.7	6508.0	5478.5	4165.3	2533.5	1437.8	1180.8	1251.8	1559.2	1877.7	1913.9
25°	6807.6	6337.8	5130.1	3523.6	1677.5	1027.9	990.1	1076.8	1284.9	1497.7	1518.2
27.5°	6676.7	6136.0	4739.1	2788.9	1089.4	846.6	871.8	930.2	1015.3	1109.9	1119.4
30°	6508.0	5894.7	4321.3	2033.8	823.0	761.5	797.7	829.3	865.5	919.1	923.9
32.5°	6314.1	5663.0	3892.5	1404.7	729.9	717.3	745.7	761.5	789.9	823.0	826.1
35°	6151.7	5442.3	3447.9	993.2	690.5	684.2	703.1	709.4	736.3	772.5	775.7
37.5°	6058.7	5262.5	2989.1	800.9	663.7	654.3	665.3	665.3	703.1	756.7	764.6
40°	6065.0	5163.2	2530.4	723.6	641.7	629.0	630.6	630.6	679.5	737.8	742.6
42.5°	6236.9	5188.4	2123.6	693.7	624.3	610.1	602.2	607.0	648.0	685.8	689.0
45°	6640.4	5366.6	1742.1	674.8	607.0	602.2	584.9	583.3	599.1	616.4	616.4
47.5°	7302.6	5718.2	1483.5	662.2	592.8	591.2	570.7	550.2	548.6	554.9	554.9
50°	8379.4	6323.6	1310.1	648.0	583.3	570.7	547.1	515.5	504.5	509.2	509.2
52.5°	9993.8	7403.5	1243.9	629.0	562.8	542.3	515.5	484.0	474.5	476.1	476.1
55°	12111.1	9062.0	1234.4	607.0	540.8	507.7	485.6	461.9	450.9	454.0	454.0
57.5°	14698.2	11355.9	1403.1	572.3	510.8	473.0	460.4	444.6	436.7	441.4	439.9
60°	17843.4	14357.7	2081.1	536.0	480.8	441.4	441.4	428.8	422.5	427.2	425.7
62.5°	21466.4	17805.6	2926.1	509.2	449.3	416.2	422.5	416.2	409.9	413.1	411.5
65°	24679.4	20052.2	2740.1	488.7	417.8	392.6	403.6	400.4	395.7	398.9	397.3
67.5°	24772.4	19219.8	1538.7	466.7	387.8	368.9	384.7	383.1	379.9	383.1	381.5
70°	22108.0	16229.1	867.1	425.7	356.3	340.5	362.6	361.0	357.9	364.2	362.6
72.5°	17712.6	11776.9	633.8	375.2	324.8	310.6	335.8	334.2	334.2	343.7	339.0
75°	10192.4	6060.3	506.1	321.6	291.7	280.6	302.7	304.3	307.4	320.0	310.6
77.5°	2905.6	1888.7	413.1	272.7	250.7	245.9	268.0	271.2	272.7	286.9	274.3
80°	1079.9	870.3	340.5	228.6	205.0	206.5	227.0	231.8	233.3	247.5	231.8
82.5°	689.0	573.9	275.9	176.6	160.8	159.2	184.5	190.8	190.8	192.3	182.9
85°	402.0	343.7	208.1	127.7	113.5	108.8	137.2	148.2	143.5	140.3	134.0
87.5°	269.6	236.5	127.7	70.9	61.5	58.3	80.4	88.3	85.1	80.4	75.7
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)