

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: P191762

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-AFL-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19903 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 171  
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

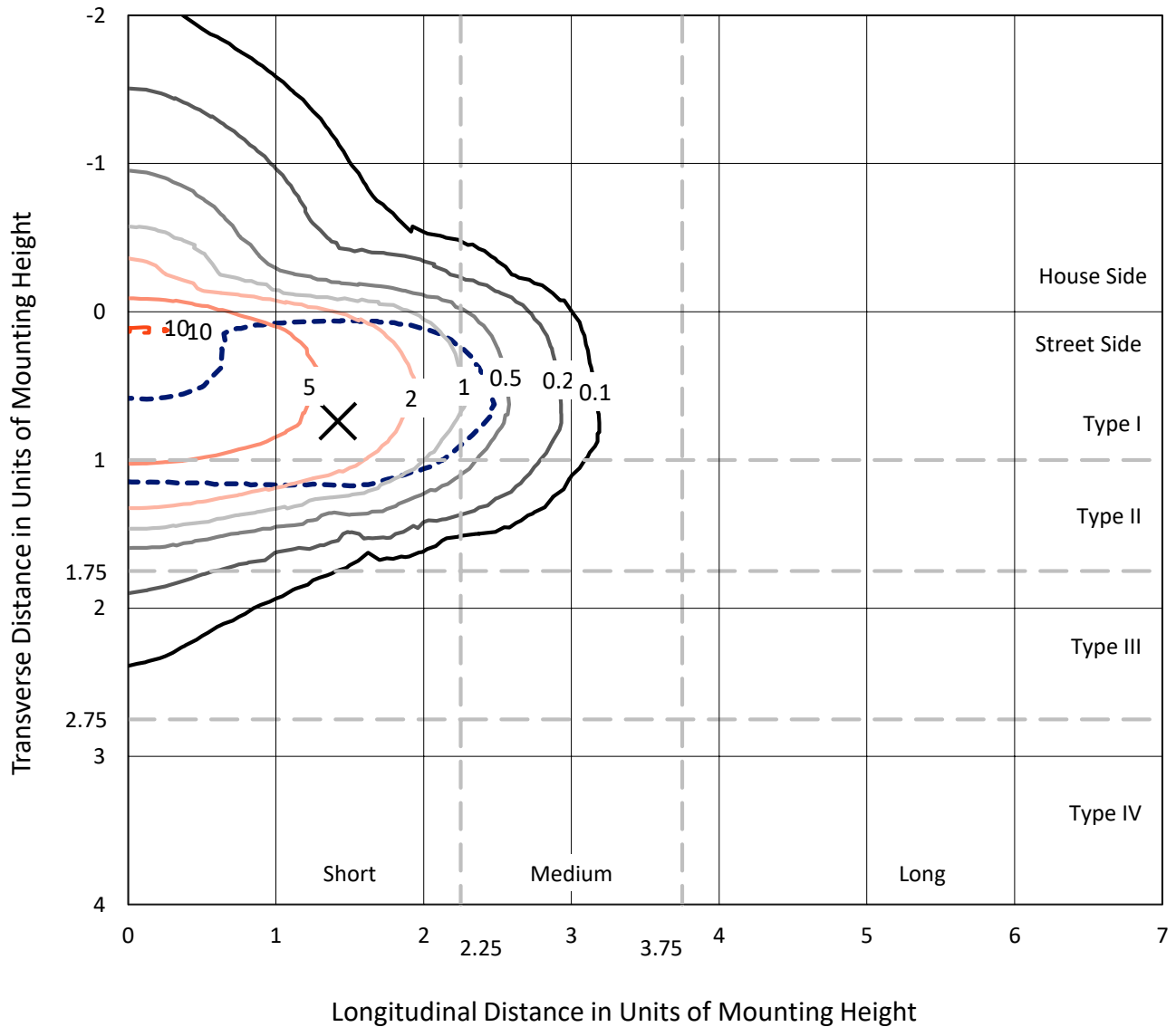


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

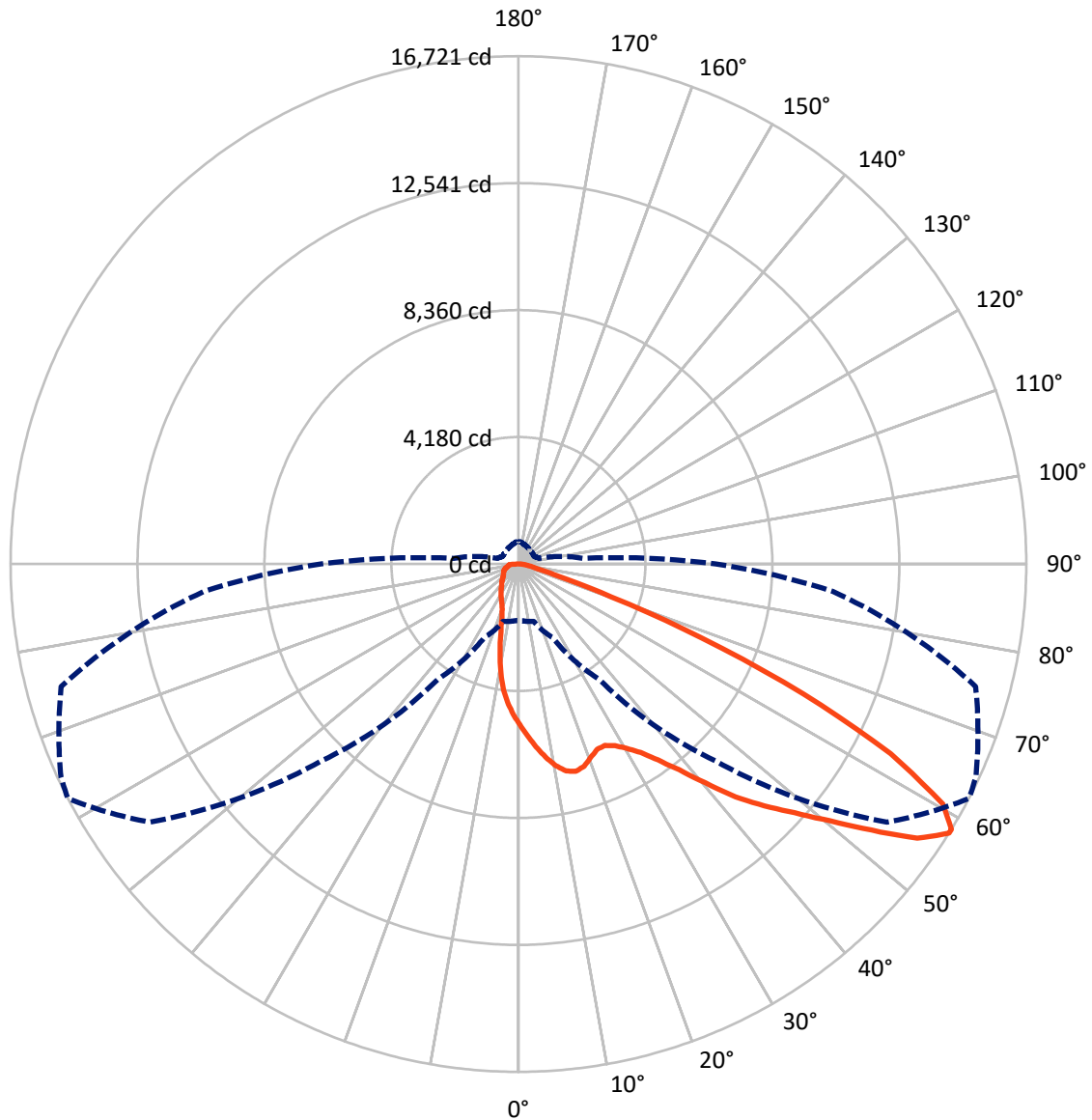


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3035.3	0.0	3035.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	16867.7	0.0	16867.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	19903.0	0.0	19903.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.8	2.4
10°-20°	1208.6	6.1
20°-30°	1953.8	9.8
30°-40°	3101.6	15.6
40°-50°	4538.3	22.8
50°-60°	4746.7	23.8
60°-70°	2804.3	14.1
70°-80°	790.0	4.0
80°-90°	286.8	1.4
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°	19903.0	100.0
0°-180°	19903.0	100.0

**Coefficient of Utilization**



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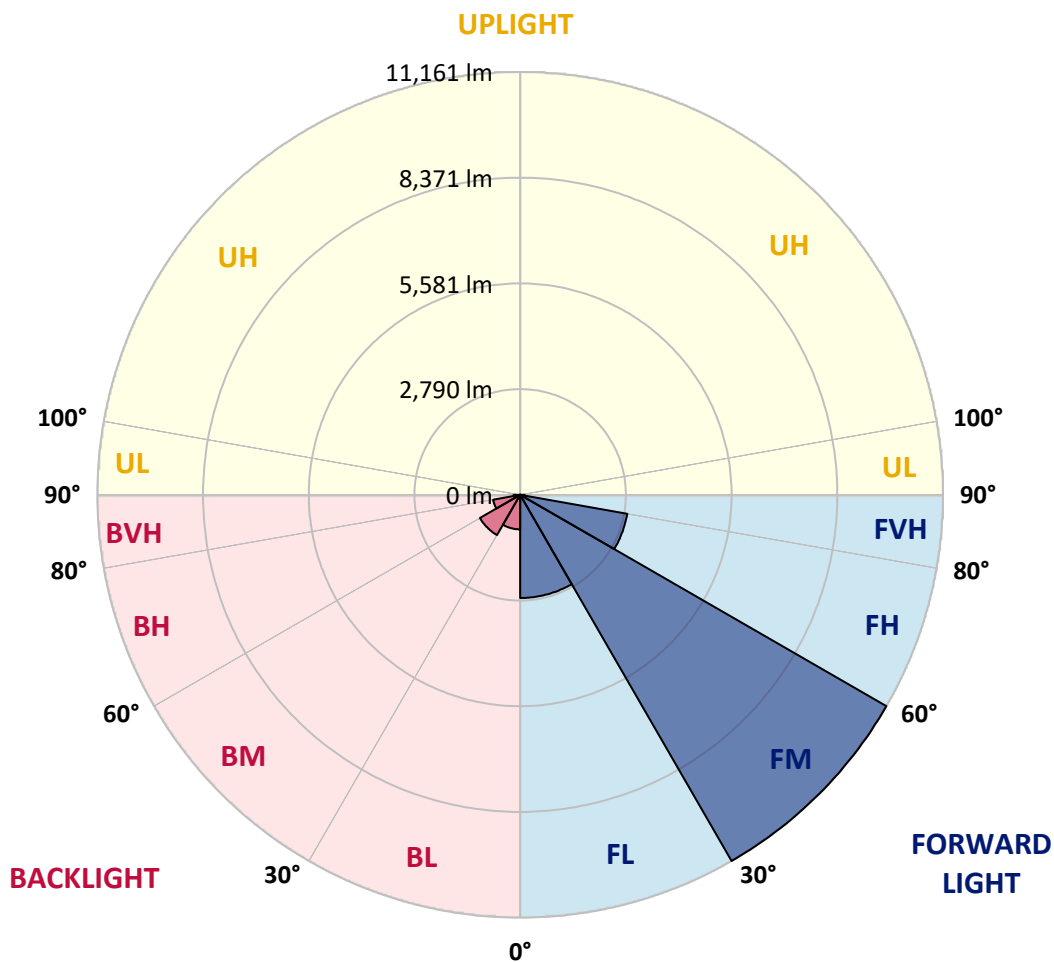
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2723.0	13.7			
FM (30°-60°)	11161.5	56.1			
FH (60°-80°)	2870.1	14.4			G2/5000
FVH (80°-90°)	113.2	0.6			G2/225
BL (0°-30°)	912.3	4.6	B2/1000		
BM (30°-60°)	1225.1	6.2	B2/2500		
BH (60°-80°)	724.2	3.6	B2/1000		G2/1000
BVH (80°-90°)	173.7	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8
2.5°	6041.3	5992.5	5961.6	5934.4	5898.8	5822.9	5720.8	5656.1	5623.3	5511.8	5379.6
5°	6633.6	6590.5	6558.6	6522.1	6458.3	6339.3	6174.4	6043.2	5978.5	5755.4	5491.1
7.5°	6494.9	6512.7	6568.0	6664.5	6747.0	6731.1	6583.9	6417.1	6331.8	6021.6	5620.5
10°	5658.9	5689.8	5785.4	6011.3	6376.8	6751.7	6866.0	6750.8	6664.5	6285.0	5753.6
12.5°	5491.1	5490.2	5497.7	5557.7	5775.1	6302.8	6875.4	6991.6	6940.1	6536.1	5889.5
15°	5559.6	5561.4	5555.8	5581.1	5648.6	5857.6	6588.6	7084.4	7121.0	6789.2	6030.0
17.5°	5739.5	5734.8	5713.3	5713.3	5737.6	5819.2	6251.2	6998.2	7166.9	7013.2	6153.7
20°	6041.3	6019.7	5962.6	5910.1	5883.8	5927.9	6112.5	6799.5	7087.2	7209.1	6255.9
22.5°	6406.8	6389.9	6297.1	6184.7	6093.8	6092.8	6183.7	6626.1	6949.4	7393.7	6342.1
25°	6879.2	6852.0	6714.2	6534.3	6374.9	6314.0	6339.3	6617.7	6874.5	7594.2	6419.0
27.5°	7434.0	7384.3	7221.2	6961.6	6727.3	6604.6	6568.0	6770.4	6942.9	7842.6	6525.8
30°	8106.9	8049.7	7840.7	7502.4	7171.6	6970.1	6892.3	7041.3	7169.7	8145.3	6697.3
32.5°	8872.6	8790.1	8548.3	8175.3	7740.5	7433.0	7306.5	7399.3	7501.5	8509.9	6912.0
35°	9930.7	9832.3	9482.7	8968.2	8477.1	8054.4	7852.0	7919.5	8018.8	9053.5	7222.2
37.5°	10652.4	10608.3	10375.9	9892.3	9358.1	8871.7	8558.6	8598.0	8654.2	9733.0	7619.6
40°	10645.8	10663.6	10668.3	10673.0	10309.4	9843.6	9507.1	9465.9	9454.6	10479.0	8071.3
42.5°	10112.5	10185.6	10421.8	10900.7	11121.9	10908.2	10599.9	10480.9	10421.8	11358.1	8550.2
45°	9296.2	9335.6	9778.0	10713.3	11538.0	11962.6	11729.2	11354.4	11247.5	12166.0	8947.6
47.5°	8875.4	8918.5	9196.9	10216.6	11533.4	12814.5	12949.5	12235.3	12044.1	12868.9	9290.6
50°	7873.5	7963.5	8314.0	9352.5	11112.6	13206.3	14225.0	13285.0	12889.5	13553.1	9634.6
52.5°	6033.8	6172.5	6565.2	7931.6	10045.1	13012.3	15245.7	14557.8	13999.2	14261.6	9929.8
55°	3806.0	3909.1	4239.0	5601.7	8035.7	12002.9	15632.7	15934.5	15437.8	14932.6	10185.6
57.5°	2069.4	2115.3	2239.0	3092.8	5226.8	9771.4	15068.5	16718.0	16511.8	15502.5	10378.7
58°	1851.9	1882.9	1959.7	2680.4	4635.5	9161.3	14818.3	16720.8	16617.7	15585.9	10393.7
60°	1374.0	1358.0	1289.6	1529.5	2580.2	6329.0	13305.6	16051.7	16354.4	15688.0	10320.6
62.5°	1207.1	1168.7	1029.1	1013.1	1254.9	2915.7	10181.0	13749.9	14465.0	15105.1	9876.4
65°	1134.0	1092.8	912.8	854.7	905.3	1233.4	5997.2	10312.2	11209.1	13337.5	8740.5
67.5°	1079.7	1026.2	838.8	759.1	762.9	815.4	2404.0	6494.9	7504.3	10126.6	6798.6
70°	1027.2	969.1	776.0	684.2	662.6	644.8	956.0	3251.2	4166.9	6396.5	4334.6
72.5°	971.0	913.8	720.7	625.1	582.9	523.9	624.2	1329.9	1857.6	3026.3	1966.3
75°	889.4	837.9	665.4	572.6	512.7	433.9	471.4	694.5	833.2	1205.3	947.5
77.5°	789.1	747.0	603.6	529.5	454.5	352.4	362.7	481.7	534.2	689.8	563.3
80°	567.0	582.0	537.0	476.1	404.9	285.9	278.4	351.5	379.6	443.3	366.5
82.5°	398.3	406.8	444.2	388.9	334.6	224.9	205.2	247.4	264.3	291.5	197.8
85°	274.6	265.2	304.6	270.9	241.8	150.0	140.6	167.8	178.1	180.9	102.2
87.5°	164.9	164.9	176.2	145.3	130.3	77.8	75.9	95.6	102.2	97.5	56.2
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°	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8	5286.8
2.5°	5300.9	5234.3	5092.8	4979.4	4836.0	4687.0	4603.6	4514.6	4453.6	4409.6	4479.9
5°	5341.2	5205.3	4912.9	4635.5	4329.0	4010.3	3768.5	3543.6	3387.1	3289.6	3381.5
7.5°	5404.9	5195.9	4730.1	4255.9	3705.7	3175.3	2701.1	2404.0	2230.6	2145.3	2198.7
10°	5478.0	5180.9	4515.5	3741.4	2954.1	2285.9	1931.6	1811.6	1772.3	1756.3	1763.8
12.5°	5538.9	5149.1	4252.1	3119.0	2218.4	1805.1	1702.9	1700.1	1708.5	1710.4	1713.2
15°	5582.0	5102.2	3861.3	2470.5	1774.1	1644.8	1639.2	1656.1	1672.0	1678.6	1682.3
17.5°	5611.1	5005.7	3419.9	1953.2	1589.5	1567.0	1580.1	1601.7	1618.6	1623.3	1627.0
20°	5608.3	4864.1	2894.1	1628.9	1489.2	1489.2	1511.7	1528.6	1529.5	1523.9	1526.7
22.5°	5579.2	4670.1	2384.3	1456.4	1400.2	1416.1	1438.6	1422.7	1357.1	1314.0	1316.8
25°	5530.5	4438.6	1947.5	1346.8	1317.7	1345.8	1339.3	1219.3	1125.6	1083.4	1083.4
27.5°	5487.4	4165.0	1612.0	1251.2	1235.2	1269.9	1153.7	1045.0	1005.6	985.9	979.4
30°	5456.5	3869.8	1388.0	1159.3	1157.5	1132.2	1000.9	971.0	964.4	948.5	942.8
32.5°	5464.0	3570.8	1244.6	1078.7	1085.3	969.1	927.8	934.4	928.8	911.9	904.4
35°	5525.8	3286.8	1150.9	1005.6	985.9	875.4	884.7	896.9	895.0	871.6	864.1
37.5°	5636.4	3017.8	1089.0	944.7	860.4	828.5	843.5	862.2	857.6	841.6	836.0
40°	5752.6	2764.8	1038.4	896.9	786.3	796.6	809.8	820.1	824.7	829.4	825.7
42.5°	5866.0	2500.5	976.6	848.2	755.4	766.6	772.3	782.6	807.9	825.7	824.7
45°	5933.5	2252.1	912.8	778.8	731.0	737.6	733.8	754.5	785.4	814.4	815.4
47.5°	6008.5	2059.1	862.2	715.1	707.6	712.3	701.0	721.7	749.8	785.4	789.1
50°	6099.4	1943.8	821.9	664.5	675.7	675.7	672.9	691.7	731.0	772.3	779.8
52.5°	6202.5	1921.3	788.2	627.9	643.9	642.9	645.7	673.9	717.0	757.3	763.8
55°	6328.1	1982.2	751.6	600.8	612.9	616.7	626.1	657.9	694.5	740.4	743.2
57.5°	6474.3	2105.9	722.6	579.2	584.8	597.0	612.0	641.1	680.4	731.0	733.8
58°	6498.6	2132.2	717.9	577.3	579.2	593.3	610.1	638.2	677.6	732.9	735.7
60°	6499.6	2219.3	707.6	568.9	557.6	581.1	599.8	627.9	672.9	739.5	746.0
62.5°	6269.0	2218.4	700.1	556.7	535.1	564.2	585.8	618.6	668.2	755.4	768.5
65°	5520.2	2015.9	664.5	538.0	517.3	549.2	573.6	612.0	681.4	824.7	833.2
67.5°	4317.7	1652.3	597.9	511.7	493.9	534.2	566.1	611.1	695.4	840.7	846.3
70°	2854.8	1236.2	524.8	481.7	469.5	516.4	569.8	642.9	679.5	806.9	791.9
72.5°	1481.7	867.9	465.8	444.2	441.4	500.5	624.2	639.2	663.5	759.1	740.4
75°	777.9	602.6	414.2	403.0	407.7	496.7	736.7	622.3	642.9	726.3	762.0
77.5°	476.1	486.4	370.2	365.5	374.9	485.5	735.7	600.8	612.9	668.2	707.6
80°	318.7	394.6	336.5	337.4	344.0	444.2	660.7	567.0	576.4	631.7	672.0
82.5°	201.5	233.4	305.5	321.5	313.0	366.5	561.4	516.4	529.5	722.6	763.8
85°	102.2	146.2	265.2	309.3	282.1	256.8	455.5	452.7	459.2	521.1	544.5
87.5°	46.9	80.6	207.1	269.9	212.7	160.3	330.8	335.5	361.8	370.2	370.2
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)