

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: P191781

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191781  
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-03-LED-E1-AFL-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20452 lumens  
Efficiency: N/A  
Efficacy: 107.1 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): 191  
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

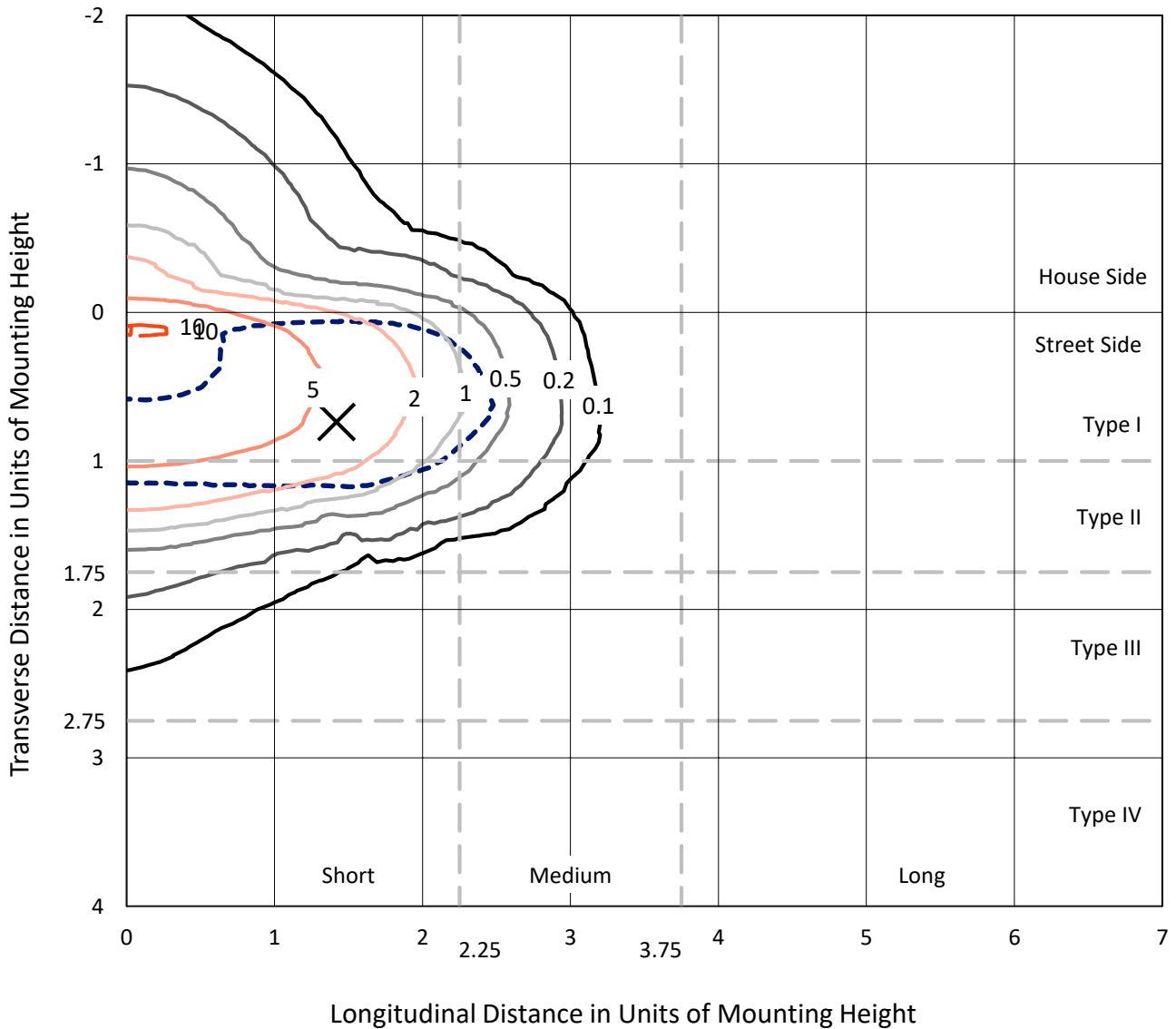


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

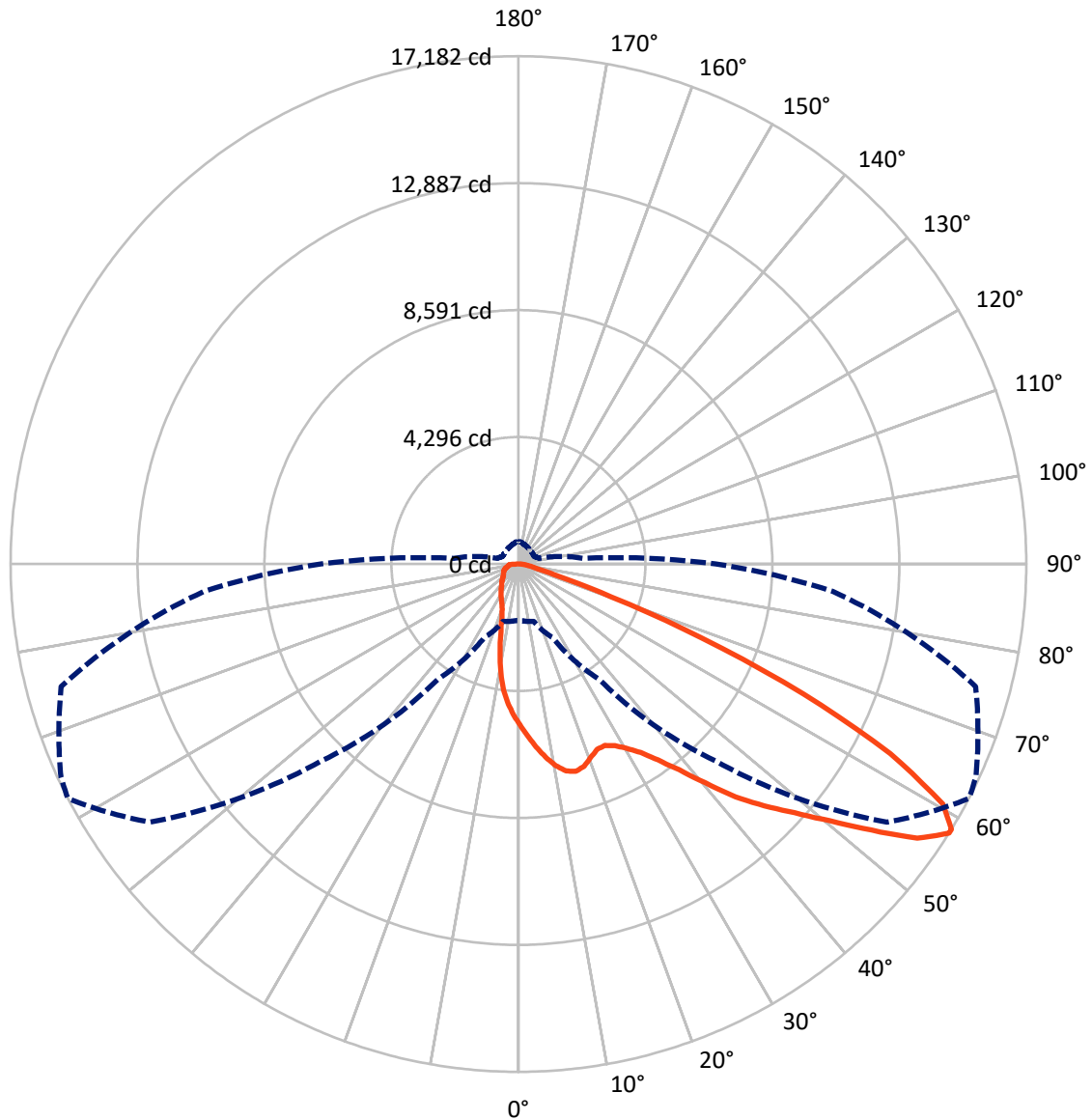


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - Full Cutoff

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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	3119.0	0.0	3119.0
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	17333.0	0.0	17333.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	20452.0	0.0	20452.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.9	2.4
10°-20°	1242.0	6.1
20°-30°	2007.7	9.8
30°-40°	3187.2	15.6
40°-50°	4663.5	22.8
50°-60°	4877.6	23.8
60°-70°	2881.7	14.1
70°-80°	811.8	4.0
80°-90°	294.7	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°	20452.0	100.0
0°-180°	20452.0	100.0

**Coefficient of Utilization**



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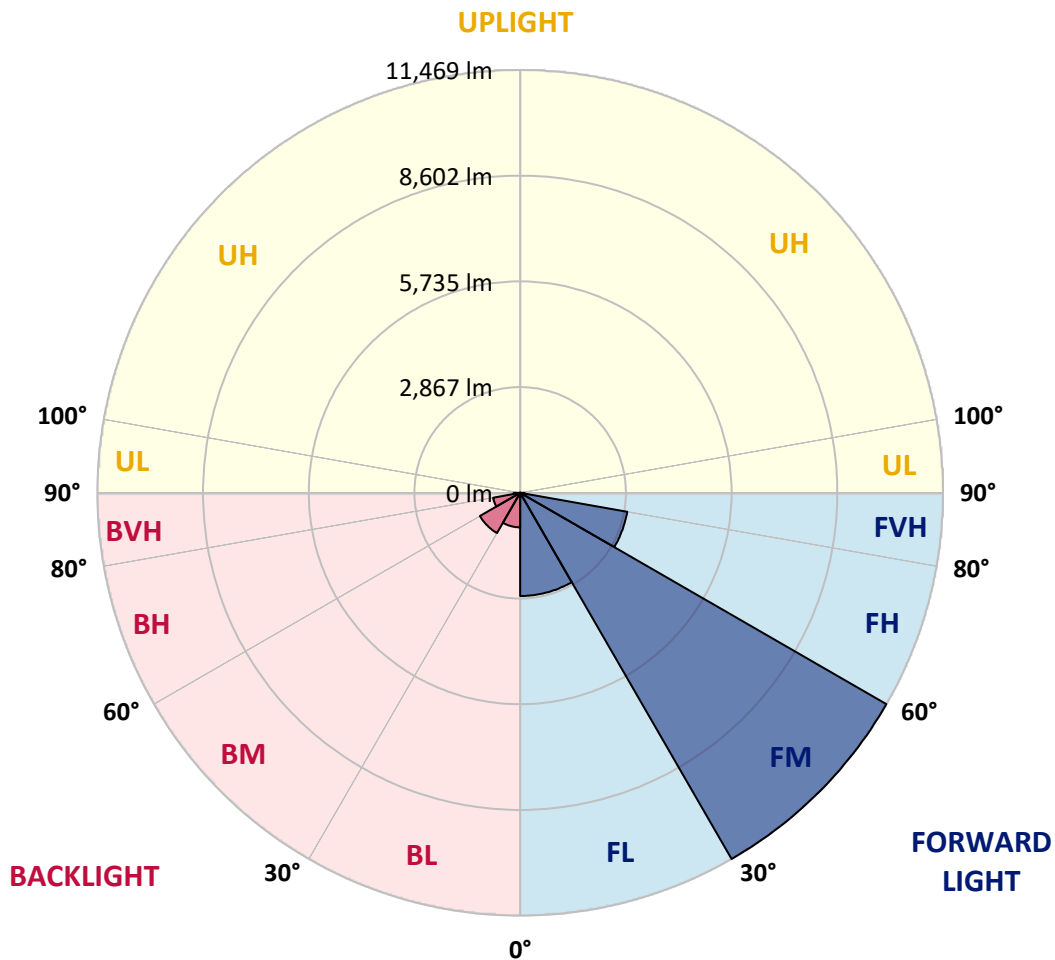
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2798.1	13.7			
FM	(30°-60°)	11469.4	56.1			
FH	(60°-80°)	2949.3	14.4			G2/5000
FVH	(80°-90°)	116.3	0.6			G2/225
BL	(0°-30°)	937.4	4.6	B2/1000		
BM	(30°-60°)	1258.9	6.2	B2/2500		
BH	(60°-80°)	744.2	3.6	B2/1000		G2/1000
BVH	(80°-90°)	178.5	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°	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7
2.5°	6207.9	6157.8	6126.1	6098.1	6061.5	5983.5	5878.6	5812.1	5778.4	5663.8	5528.0
5°	6816.6	6772.3	6739.5	6702.0	6636.5	6514.2	6344.7	6209.9	6143.4	5914.2	5642.6
7.5°	6674.0	6692.3	6749.2	6848.4	6933.1	6916.7	6765.5	6594.1	6506.5	6187.7	5775.5
10°	5815.0	5846.8	5945.0	6177.1	6552.7	6937.9	7055.4	6937.0	6848.4	6458.3	5912.3
12.5°	5642.6	5641.6	5649.3	5711.0	5934.4	6476.6	7065.1	7184.5	7131.5	6716.4	6051.9
15°	5712.9	5714.8	5709.1	5735.1	5804.4	6019.2	6770.4	7279.8	7317.4	6976.5	6196.4
17.5°	5897.8	5893.0	5870.9	5870.9	5895.9	5979.7	6423.7	7191.2	7364.6	7206.6	6323.5
20°	6207.9	6185.8	6127.0	6073.1	6046.1	6091.4	6281.1	6987.0	7282.7	7407.9	6428.5
22.5°	6583.5	6566.2	6470.8	6355.3	6261.9	6260.9	6354.3	6808.9	7141.1	7597.6	6517.1
25°	7068.9	7041.0	6899.4	6714.5	6550.8	6488.2	6514.2	6800.2	7064.1	7803.7	6596.0
27.5°	7639.0	7588.0	7420.4	7153.7	6912.9	6786.7	6749.2	6957.2	7134.4	8058.9	6705.8
30°	8330.5	8271.8	8057.0	7709.3	7369.4	7162.3	7082.4	7235.5	7367.5	8370.0	6882.1
32.5°	9117.3	9032.6	8784.1	8400.8	7954.0	7638.1	7508.1	7603.4	7708.4	8744.6	7102.6
35°	10204.7	10103.5	9744.3	9215.6	8710.9	8276.6	8068.6	8137.9	8240.0	9303.2	7421.4
37.5°	10946.2	10900.9	10662.1	10165.2	9616.2	9116.4	8794.7	8835.2	8893.0	10001.4	7829.7
40°	10939.5	10957.8	10962.6	10967.4	10593.7	10115.1	9769.3	9727.0	9715.4	10768.0	8293.9
42.5°	10391.5	10466.6	10709.3	11201.4	11428.7	11209.1	10892.3	10770.0	10709.3	11671.4	8786.1
45°	9552.7	9593.1	10047.7	11008.8	11856.3	12292.6	12052.8	11667.5	11557.8	12501.6	9194.4
47.5°	9120.2	9164.5	9450.6	10498.4	11851.5	13168.0	13306.7	12572.8	12376.4	13223.9	9546.9
50°	8090.7	8183.2	8543.4	9610.4	11419.1	13570.6	14617.4	13651.5	13245.1	13926.9	9900.3
52.5°	6200.2	6342.8	6746.3	8150.4	10322.1	13371.2	15666.2	14959.3	14385.3	14655.0	10203.7
55°	3911.0	4016.9	4355.9	5756.2	8257.3	12334.0	16063.9	16374.1	15863.6	15344.5	10466.6
57.5°	2126.5	2173.6	2300.8	3178.1	5371.0	10040.9	15484.2	17179.2	16967.3	15930.1	10665.0
58°	1903.0	1934.8	2013.8	2754.4	4763.3	9414.0	15227.0	17182.1	17076.1	16015.8	10680.4
60°	1411.9	1395.5	1325.2	1571.7	2651.3	6503.6	13672.7	16494.4	16805.5	16120.8	10605.3
62.5°	1240.4	1200.9	1057.4	1041.1	1289.5	2996.1	10461.8	14129.1	14864.0	15521.7	10148.8
65°	1165.3	1122.9	938.0	878.3	930.3	1267.4	6162.7	10596.6	11518.3	13705.4	8981.6
67.5°	1109.5	1054.6	861.9	780.1	783.9	837.9	2470.3	6674.0	7711.3	10405.9	6986.1
70°	1055.5	995.8	797.4	703.0	680.9	662.6	982.3	3340.9	4281.8	6572.9	4454.2
72.5°	997.7	939.0	740.6	642.4	599.0	538.4	641.4	1366.6	1908.8	3109.7	2020.5
75°	913.9	861.0	683.8	588.4	526.8	445.9	484.4	713.6	856.2	1238.5	973.7
77.5°	810.9	767.6	620.2	544.1	467.1	362.1	372.7	495.0	548.9	708.8	578.8
80°	582.7	598.1	551.8	489.2	416.0	293.7	286.0	361.1	390.0	455.5	376.6
82.5°	409.3	418.0	456.5	399.7	343.8	231.1	210.9	254.2	271.6	299.5	203.2
85°	282.2	272.5	313.0	278.3	248.5	154.1	144.5	172.4	183.0	185.9	105.0
87.5°	169.5	169.5	181.1	149.3	133.9	79.9	78.0	98.2	105.0	100.2	57.8
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°	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7	5432.7
2.5°	5447.1	5378.7	5233.3	5116.8	4969.4	4816.3	4730.6	4639.1	4576.5	4531.2	4603.5
5°	5488.5	5348.9	5048.4	4763.3	4448.4	4121.0	3872.5	3641.4	3480.5	3380.4	3474.7
7.5°	5554.0	5339.2	4860.6	4373.3	3808.0	3262.9	2775.6	2470.3	2292.1	2204.5	2259.4
10°	5629.1	5323.8	4640.1	3844.6	3035.6	2348.9	1984.9	1861.6	1821.2	1804.8	1812.5
12.5°	5691.7	5291.1	4369.4	3205.1	2279.6	1854.9	1749.9	1747.0	1755.7	1757.6	1760.5
15°	5736.0	5242.9	3967.8	2538.6	1823.1	1690.2	1684.4	1701.7	1718.1	1724.9	1728.7
17.5°	5765.9	5143.7	3514.2	2007.0	1633.4	1610.2	1623.7	1645.9	1663.2	1668.0	1671.9
20°	5763.0	4998.3	2973.9	1673.8	1530.3	1530.3	1553.4	1570.8	1571.7	1565.9	1568.8
22.5°	5733.1	4799.0	2450.0	1496.6	1438.8	1455.2	1478.3	1461.9	1394.5	1350.2	1353.1
25°	5683.1	4561.1	2001.3	1383.9	1354.1	1383.0	1376.2	1252.9	1156.6	1113.3	1113.3
27.5°	5638.8	4279.9	1656.5	1285.7	1269.3	1305.0	1185.5	1073.8	1033.4	1013.1	1006.4
30°	5607.0	3976.5	1426.3	1191.3	1189.4	1163.4	1028.6	997.7	991.0	974.6	968.8
32.5°	5614.7	3669.3	1279.0	1108.5	1115.2	995.8	953.4	960.2	954.4	937.1	929.4
35°	5678.2	3377.5	1182.6	1033.4	1013.1	899.5	909.1	921.7	919.7	895.7	887.9
37.5°	5791.9	3101.1	1119.1	970.8	884.1	851.4	866.8	886.0	881.2	864.8	859.1
40°	5911.3	2841.0	1067.1	921.7	808.0	818.6	832.1	842.7	847.5	852.3	848.5
42.5°	6027.8	2569.5	1003.5	871.6	776.2	787.8	793.6	804.2	830.2	848.5	847.5
45°	6097.2	2314.2	938.0	800.3	751.2	757.9	754.1	775.3	807.0	836.9	837.9
47.5°	6174.2	2115.9	886.0	734.8	727.1	731.9	720.4	741.6	770.5	807.0	810.9
50°	6267.6	1997.4	844.6	682.8	694.4	694.4	691.5	710.7	751.2	793.6	801.3
52.5°	6373.6	1974.3	809.9	645.3	661.6	660.7	663.6	692.4	736.7	778.2	784.9
55°	6502.6	2036.9	772.4	617.3	629.8	633.7	643.3	676.1	713.6	760.8	763.7
57.5°	6652.9	2164.0	742.5	595.2	601.0	613.5	628.9	658.7	699.2	751.2	754.1
58°	6677.9	2191.0	737.7	593.2	595.2	609.6	627.0	655.8	696.3	753.1	756.0
60°	6678.9	2280.5	727.1	584.6	573.0	597.1	616.4	645.3	691.5	759.9	766.6
62.5°	6442.0	2279.6	719.4	572.1	549.9	579.8	601.9	635.6	686.7	776.2	789.7
65°	5672.5	2071.6	682.8	552.8	531.6	564.4	589.4	628.9	700.1	847.5	856.2
67.5°	4436.8	1697.9	614.4	525.8	507.5	548.9	581.7	627.9	714.6	863.9	869.6
70°	2933.5	1270.3	539.3	495.0	482.5	530.6	585.5	660.7	698.2	829.2	813.8
72.5°	1522.6	891.8	478.6	456.5	453.6	514.3	641.4	656.8	681.9	780.1	760.8
75°	799.3	619.3	425.7	414.1	418.9	510.4	757.0	639.5	660.7	746.4	783.0
77.5°	489.2	499.8	380.4	375.6	385.2	498.9	756.0	617.3	629.8	686.7	727.1
80°	327.4	405.5	345.7	346.7	353.4	456.5	679.0	582.7	592.3	649.1	690.5
82.5°	207.1	239.8	314.0	330.3	321.7	376.6	576.9	530.6	544.1	742.5	784.9
85°	105.0	150.2	272.5	317.8	289.9	263.9	468.1	465.2	471.9	535.5	559.5
87.5°	48.2	82.8	212.8	277.4	218.6	164.7	340.0	344.8	371.7	380.4	380.4
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)