

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: P193512

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193512  
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-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20101 lumens  
Efficiency: N/A  
Efficacy: 89.3 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

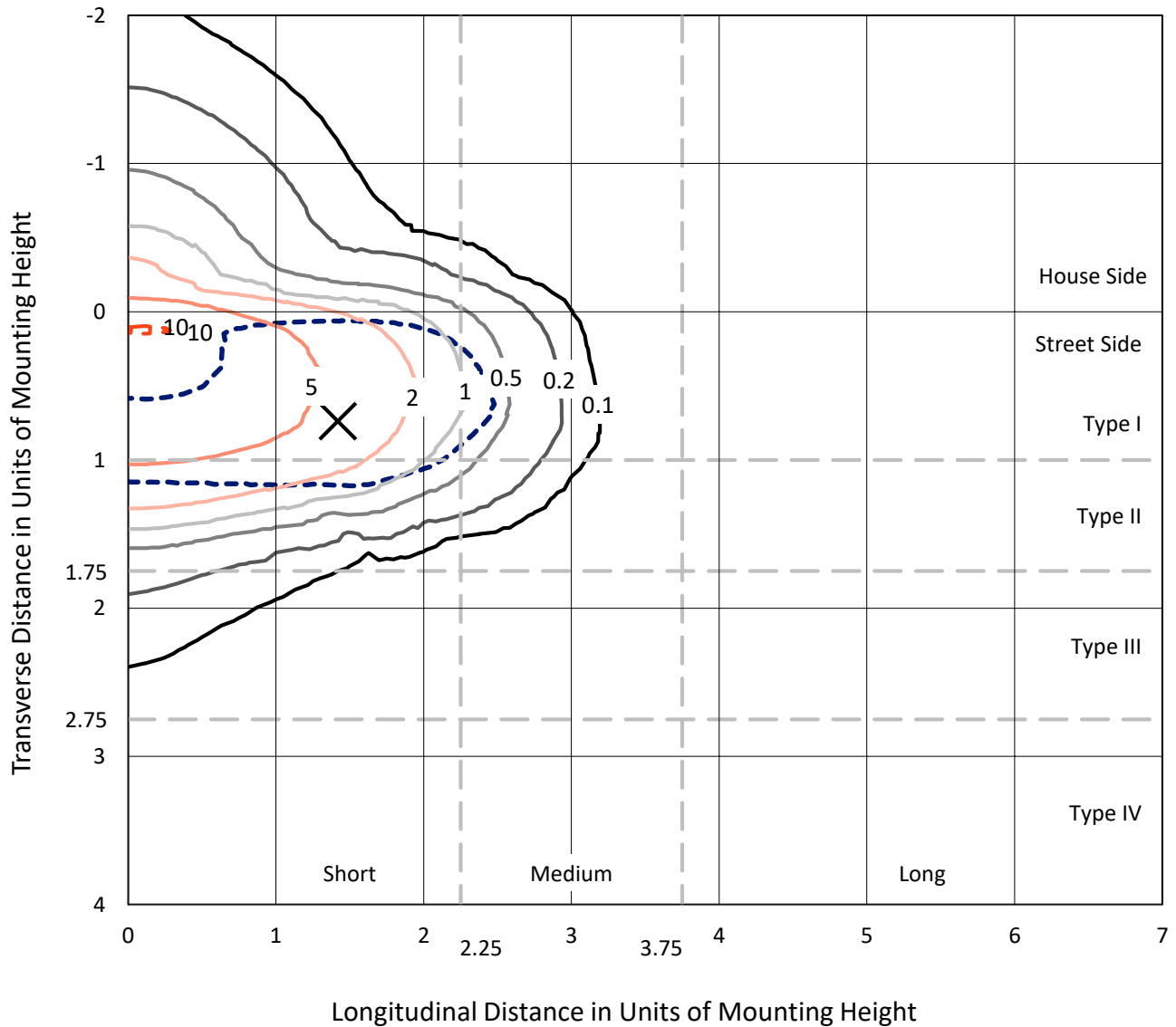
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

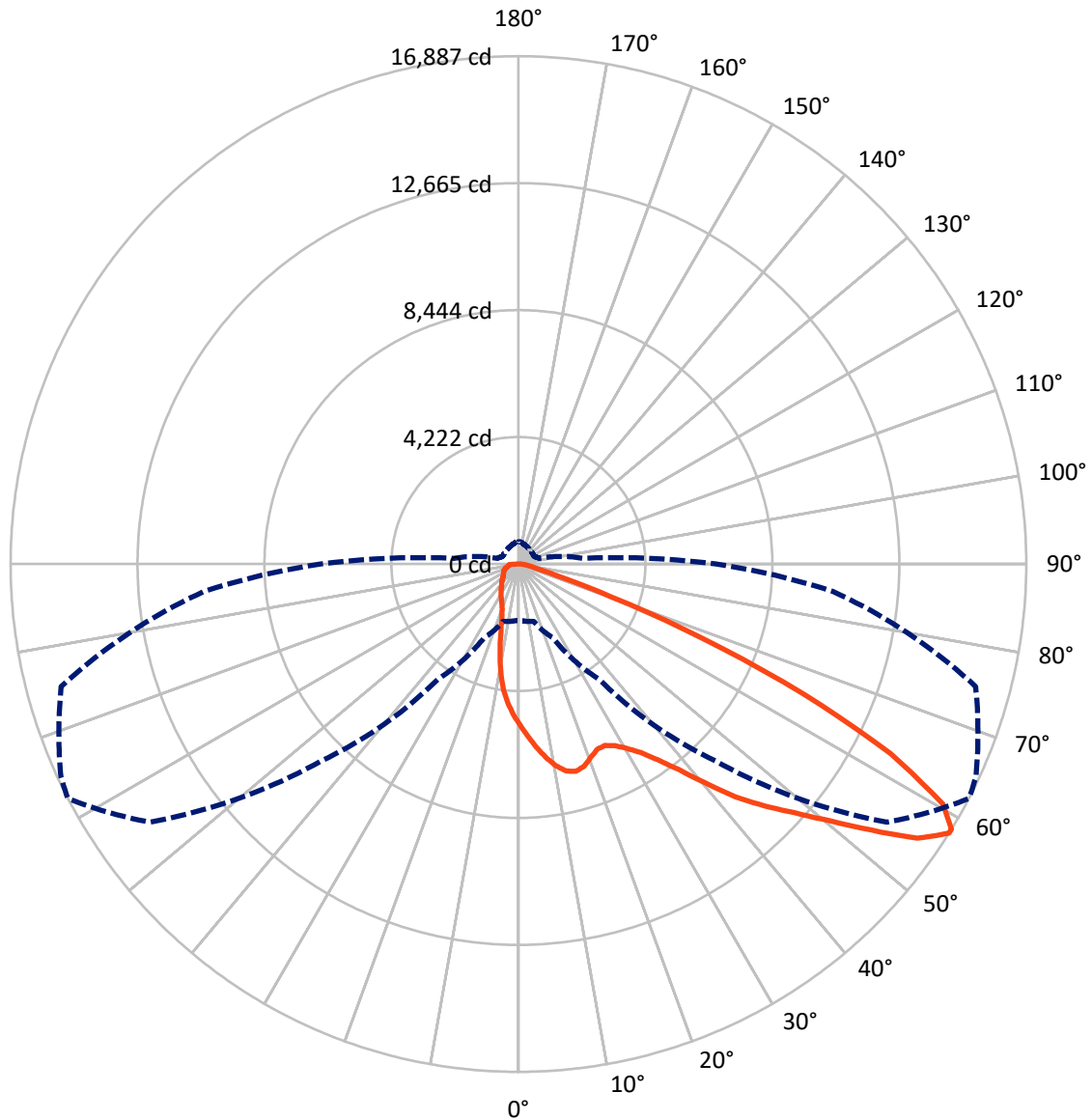
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	3065.5	0.0	3065.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	17035.5	0.0	17035.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	20101.0	0.0	20101.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.5	2.4
10°-20°	1220.6	6.1
20°-30°	1973.2	9.8
30°-40°	3132.5	15.6
40°-50°	4583.5	22.8
50°-60°	4793.9	23.8
60°-70°	2832.2	14.1
70°-80°	797.9	4.0
80°-90°	289.7	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°	20101.0	100.0
0°-180°	20101.0	100.0



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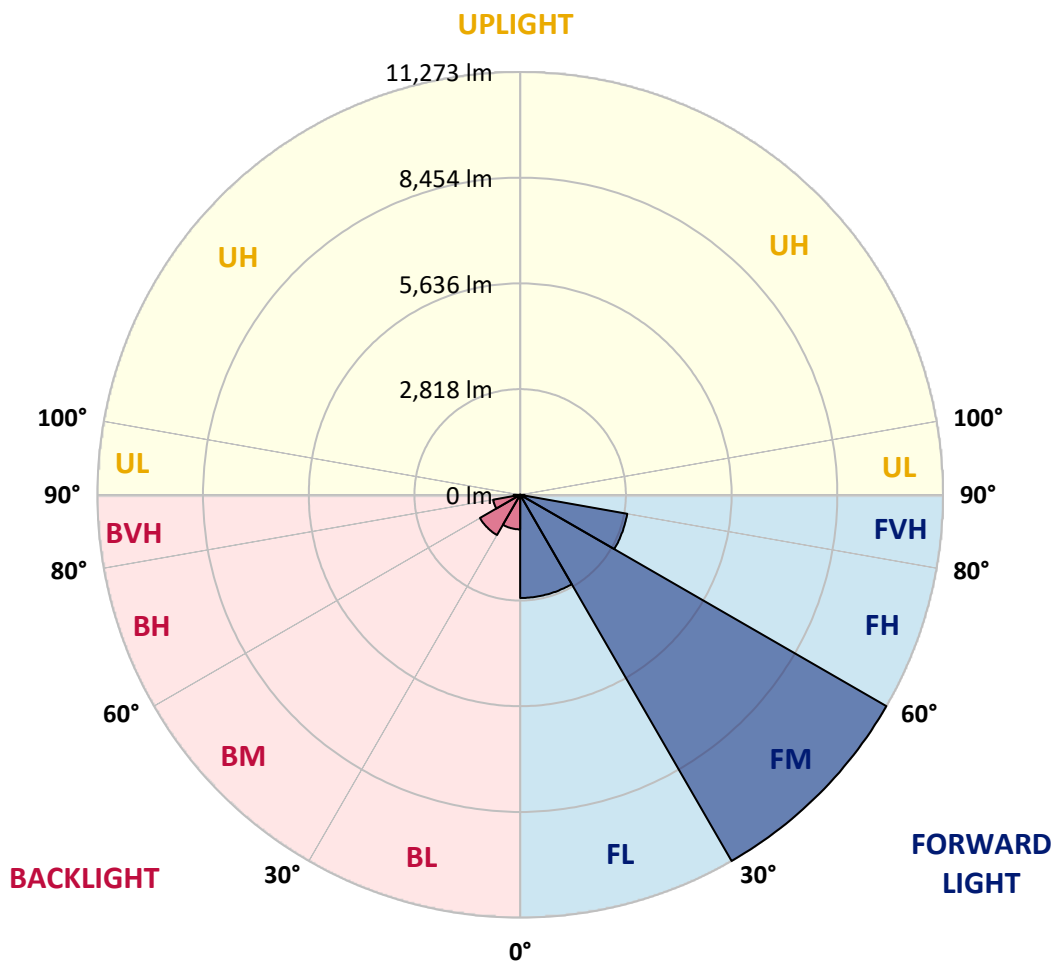
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2750.1	13.7			
FM	(30°-60°)	11272.5	56.1			
FH	(60°-80°)	2898.6	14.4			G2/5000
FVH	(80°-90°)	114.3	0.6			G2/225
BL	(0°-30°)	921.3	4.6	B2/1000		
BM	(30°-60°)	1237.3	6.2	B2/2500		
BH	(60°-80°)	731.4	3.6	B2/1000		G2/1000
BVH	(80°-90°)	175.4	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°	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4
2.5°	6101.4	6052.2	6020.9	5993.5	5957.5	5880.8	5777.7	5712.4	5679.2	5566.6	5433.1
5°	6699.6	6656.1	6623.9	6587.0	6522.6	6402.4	6235.8	6103.3	6038.0	5812.7	5545.8
7.5°	6559.5	6577.5	6633.3	6730.8	6814.1	6798.0	6649.4	6480.9	6394.8	6081.5	5676.4
10°	5715.2	5746.4	5843.0	6071.1	6440.2	6818.9	6934.3	6817.9	6730.8	6347.5	5810.8
12.5°	5545.8	5544.8	5552.4	5613.0	5832.6	6365.5	6943.8	7061.2	7009.1	6601.2	5948.0
15°	5614.9	5616.8	5611.1	5636.6	5704.8	5915.9	6654.2	7154.9	7191.8	6856.7	6090.0
17.5°	5796.6	5791.9	5770.1	5770.1	5794.7	5877.1	6313.4	7067.8	7238.2	7082.9	6215.0
20°	6101.4	6079.6	6021.9	5968.9	5942.4	5986.9	6173.3	6867.1	7157.7	7280.8	6318.1
22.5°	6470.5	6453.5	6359.8	6246.2	6154.4	6153.4	6245.3	6692.0	7018.6	7467.2	6405.2
25°	6947.6	6920.1	6781.0	6599.3	6438.4	6376.8	6402.4	6683.5	6942.9	7669.8	6482.8
27.5°	7507.9	7457.8	7293.1	7030.9	6794.3	6670.3	6633.3	6837.8	7012.0	7920.6	6590.7
30°	8187.6	8129.8	7918.7	7577.0	7242.9	7039.4	6960.8	7111.3	7241.0	8226.4	6764.0
32.5°	8960.9	8877.6	8633.4	8256.7	7817.5	7507.0	7379.2	7472.9	7576.1	8594.6	6980.7
35°	10029.5	9930.1	9577.1	9057.4	8561.4	8134.5	7930.1	7998.2	8098.6	9143.6	7294.0
37.5°	10758.4	10713.9	10479.1	9990.7	9451.2	8959.9	8643.8	8683.5	8740.3	9829.8	7695.4
40°	10751.7	10769.7	10774.4	10779.2	10411.9	9941.5	9601.7	9560.0	9548.7	10583.2	8151.6
42.5°	10213.1	10287.0	10525.5	11009.2	11232.6	11016.8	10705.3	10585.1	10525.5	11471.1	8635.3
45°	9388.7	9428.5	9875.2	10819.9	11652.8	12081.6	11845.9	11467.3	11359.4	12287.0	9036.6
47.5°	8963.7	9007.3	9288.4	10318.2	11648.1	12942.0	13078.3	12357.1	12164.0	12996.9	9383.0
50°	7951.9	8042.7	8396.7	9445.5	11223.1	13337.7	14366.6	13417.2	13017.7	13687.9	9730.4
52.5°	6093.8	6233.9	6630.5	8010.6	10145.0	13141.7	15397.3	14702.6	14138.4	14403.5	10028.6
55°	3843.9	3948.0	4281.2	5657.5	8115.6	12122.3	15788.3	16093.0	15591.4	15081.2	10287.0
57.5°	2090.0	2136.3	2261.3	3123.6	5278.8	9868.6	15218.4	16884.3	16676.1	15656.7	10482.0
58°	1870.4	1901.6	1979.2	2707.1	4681.6	9252.4	14965.7	16887.2	16783.1	15740.9	10497.1
60°	1387.6	1371.5	1302.4	1544.8	2605.8	6392.0	13438.0	16211.4	16517.1	15844.1	10423.3
62.5°	1219.1	1180.3	1039.3	1023.2	1267.4	2944.7	10282.2	13886.7	14608.9	15255.4	9974.6
65°	1145.3	1103.7	921.9	863.2	914.4	1245.6	6056.9	10414.8	11320.6	13470.2	8827.4
67.5°	1090.4	1036.5	847.2	766.7	770.5	823.5	2427.9	6559.5	7578.9	10227.3	6866.2
70°	1037.4	978.7	783.7	691.0	669.2	651.2	965.5	3283.5	4208.3	6460.1	4377.7
72.5°	980.6	922.9	727.9	631.3	588.7	529.1	630.4	1343.1	1876.0	3056.4	1985.8
75°	898.3	846.2	672.0	578.3	517.8	438.2	476.1	701.4	841.5	1217.2	956.9
77.5°	797.0	754.4	609.6	534.8	459.1	355.9	366.3	486.5	539.5	696.7	568.9
80°	572.7	587.8	542.4	480.8	408.9	288.7	281.1	355.0	383.3	447.7	370.1
82.5°	402.3	410.8	448.7	392.8	337.9	227.2	207.3	249.9	266.9	294.4	199.7
85°	277.3	267.9	307.6	273.5	244.2	151.4	142.0	169.4	179.8	182.7	103.2
87.5°	166.6	166.6	177.9	146.7	131.6	78.6	76.7	96.5	103.2	98.4	56.8
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°	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4
2.5°	5353.6	5286.4	5143.5	5029.0	4884.1	4733.6	4649.4	4559.5	4497.9	4453.5	4524.5
5°	5394.3	5257.1	4961.8	4681.6	4372.1	4050.2	3806.0	3578.9	3420.8	3322.3	3415.1
7.5°	5458.7	5247.6	4777.2	4298.2	3742.6	3206.9	2727.9	2427.9	2252.8	2166.6	2220.6
10°	5532.5	5232.5	4560.4	3778.6	2983.5	2308.6	1950.8	1829.7	1789.9	1773.8	1781.4
12.5°	5594.0	5200.3	4294.4	3150.1	2240.5	1823.0	1719.9	1717.0	1725.5	1727.4	1730.3
15°	5637.6	5153.0	3899.7	2495.1	1791.8	1661.2	1655.5	1672.5	1688.6	1695.2	1699.0
17.5°	5666.9	5055.5	3453.9	1972.6	1605.3	1582.6	1595.9	1617.6	1634.7	1639.4	1643.2
20°	5664.1	4912.5	2922.9	1645.1	1504.0	1504.0	1526.8	1543.8	1544.8	1539.1	1541.9
22.5°	5634.7	4716.6	2408.0	1470.9	1414.1	1430.2	1452.9	1436.8	1370.6	1327.0	1329.9
25°	5585.5	4482.8	1966.9	1360.2	1330.8	1359.2	1352.6	1231.4	1136.8	1094.2	1094.2
27.5°	5542.0	4206.4	1628.0	1263.6	1247.5	1282.6	1165.2	1055.4	1015.6	995.8	989.1
30°	5510.7	3908.3	1401.8	1170.9	1169.0	1143.4	1010.9	980.6	974.0	957.9	952.2
32.5°	5518.3	3606.3	1257.0	1089.5	1096.1	978.7	937.1	943.7	938.0	921.0	913.4
35°	5580.8	3319.5	1162.3	1015.6	995.8	884.1	893.5	905.8	903.9	880.3	872.7
37.5°	5692.5	3047.9	1099.9	954.1	868.9	836.7	851.9	870.8	866.1	850.0	844.3
40°	5809.9	2792.3	1048.8	905.8	794.1	804.6	817.8	828.2	833.0	837.7	833.9
42.5°	5924.4	2525.4	986.3	856.6	762.9	774.3	779.9	790.4	815.9	833.9	833.0
45°	5992.5	2274.5	921.9	786.6	738.3	744.9	741.1	762.0	793.2	822.5	823.5
47.5°	6068.3	2079.5	870.8	722.2	714.6	719.4	708.0	728.8	757.2	793.2	797.0
50°	6160.1	1963.1	830.1	671.1	682.5	682.5	679.6	698.5	738.3	779.9	787.5
52.5°	6264.2	1940.4	796.0	634.2	650.3	649.3	652.2	680.6	724.1	764.8	771.4
55°	6391.0	2001.9	759.1	606.7	619.0	622.8	632.3	664.5	701.4	747.8	750.6
57.5°	6538.7	2126.9	729.8	585.0	590.6	602.9	618.1	647.4	687.2	738.3	741.1
58°	6563.3	2153.4	725.0	583.1	585.0	599.2	616.2	644.6	684.3	740.2	743.0
60°	6564.2	2241.4	714.6	574.5	563.2	586.9	605.8	634.2	679.6	746.8	753.4
62.5°	6331.4	2240.5	707.1	562.2	540.5	569.8	591.6	624.7	674.9	762.9	776.2
65°	5575.1	2036.0	671.1	543.3	522.5	554.7	579.3	618.1	688.1	833.0	841.5
67.5°	4360.7	1668.7	603.9	516.8	498.8	539.5	571.7	617.1	702.3	849.0	854.7
70°	2883.2	1248.5	530.1	486.5	474.2	521.5	575.5	649.3	686.2	815.0	799.8
72.5°	1496.5	876.5	470.4	448.7	445.8	505.5	630.4	645.5	670.1	766.7	747.8
75°	785.6	608.6	418.4	407.0	411.7	501.7	744.0	628.5	649.3	733.6	769.5
77.5°	480.8	491.3	373.9	369.1	378.6	490.3	743.0	606.7	619.0	674.9	714.6
80°	321.8	398.5	339.8	340.8	347.4	448.7	667.3	572.7	582.1	638.0	678.7
82.5°	203.5	235.7	308.6	324.7	316.1	370.1	567.0	521.5	534.8	729.8	771.4
85°	103.2	147.7	267.9	312.4	284.9	259.4	460.0	457.2	463.8	526.3	549.9
87.5°	47.3	81.4	209.2	272.6	214.9	161.9	334.1	338.9	365.4	373.9	373.9
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)