

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: P193522

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193522  
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-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22051 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 258  
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

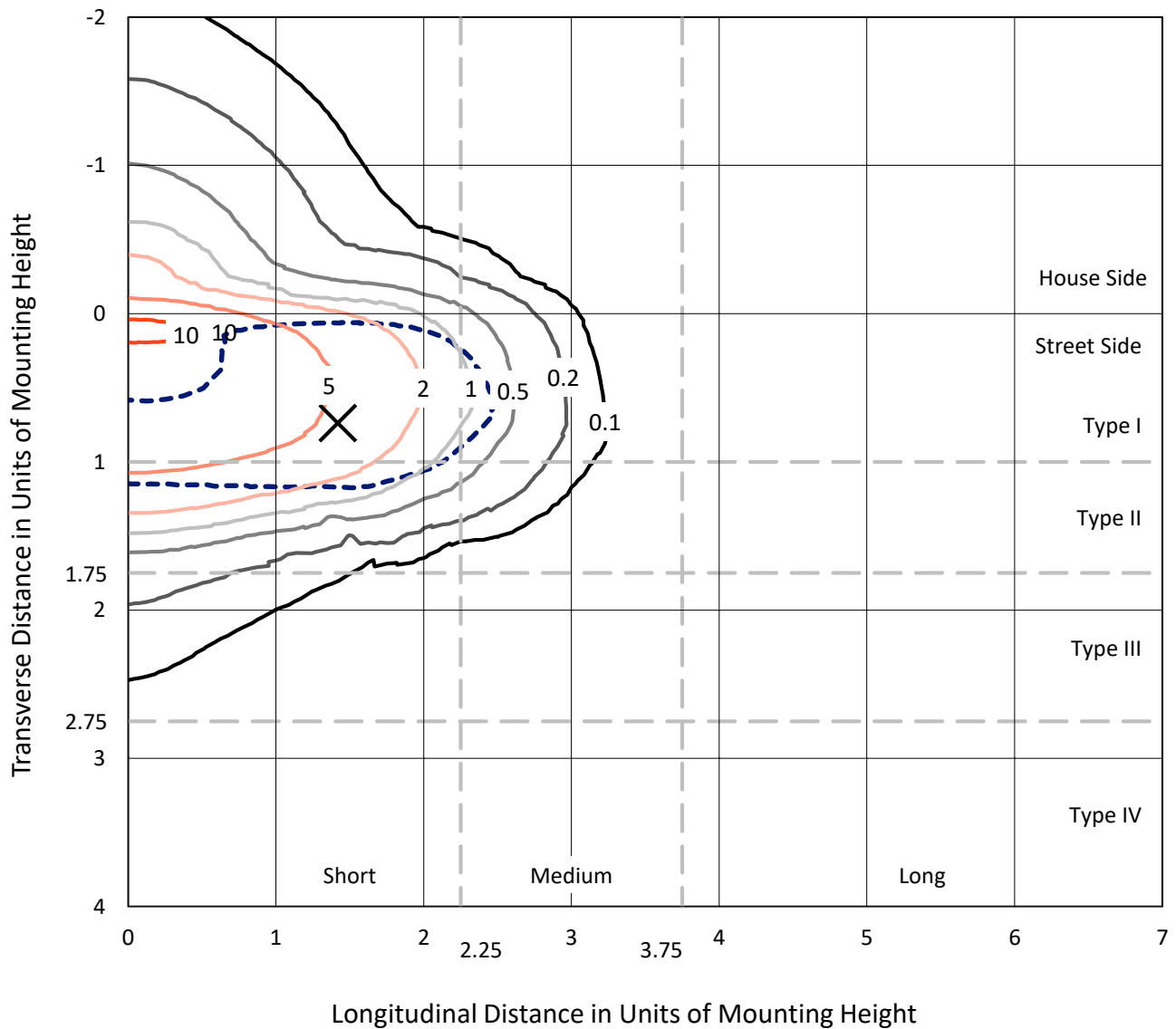


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

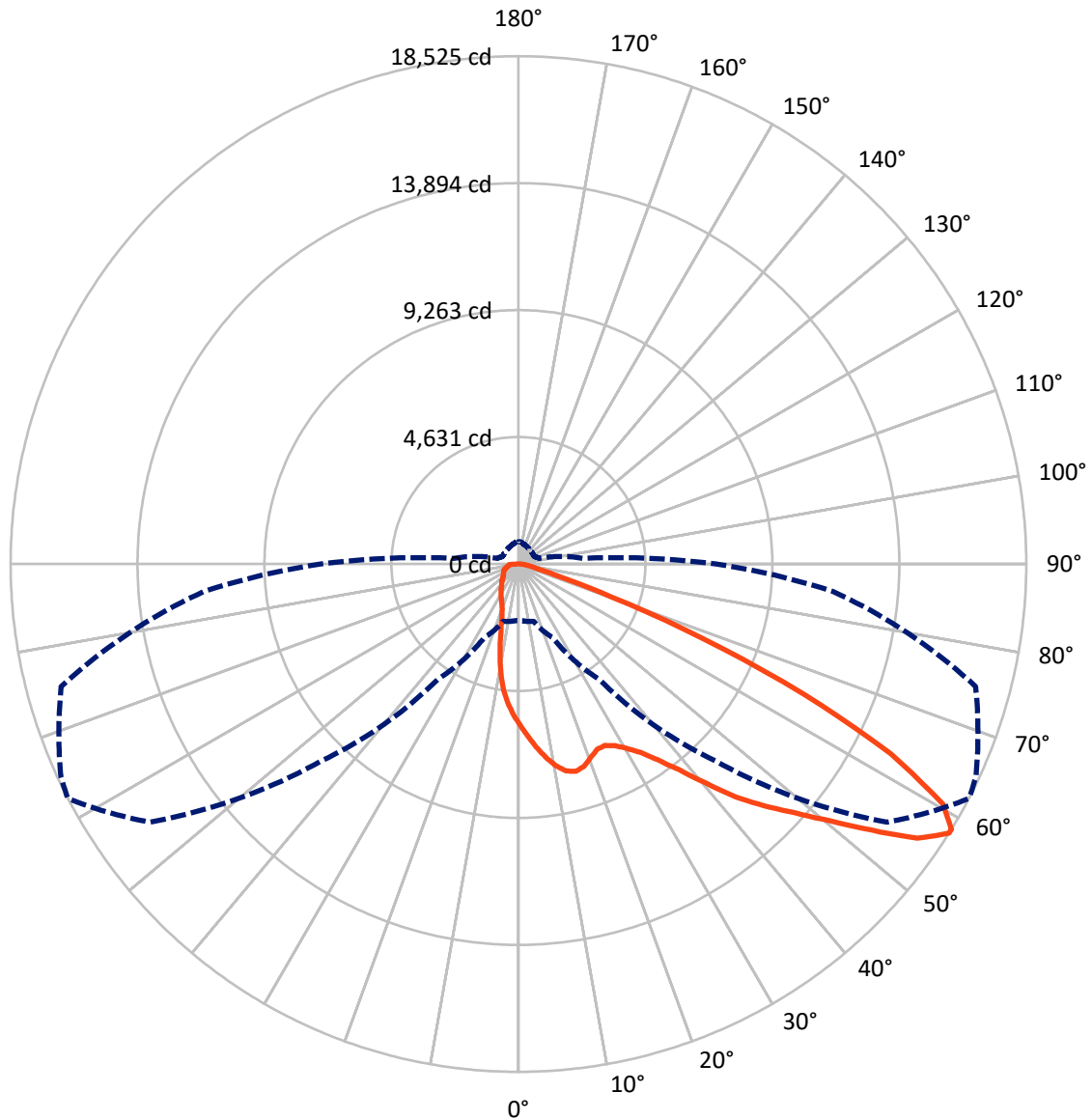


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - Full Cutoff

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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	3362.9	0.0	3362.9
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	18688.1	0.0	18688.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	22051.0	0.0	22051.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.9	2.4
10°-20°	1339.1	6.1
20°-30°	2164.6	9.8
30°-40°	3436.3	15.6
40°-50°	5028.1	22.8
50°-60°	5259.0	23.8
60°-70°	3107.0	14.1
70°-80°	875.3	4.0
80°-90°	317.8	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°	22051.0	100.0
0°-180°	22051.0	100.0



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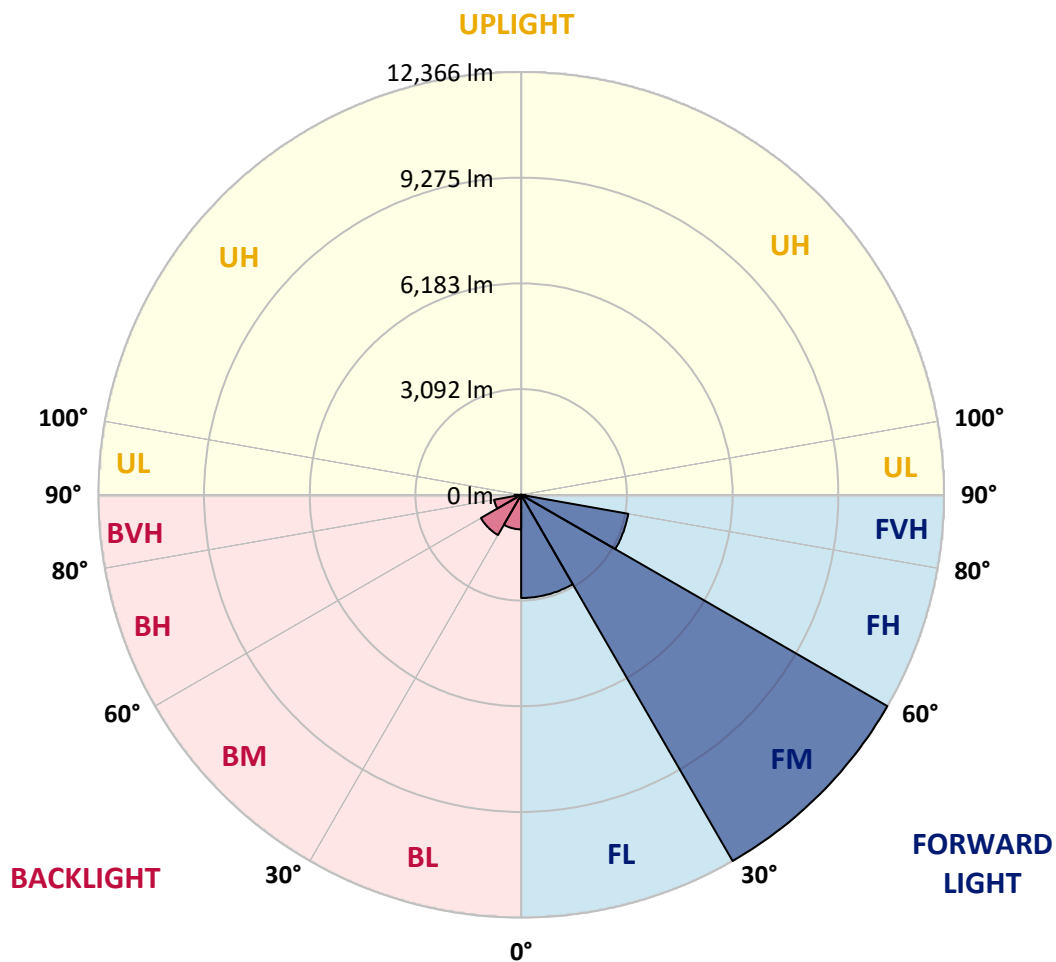
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3016.9	13.7			
FM	(30°-60°)	12366.1	56.1			
FH	(60°-80°)	3179.8	14.4			G2/5000
FVH	(80°-90°)	125.4	0.6			G2/225
BL	(0°-30°)	1010.7	4.6	B3/2500		
BM	(30°-60°)	1357.3	6.2	B2/2500		
BH	(60°-80°)	802.4	3.6	B2/1000		G2/1000
BVH	(80°-90°)	192.4	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-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°	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4
2.5°	6693.3	6639.3	6605.0	6574.9	6535.4	6451.3	6338.2	6266.5	6230.2	6106.6	5960.2
5°	7349.5	7301.8	7266.5	7226.0	7155.4	7023.5	6840.7	6695.4	6623.7	6376.6	6083.8
7.5°	7195.8	7215.6	7276.8	7383.8	7475.2	7457.5	7294.5	7109.7	7015.2	6671.5	6227.1
10°	6269.6	6303.9	6409.8	6660.1	7065.0	7480.4	7607.0	7479.3	7383.8	6963.3	6374.5
12.5°	6083.8	6082.7	6091.0	6157.5	6398.4	6983.0	7617.4	7746.2	7689.1	7241.5	6525.1
15°	6159.6	6161.6	6155.4	6183.4	6258.2	6489.8	7299.7	7849.0	7889.5	7521.9	6680.8
17.5°	6358.9	6353.7	6329.9	6329.9	6356.9	6447.2	6925.9	7753.4	7940.4	7770.1	6817.9
20°	6693.3	6669.4	6606.1	6547.9	6518.8	6567.6	6772.2	7533.3	7852.1	7987.1	6931.1
22.5°	7098.2	7079.6	6976.8	6852.1	6751.4	6750.4	6851.1	7341.2	7699.5	8191.6	7026.6
25°	7621.6	7591.5	7438.8	7239.5	7062.9	6995.4	7023.5	7331.9	7616.4	8413.8	7111.7
27.5°	8236.3	8181.3	8000.6	7713.0	7453.4	7317.3	7276.8	7501.1	7692.2	8689.0	7230.1
30°	8981.8	8918.5	8686.9	8312.1	7945.5	7722.3	7636.1	7801.2	7943.5	9024.4	7420.1
32.5°	9830.2	9738.8	9470.9	9057.6	8575.8	8235.2	8095.1	8197.9	8311.0	9428.3	7657.9
35°	11002.5	10893.5	10506.1	9936.1	9392.0	8923.7	8699.4	8774.2	8884.2	10030.6	8001.6
37.5°	11802.0	11753.2	11495.7	10959.9	10368.0	9829.1	9482.3	9525.9	9588.2	10783.4	8441.9
40°	11794.8	11814.5	11819.7	11824.9	11422.0	10905.9	10533.1	10487.5	10475.0	11609.9	8942.4
42.5°	11203.9	11284.9	11546.6	12077.2	12322.2	12085.5	11743.9	11612.0	11546.6	12583.9	9473.0
45°	10299.5	10343.1	10833.2	11869.5	12783.3	13253.7	12995.1	12579.8	12461.4	13479.0	9913.2
47.5°	9833.3	9881.1	10189.4	11319.2	12778.1	14197.5	14347.0	13555.8	13344.0	14257.7	10293.3
50°	8723.3	8823.0	9211.3	10361.8	12311.9	14631.6	15760.3	14718.8	14280.6	15015.8	10674.4
52.5°	6685.0	6838.7	7273.7	8787.7	11129.2	14416.6	16891.0	16128.9	15510.0	15800.8	11001.4
55°	4216.8	4331.0	4696.5	6206.3	8902.9	13298.3	17319.9	17654.2	17103.9	16544.2	11284.9
57.5°	2292.7	2343.6	2480.6	3426.6	5790.9	10826.0	16694.8	18522.3	18293.9	17175.5	11498.8
58°	2051.8	2086.1	2171.2	2969.7	5135.7	10150.0	16417.5	18525.4	18411.2	17268.0	11515.4
60°	1522.2	1504.6	1428.8	1694.6	2858.6	7012.1	14741.6	17784.0	18119.4	17381.1	11434.4
62.5°	1337.4	1294.8	1140.1	1122.5	1390.4	3230.3	11279.7	15233.8	16026.1	16735.3	10942.3
65°	1256.4	1210.7	1011.4	947.0	1003.1	1366.5	6644.5	11425.1	12418.8	14776.9	9683.8
67.5°	1196.2	1137.0	929.3	841.1	845.2	903.4	2663.4	7195.8	8314.2	11219.5	7532.3
70°	1138.0	1073.7	859.8	758.0	734.1	714.4	1059.1	3602.1	4616.6	7086.8	4802.4
72.5°	1075.7	1012.4	798.5	692.6	645.9	580.4	691.5	1473.4	2058.0	3352.9	2178.5
75°	985.4	928.3	737.2	634.4	568.0	480.8	522.3	769.4	923.1	1335.3	1049.8
77.5°	874.3	827.6	668.7	586.7	503.6	390.4	401.8	533.7	591.9	764.2	624.1
80°	628.2	644.8	595.0	527.5	448.6	316.7	308.4	389.4	420.5	491.1	406.0
82.5°	441.3	450.6	492.2	430.9	370.7	249.2	227.4	274.1	292.8	322.9	219.1
85°	304.2	293.9	337.5	300.1	267.9	166.1	155.8	185.9	197.3	200.4	113.2
87.5°	182.8	182.8	195.2	160.9	144.3	86.2	84.1	105.9	113.2	108.0	62.3
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°	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4
2.5°	5873.0	5799.3	5642.5	5516.8	5357.9	5192.8	5100.4	5001.8	4934.3	4885.5	4963.4
5°	5917.6	5767.1	5443.1	5135.7	4796.2	4443.2	4175.3	3926.0	3752.6	3644.7	3746.4
7.5°	5988.2	5756.7	5240.6	4715.2	4105.7	3518.0	2992.6	2663.4	2471.3	2376.8	2436.0
10°	6069.2	5740.1	5002.8	4145.1	3272.9	2532.6	2140.1	2007.2	1963.5	1945.9	1954.2
12.5°	6136.7	5704.8	4711.0	3455.7	2457.8	1999.9	1886.7	1883.6	1892.9	1895.0	1898.1
15°	6184.5	5652.8	4278.1	2737.1	1965.6	1822.3	1816.1	1834.8	1852.4	1859.7	1863.9
17.5°	6216.7	5545.9	3789.0	2163.9	1761.1	1736.1	1750.7	1774.6	1793.3	1798.4	1802.6
20°	6213.6	5389.1	3206.5	1804.7	1650.0	1650.0	1674.9	1693.6	1694.6	1688.4	1691.5
22.5°	6181.4	5174.2	2641.6	1613.6	1551.3	1569.0	1593.9	1576.2	1503.5	1455.8	1458.9
25°	6127.4	4917.7	2157.7	1492.1	1459.9	1491.1	1483.8	1350.9	1247.1	1200.3	1200.3
27.5°	6079.6	4614.5	1786.0	1386.2	1368.6	1407.0	1278.2	1157.8	1114.2	1092.4	1085.1
30°	6045.3	4287.4	1537.8	1284.5	1282.4	1254.3	1109.0	1075.7	1068.5	1050.8	1044.6
32.5°	6053.6	3956.2	1378.9	1195.2	1202.4	1073.7	1028.0	1035.2	1029.0	1010.3	1002.0
35°	6122.2	3641.5	1275.1	1114.2	1092.4	969.8	980.2	993.7	991.6	965.7	957.4
37.5°	6244.7	3343.5	1206.6	1046.7	953.2	917.9	934.5	955.3	950.1	932.4	926.2
40°	6373.5	3063.2	1150.5	993.7	871.2	882.6	897.1	908.6	913.8	919.0	914.8
42.5°	6499.1	2770.3	1082.0	939.7	836.9	849.4	855.6	867.0	895.1	914.8	913.8
45°	6573.9	2495.2	1011.4	862.9	809.9	817.2	813.0	835.9	870.1	902.3	903.4
47.5°	6656.9	2281.3	955.3	792.3	784.0	789.2	776.7	799.5	830.7	870.1	874.3
50°	6757.7	2153.6	910.6	736.2	748.7	748.7	745.5	766.3	809.9	855.6	863.9
52.5°	6871.9	2128.6	873.3	695.7	713.4	712.3	715.4	746.6	794.3	839.0	846.3
55°	7011.0	2196.1	832.8	665.6	679.1	683.2	693.6	728.9	769.4	820.3	823.4
57.5°	7173.0	2333.2	800.6	641.7	647.9	661.4	678.1	710.2	753.9	809.9	813.0
58°	7200.0	2362.3	795.4	639.6	641.7	657.3	676.0	707.1	750.7	812.0	815.1
60°	7201.0	2458.8	784.0	630.3	617.8	643.8	664.6	695.7	745.5	819.3	826.5
62.5°	6945.6	2457.8	775.7	616.8	592.9	625.1	649.0	685.3	740.4	836.9	851.5
65°	6116.0	2233.5	736.2	596.0	573.2	608.5	635.5	678.1	754.9	913.8	923.1
67.5°	4783.7	1830.6	662.5	566.9	547.2	591.9	627.2	677.0	770.5	931.4	937.6
70°	3162.9	1369.6	581.5	533.7	520.2	572.1	631.3	712.3	752.8	894.0	877.4
72.5°	1641.7	961.5	516.1	492.2	489.1	554.5	691.5	708.2	735.2	841.1	820.3
75°	861.8	667.7	459.0	446.5	451.7	550.3	816.2	689.5	712.3	804.7	844.2
77.5°	527.5	538.9	410.2	405.0	415.3	537.9	815.1	665.6	679.1	740.4	784.0
80°	353.0	437.2	372.8	373.8	381.1	492.2	732.0	628.2	638.6	699.9	744.5
82.5°	223.2	258.6	338.5	356.2	346.8	406.0	622.0	572.1	586.7	800.6	846.3
85°	113.2	162.0	293.9	342.7	312.5	284.5	504.6	501.5	508.8	577.3	603.3
87.5°	51.9	89.3	229.5	299.0	235.7	177.6	366.5	371.7	400.8	410.2	410.2
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)