

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: P191753

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191753  
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-05-LED-E1-AFL-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20109 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 162  
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

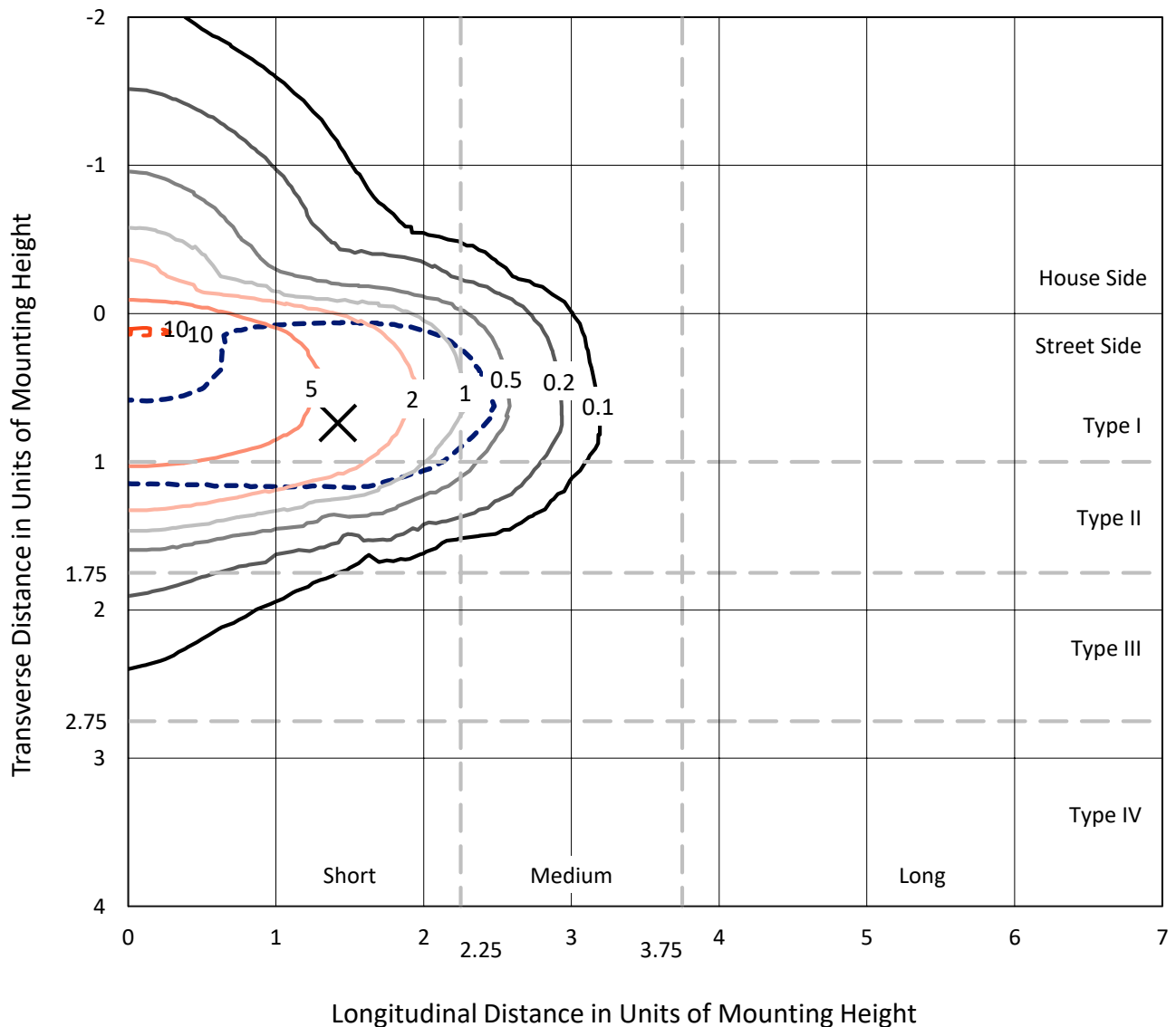


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### Iso-Footcandle Lines of Horizontal Illumination

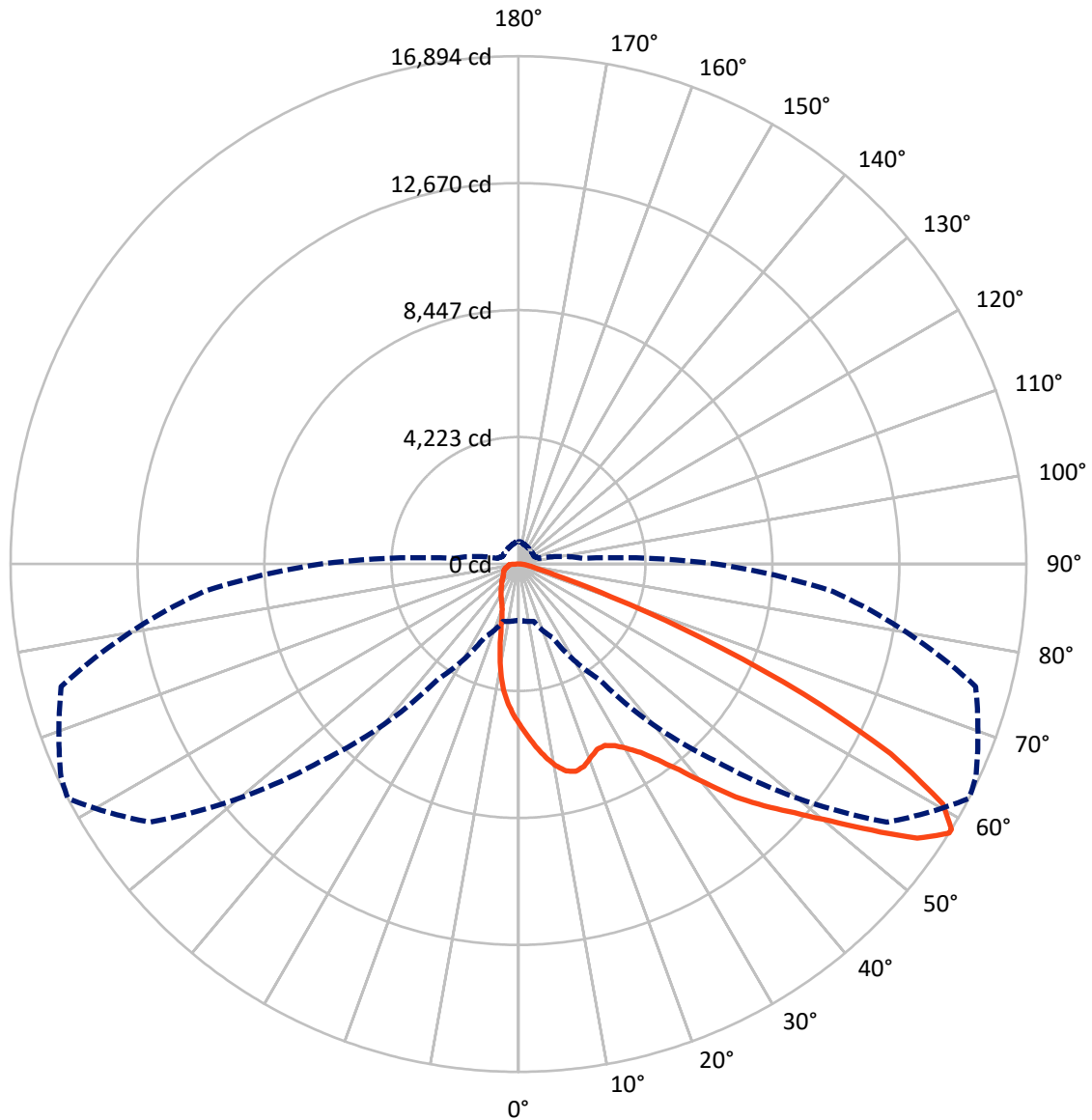
× Max cd  
 - - - 1/2 Max cd



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	3066.7	0.0	3066.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	17042.3	0.0	17042.3
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	20109.0	0.0	20109.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.7	2.4
10°-20°	1221.1	6.1
20°-30°	1974.0	9.8
30°-40°	3133.7	15.6
40°-50°	4585.3	22.8
50°-60°	4795.8	23.8
60°-70°	2833.4	14.1
70°-80°	798.2	4.0
80°-90°	289.8	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°	20109.0	100.0
0°-180°	20109.0	100.0



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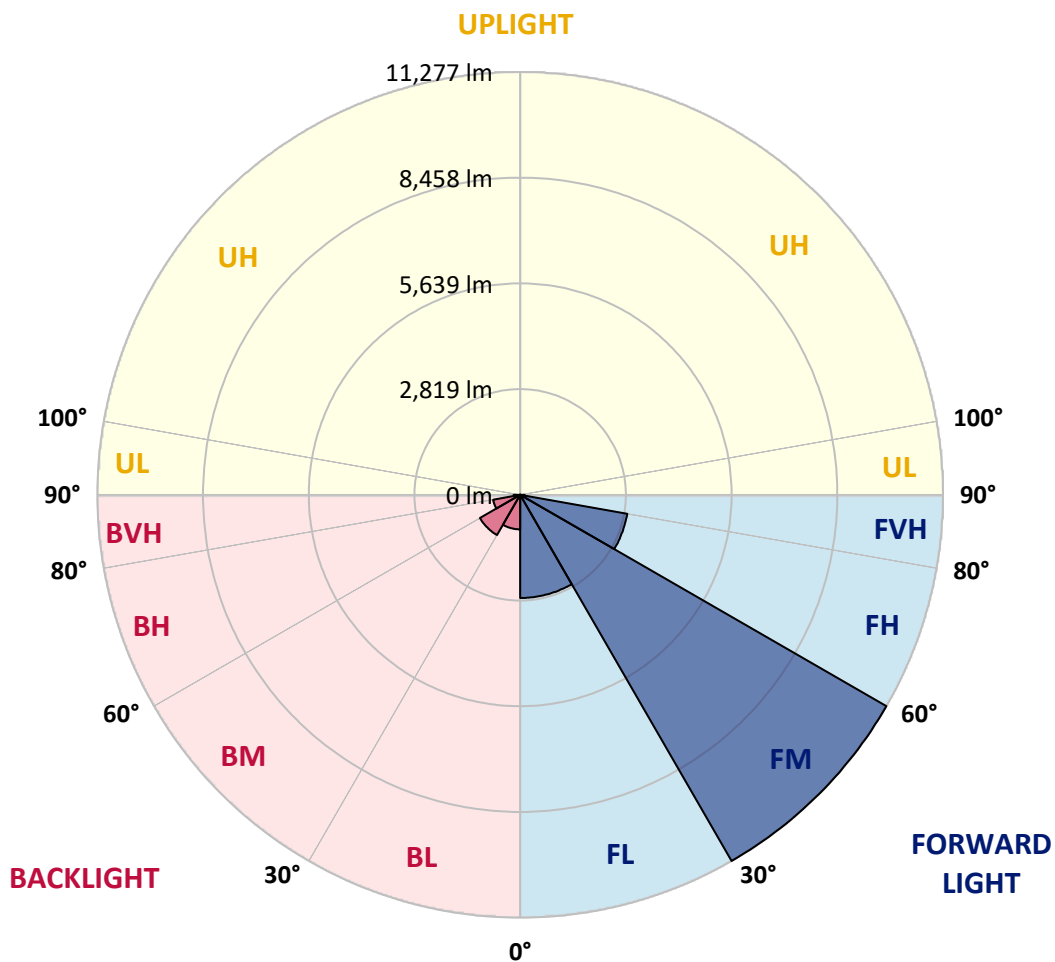
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2751.2	13.7			
FM (30°-60°)	11277.0	56.1			
FH (60°-80°)	2899.8	14.4			G2/5000
FVH (80°-90°)	114.3	0.6			G2/225
BL (0°-30°)	921.7	4.6	B2/1000		
BM (30°-60°)	1237.8	6.2	B2/2500		
BH (60°-80°)	731.7	3.6	B2/1000		G2/1000
BVH (80°-90°)	175.5	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°	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5
2.5°	6103.8	6054.6	6023.3	5995.9	5959.9	5883.2	5780.0	5714.6	5681.5	5568.8	5435.3
5°	6702.3	6658.7	6626.5	6589.6	6525.2	6404.9	6238.3	6105.7	6040.4	5815.0	5548.0
7.5°	6562.1	6580.1	6636.0	6733.5	6816.8	6800.7	6652.1	6483.5	6397.4	6083.9	5678.6
10°	5717.5	5748.7	5845.3	6073.5	6442.8	6821.6	6937.1	6820.6	6733.5	6350.0	5813.1
12.5°	5548.0	5547.0	5554.6	5615.2	5834.9	6368.0	6946.6	7064.0	7011.9	6603.8	5950.4
15°	5617.1	5619.0	5613.3	5638.9	5707.1	5918.2	6656.8	7157.7	7194.7	6859.5	6092.4
17.5°	5798.9	5794.2	5772.4	5772.4	5797.0	5879.4	6315.9	7070.6	7241.1	7085.8	6217.4
20°	6103.8	6082.0	6024.3	5971.2	5944.7	5989.2	6175.8	6869.9	7160.6	7283.7	6320.7
22.5°	6473.1	6456.1	6362.3	6248.7	6156.8	6155.9	6247.7	6694.7	7021.4	7470.2	6407.8
25°	6950.4	6922.9	6783.7	6601.9	6440.9	6379.4	6404.9	6686.2	6945.6	7672.9	6485.4
27.5°	7510.9	7460.7	7296.0	7033.7	6797.0	6672.9	6636.0	6840.5	7014.7	7923.8	6593.4
30°	8190.8	8133.1	7921.9	7580.1	7245.8	7042.2	6963.6	7114.2	7243.9	8229.6	6766.7
32.5°	8964.4	8881.1	8636.8	8259.9	7820.6	7510.0	7382.1	7475.9	7579.1	8598.0	6983.5
35°	10033.5	9934.1	9580.9	9061.0	8564.8	8137.8	7933.3	8001.4	8101.8	9147.2	7296.9
37.5°	10762.6	10718.1	10483.3	9994.7	9454.9	8963.5	8647.2	8687.0	8743.8	9833.7	7698.4
40°	10756.0	10774.0	10778.7	10783.5	10416.1	9945.4	9605.5	9563.8	9552.5	10587.5	8154.8
42.5°	10217.2	10291.1	10529.7	11013.6	11237.0	11021.1	10709.6	10589.3	10529.7	11475.7	8638.7
45°	9392.4	9432.2	9879.2	10824.2	11657.5	12086.4	11850.6	11471.9	11363.9	12291.9	9040.2
47.5°	8967.3	9010.8	9292.1	10322.3	11652.7	12947.2	13083.5	12362.0	12168.8	13002.1	9386.8
50°	7955.0	8045.9	8400.1	9449.3	11227.6	13343.0	14372.3	13422.5	13022.9	13693.3	9734.3
52.5°	6096.2	6236.4	6633.1	8013.7	10149.0	13147.0	15403.5	14708.4	14144.1	14409.2	10032.6
55°	3845.4	3949.6	4282.9	5659.7	8118.8	12127.1	15794.5	16099.4	15597.6	15087.2	10291.1
57.5°	2090.8	2137.2	2262.2	3124.8	5280.9	9872.5	15224.5	16891.1	16682.7	15662.9	10486.1
58°	1871.1	1902.4	1980.0	2708.2	4683.4	9256.1	14971.7	16893.9	16789.7	15747.2	10501.3
60°	1388.2	1372.1	1303.0	1545.4	2606.9	6394.5	13443.3	16217.8	16523.7	15850.4	10427.4
62.5°	1219.6	1180.8	1039.7	1023.6	1267.9	2945.9	10286.3	13892.2	14614.7	15261.4	9978.6
65°	1145.8	1104.1	922.3	863.6	914.7	1246.1	6059.3	10418.9	11325.1	13475.5	8830.9
67.5°	1090.8	1036.9	847.5	767.0	770.8	823.8	2428.8	6562.1	7581.9	10231.4	6868.9
70°	1037.8	979.1	784.0	691.2	669.5	651.5	965.9	3284.8	4210.0	6462.7	4379.5
72.5°	981.0	923.2	728.2	631.6	589.0	529.3	630.6	1343.7	1876.8	3057.6	1986.6
75°	898.6	846.5	672.3	578.6	518.0	438.4	476.3	701.7	841.8	1217.7	957.3
77.5°	797.3	754.7	609.8	535.0	459.3	356.0	366.5	486.7	539.7	696.9	569.1
80°	572.9	588.0	542.6	481.0	409.1	288.8	281.2	355.1	383.5	447.9	370.2
82.5°	402.4	411.0	448.8	393.0	338.0	227.3	207.4	250.0	267.0	294.5	199.8
85°	277.4	268.0	307.7	273.7	244.3	151.5	142.0	169.5	179.9	182.8	103.2
87.5°	166.7	166.7	178.0	146.8	131.6	78.6	76.7	96.6	103.2	98.5	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°	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5	5341.5
2.5°	5355.8	5288.5	5145.5	5031.0	4886.1	4735.5	4651.2	4561.3	4499.7	4455.2	4526.3
5°	5396.5	5259.2	4963.7	4683.4	4373.8	4051.8	3807.5	3580.3	3422.2	3323.7	3416.5
7.5°	5460.9	5249.7	4779.1	4299.9	3744.1	3208.1	2729.0	2428.8	2253.7	2167.5	2221.5
10°	5534.7	5234.5	4562.2	3780.1	2984.7	2309.5	1951.6	1830.4	1790.6	1774.5	1782.1
12.5°	5596.3	5202.3	4296.2	3151.3	2241.3	1823.8	1720.5	1717.7	1726.2	1728.1	1731.0
15°	5639.8	5155.0	3901.3	2496.1	1792.5	1661.8	1656.2	1673.2	1689.3	1695.9	1699.7
17.5°	5669.2	5057.5	3455.3	1973.4	1606.0	1583.2	1596.5	1618.3	1635.3	1640.1	1643.8
20°	5666.3	4914.5	2924.1	1645.7	1504.6	1504.6	1527.4	1544.4	1545.4	1539.7	1542.5
22.5°	5637.0	4718.5	2409.0	1471.5	1414.7	1430.8	1453.5	1437.4	1371.1	1327.6	1330.4
25°	5587.7	4484.6	1967.7	1360.7	1331.4	1359.8	1353.1	1231.9	1137.2	1094.6	1094.6
27.5°	5544.2	4208.1	1628.7	1264.1	1248.0	1283.1	1165.7	1055.8	1016.0	996.2	989.5
30°	5512.9	3909.8	1402.4	1171.3	1169.4	1143.9	1011.3	981.0	974.4	958.3	952.6
32.5°	5520.5	3607.7	1257.5	1089.9	1096.5	979.1	937.4	944.1	938.4	921.3	913.8
35°	5583.0	3320.8	1162.8	1016.0	996.2	884.4	893.9	906.2	904.3	880.6	873.1
37.5°	5694.7	3049.1	1100.3	954.5	869.3	837.1	852.2	871.2	866.4	850.3	844.6
40°	5812.2	2793.4	1049.2	906.2	794.5	804.9	818.1	828.6	833.3	838.0	834.2
42.5°	5926.7	2526.4	986.7	857.0	763.2	774.6	780.3	790.7	816.2	834.2	833.3
45°	5994.9	2275.4	922.3	786.9	738.6	745.2	741.4	762.3	793.5	822.9	823.8
47.5°	6070.7	2080.4	871.2	722.5	714.9	719.7	708.3	729.1	757.5	793.5	797.3
50°	6162.5	1963.9	830.4	671.4	682.7	682.7	679.9	698.8	738.6	780.3	787.8
52.5°	6266.7	1941.2	796.4	634.4	650.5	649.6	652.4	680.8	724.4	765.1	771.7
55°	6393.6	2002.7	759.4	607.0	619.3	623.1	632.5	664.7	701.7	748.1	750.9
57.5°	6541.3	2127.7	730.1	585.2	590.9	603.2	618.3	647.7	687.5	738.6	741.4
58°	6565.9	2154.2	725.3	583.3	585.2	599.4	616.4	644.8	684.6	740.5	743.3
60°	6566.9	2242.3	714.9	574.8	563.4	587.1	606.0	634.4	679.9	747.1	753.7
62.5°	6333.9	2241.3	707.3	562.5	540.7	570.0	591.8	625.0	675.2	763.2	776.5
65°	5577.3	2036.8	671.4	543.5	522.7	554.9	579.5	618.3	688.4	833.3	841.8
67.5°	4362.4	1669.4	604.1	517.0	499.0	539.7	571.9	617.4	702.6	849.4	855.1
70°	2884.3	1249.0	530.3	486.7	474.4	521.8	575.7	649.6	686.5	815.3	800.1
72.5°	1497.1	876.8	470.6	448.8	446.0	505.7	630.6	645.8	670.4	767.0	748.1
75°	785.9	608.9	418.5	407.2	411.9	501.9	744.3	628.8	649.6	733.9	769.8
77.5°	481.0	491.4	374.0	369.3	378.8	490.5	743.3	607.0	619.3	675.2	714.9
80°	322.0	398.7	339.9	340.9	347.5	448.8	667.6	572.9	582.4	638.2	678.9
82.5°	203.6	235.8	308.7	324.8	316.3	370.2	567.2	521.8	535.0	730.1	771.7
85°	103.2	147.7	268.0	312.5	285.0	259.5	460.2	457.4	464.0	526.5	550.2
87.5°	47.3	81.4	209.3	272.7	214.9	161.9	334.3	339.0	365.5	374.0	374.0
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)