

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: P193495

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193495  
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-07-LED-E1-AFL-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23223 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 226  
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

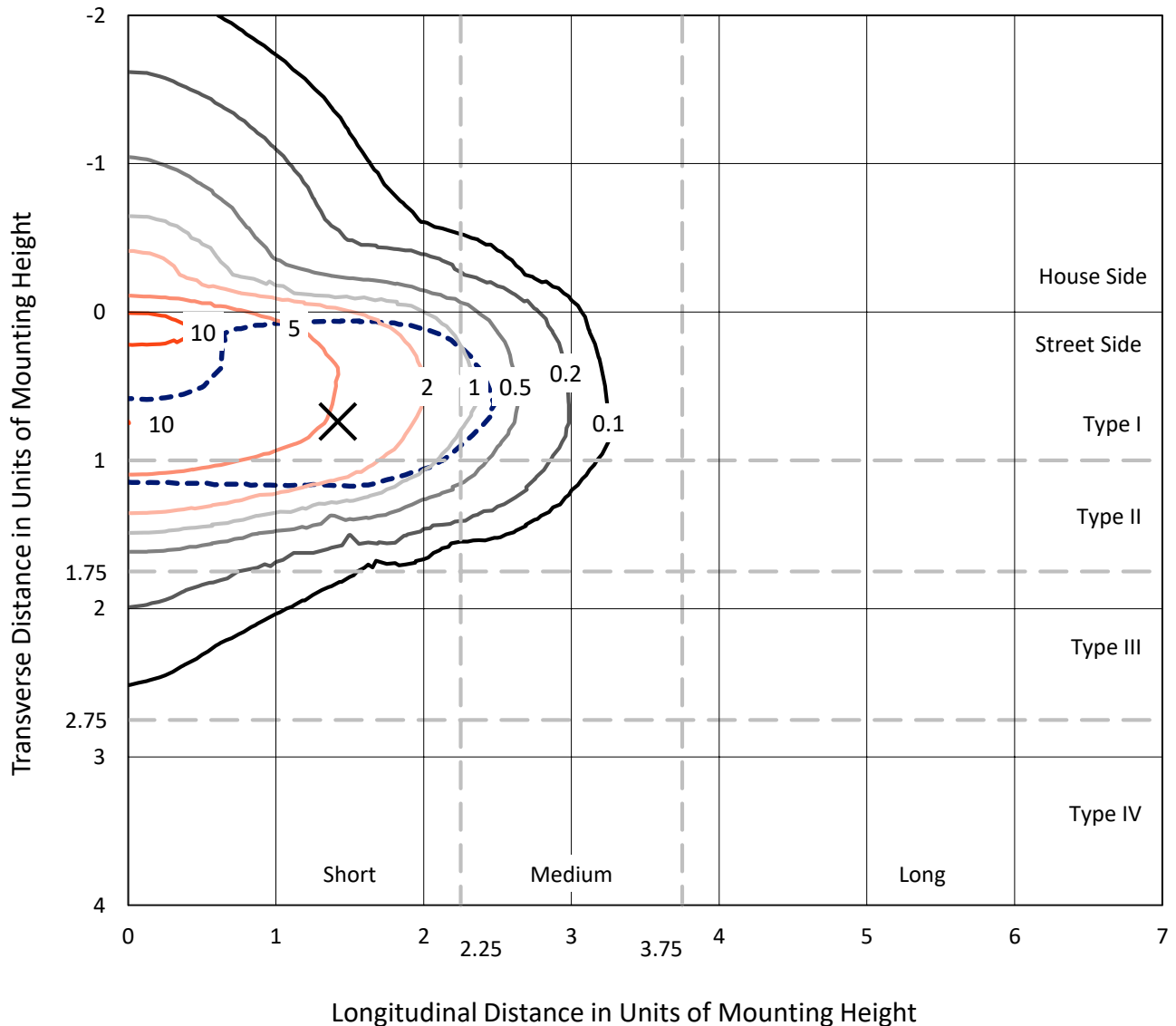


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### Iso-Footcandle Lines of Horizontal Illumination

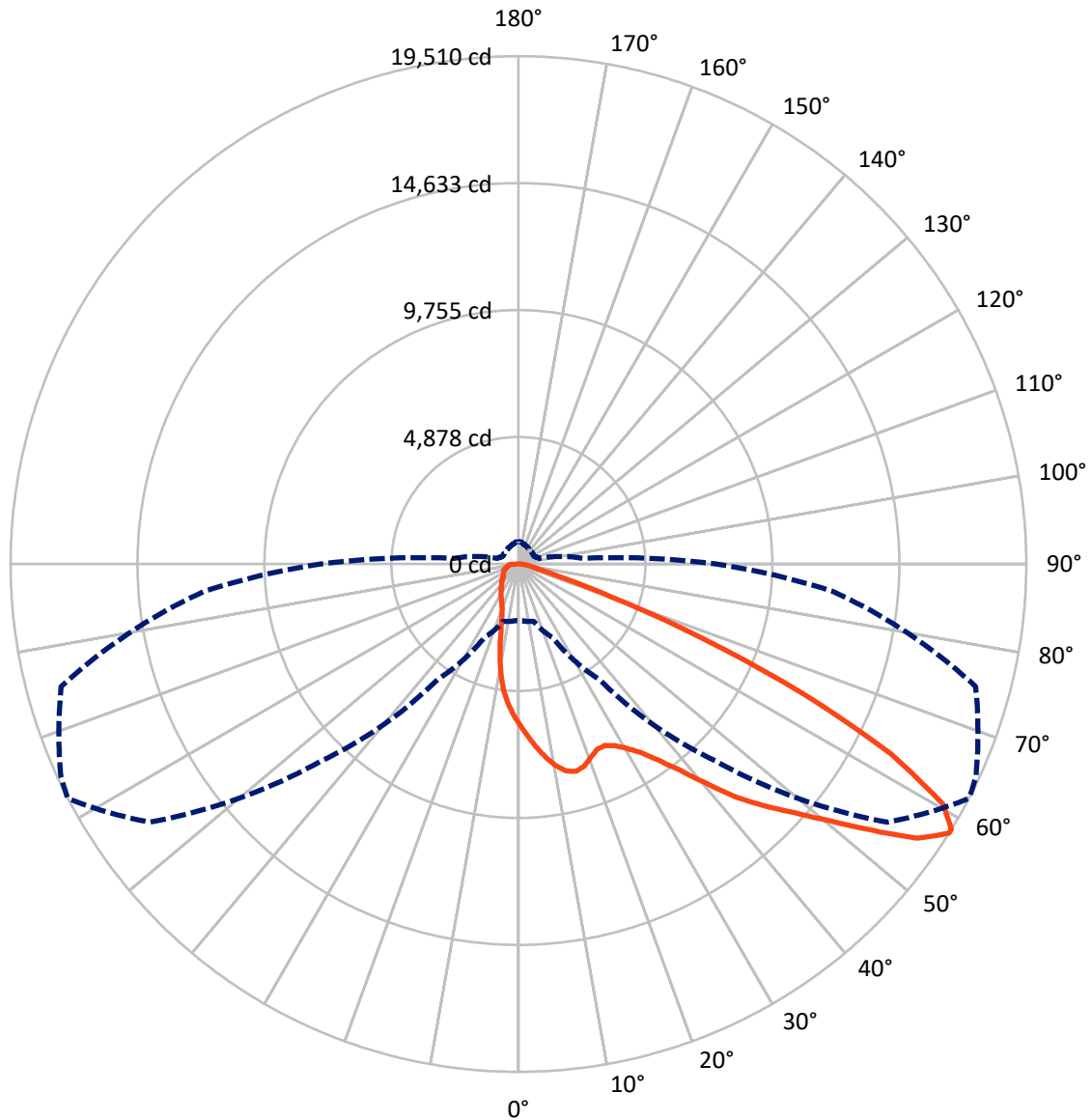
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	3541.6	0.0	3541.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	19681.4	0.0	19681.4
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	23223.0	0.0	23223.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.7	2.4
10°-20°	1410.2	6.1
20°-30°	2279.7	9.8
30°-40°	3619.0	15.6
40°-50°	5295.3	22.8
50°-60°	5538.5	23.8
60°-70°	3272.1	14.1
70°-80°	921.8	4.0
80°-90°	334.7	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°	23223.0	100.0
0°-180°	23223.0	100.0



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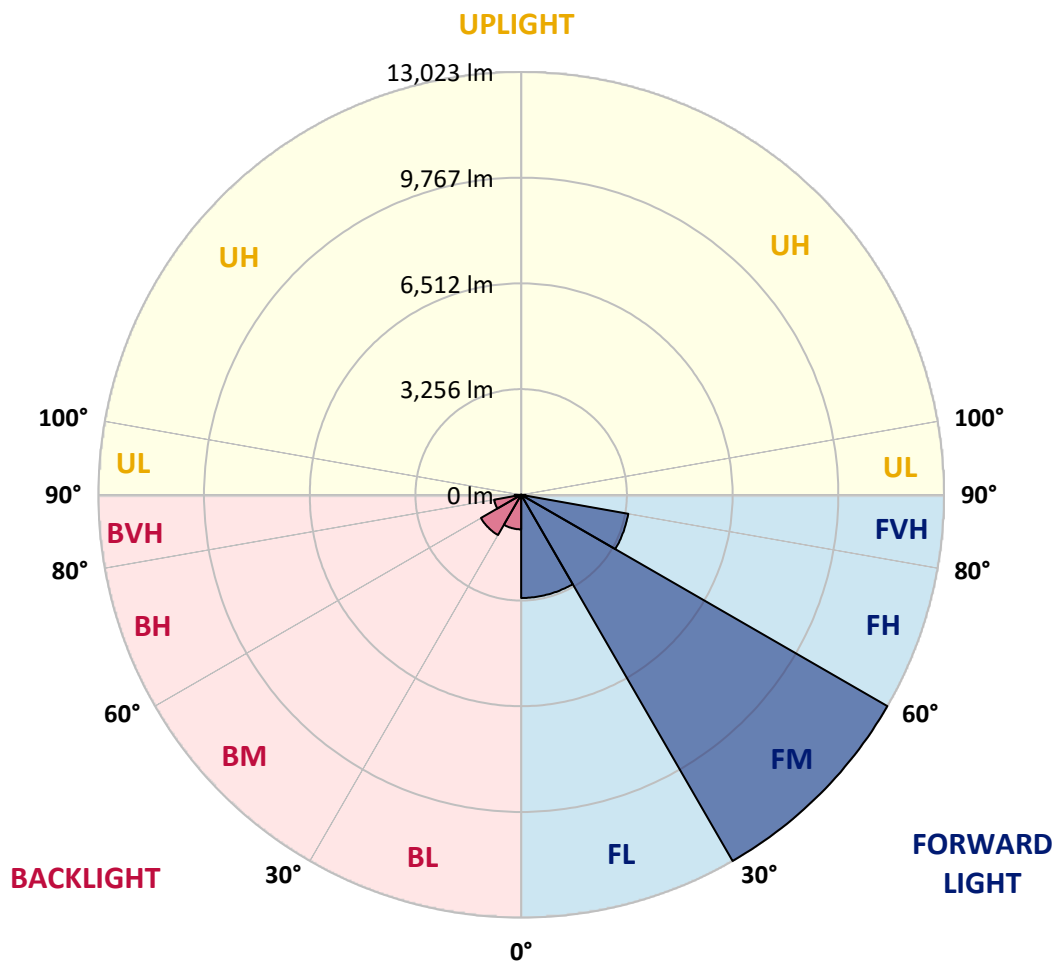
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3177.2	13.7			
FM (30°-60°)	13023.3	56.1			
FH (60°-80°)	3348.9	14.4			G2/5000
FVH (80°-90°)	132.0	0.6			G2/225
BL (0°-30°)	1064.4	4.6	B3/2500		
BM (30°-60°)	1429.5	6.2	B2/2500		
BH (60°-80°)	845.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	202.6	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°	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7
2.5°	7049.0	6992.2	6956.1	6924.4	6882.8	6794.2	6675.0	6599.6	6561.3	6431.2	6277.0
5°	7740.1	7689.8	7652.7	7610.0	7535.7	7396.8	7204.3	7051.2	6975.8	6715.5	6407.1
7.5°	7578.3	7599.1	7663.6	7776.2	7872.5	7853.9	7682.2	7487.5	7388.0	7026.1	6558.0
10°	6602.9	6638.9	6750.5	7014.0	7440.5	7877.9	8011.3	7876.8	7776.2	7333.3	6713.3
12.5°	6407.1	6406.0	6414.8	6484.8	6738.5	7354.1	8022.3	8157.9	8097.7	7626.4	6871.9
15°	6486.9	6489.1	6482.6	6512.1	6590.8	6834.7	7687.7	8266.1	8308.8	7921.7	7035.9
17.5°	6696.9	6691.4	6666.3	6666.3	6694.7	6789.9	7294.0	8165.5	8362.4	8183.0	7180.3
20°	7049.0	7023.9	6957.2	6895.9	6865.3	6916.7	7132.1	7933.7	8269.4	8411.6	7299.4
22.5°	7475.5	7455.8	7347.6	7216.3	7110.3	7109.2	7215.2	7731.4	8108.7	8627.0	7400.1
25°	8026.7	7994.9	7834.2	7624.2	7438.3	7367.2	7396.8	7721.6	8021.2	8861.0	7489.7
27.5°	8674.0	8616.1	8425.8	8122.9	7849.5	7706.2	7663.6	7899.8	8101.0	9150.8	7614.4
30°	9459.2	9392.5	9148.6	8753.9	8367.8	8132.7	8042.0	8215.8	8365.7	9504.0	7814.5
32.5°	10352.6	10256.4	9974.3	9539.0	9031.6	8672.9	8525.3	8633.6	8752.8	9929.4	8064.9
35°	11587.3	11472.4	11064.5	10464.2	9891.2	9398.0	9161.8	9240.5	9356.4	10563.7	8426.9
37.5°	12429.3	12377.9	12106.7	11542.4	10919.1	10351.5	9986.3	10032.2	10097.8	11356.5	8890.6
40°	12421.6	12442.4	12447.9	12453.4	12029.1	11485.6	11093.0	11044.9	11031.7	12227.0	9417.7
42.5°	11799.4	11884.7	12160.3	12719.1	12977.2	12727.8	12368.1	12229.2	12160.3	13252.7	9976.5
45°	10846.9	10892.9	11409.0	12500.4	13462.7	13958.1	13685.8	13248.4	13123.7	14195.4	10440.1
47.5°	10355.9	10406.2	10731.0	11920.8	13457.2	14952.1	15109.6	14276.3	14053.2	15015.5	10840.4
50°	9186.9	9291.9	9700.9	10912.5	12966.2	15409.2	16597.9	15501.1	15039.6	15813.8	11241.7
52.5°	7040.3	7202.1	7660.3	9254.7	11720.7	15182.9	17788.8	16986.1	16334.4	16640.6	11586.2
55°	4440.9	4561.2	4946.1	6536.1	9376.1	14005.1	18240.4	18592.5	18013.0	17423.5	11884.7
57.5°	2414.6	2468.1	2612.5	3608.7	6098.7	11401.4	17582.1	19506.7	19266.2	18088.4	12110.0
58°	2160.9	2196.9	2286.6	3127.6	5408.7	10689.5	17290.1	19510.0	19389.7	18185.7	12127.5
60°	1603.1	1584.6	1504.7	1784.7	3010.5	7384.7	15525.1	18729.2	19082.5	18304.9	12042.2
62.5°	1408.5	1363.7	1200.7	1182.1	1464.3	3402.0	11879.2	16043.5	16877.9	17624.7	11523.8
65°	1323.2	1275.1	1065.1	997.3	1056.4	1439.1	6997.6	12032.3	13078.9	15562.3	10198.4
67.5°	1259.8	1197.4	978.7	885.8	890.1	951.4	2805.0	7578.3	8756.1	11815.8	7932.6
70°	1198.5	1130.7	905.5	798.3	773.1	752.4	1115.4	3793.5	4861.9	7463.5	5057.7
72.5°	1132.9	1066.2	840.9	729.4	680.2	611.3	728.3	1551.7	2167.4	3531.1	2294.3
75°	1037.8	977.6	776.4	668.2	598.2	506.3	550.1	810.3	972.2	1406.3	1105.6
77.5°	920.8	871.6	704.2	617.9	530.4	411.2	423.2	562.1	623.3	804.9	657.2
80°	661.6	679.1	626.6	555.5	472.4	333.5	324.8	410.1	442.9	517.2	427.6
82.5°	464.8	474.6	518.3	453.8	390.4	262.5	239.5	288.7	308.4	340.1	230.7
85°	320.4	309.5	355.4	316.0	282.1	175.0	164.0	195.7	207.8	211.1	119.2
87.5°	192.5	192.5	205.6	169.5	152.0	90.8	88.6	111.5	119.2	113.7	65.6
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°	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7	6168.7
2.5°	6185.1	6107.5	5942.4	5810.0	5642.7	5468.8	5371.5	5267.6	5196.6	5145.2	5227.2
5°	6232.1	6073.6	5732.4	5408.7	5051.1	4679.3	4397.2	4134.7	3952.1	3838.4	3945.5
7.5°	6306.5	6062.6	5519.1	4965.8	4323.9	3704.9	3151.6	2805.0	2602.6	2503.1	2565.5
10°	6391.8	6045.1	5268.7	4365.5	3446.9	2667.2	2253.8	2113.8	2067.9	2049.3	2058.1
12.5°	6462.9	6008.0	4961.4	3639.3	2588.4	2106.2	1987.0	1983.7	1993.5	1995.7	1999.0
15°	6513.2	5953.3	4505.4	2882.6	2070.1	1919.2	1912.6	1932.3	1950.9	1958.5	1962.9
17.5°	6547.1	5840.7	3990.4	2279.0	1854.7	1828.4	1843.7	1868.9	1888.6	1894.0	1898.4
20°	6543.8	5675.5	3376.9	1900.6	1737.7	1737.7	1763.9	1783.6	1784.7	1778.1	1781.4
22.5°	6509.9	5449.2	2782.0	1699.4	1633.8	1652.4	1678.6	1660.0	1583.5	1533.2	1536.4
25°	6453.0	5179.1	2272.4	1571.4	1537.5	1570.3	1562.7	1422.7	1313.4	1264.1	1264.1
27.5°	6402.7	4859.7	1880.9	1459.9	1441.3	1481.8	1346.2	1219.3	1173.4	1150.4	1142.8
30°	6366.6	4515.3	1619.5	1352.7	1350.5	1321.0	1167.9	1132.9	1125.3	1106.7	1100.1
32.5°	6375.4	4166.4	1452.2	1258.7	1266.3	1130.7	1082.6	1090.3	1083.7	1064.0	1055.3
35°	6447.6	3835.1	1342.9	1173.4	1150.4	1021.4	1032.3	1046.5	1044.3	1017.0	1008.3
37.5°	6576.6	3521.2	1270.7	1102.3	1003.9	966.7	984.2	1006.1	1000.6	982.0	975.4
40°	6712.2	3226.0	1211.7	1046.5	917.5	929.5	944.8	956.9	962.3	967.8	963.4
42.5°	6844.5	2917.6	1139.5	989.7	881.4	894.5	901.1	913.1	942.6	963.4	962.3
45°	6923.3	2627.8	1065.1	908.7	853.0	860.6	856.2	880.3	916.4	950.3	951.4
47.5°	7010.8	2402.5	1006.1	834.4	825.6	831.1	818.0	842.0	874.8	916.4	920.8
50°	7116.8	2268.0	959.0	775.3	788.4	788.4	785.2	807.0	853.0	901.1	909.8
52.5°	7237.1	2241.8	919.7	732.7	751.3	750.2	753.5	786.3	836.6	883.6	891.2
55°	7383.7	2312.9	877.0	701.0	715.2	719.6	730.5	767.7	810.3	863.9	867.2
57.5°	7554.2	2457.2	843.1	675.8	682.4	696.6	714.1	748.0	793.9	853.0	856.2
58°	7582.7	2487.8	837.7	673.6	675.8	692.2	711.9	744.7	790.6	855.2	858.4
60°	7583.8	2589.5	825.6	663.8	650.7	678.0	699.9	732.7	785.2	862.8	870.5
62.5°	7314.8	2588.4	816.9	649.6	624.4	658.3	683.5	721.7	779.7	881.4	896.7
65°	6441.0	2352.2	775.3	627.7	603.6	640.8	669.3	714.1	795.0	962.3	972.2
67.5°	5038.0	1927.9	697.7	597.1	576.3	623.3	660.5	713.0	811.4	980.9	987.5
70°	3331.0	1442.4	612.4	562.1	547.9	602.5	664.9	750.2	792.8	941.5	924.0
72.5°	1728.9	1012.6	543.5	518.3	515.1	584.0	728.3	745.8	774.2	885.8	863.9
75°	907.6	703.2	483.3	470.2	475.7	579.6	859.5	726.1	750.2	847.5	889.1
77.5°	555.5	567.6	432.0	426.5	437.4	566.5	858.4	701.0	715.2	779.7	825.6
80°	371.8	460.4	392.6	393.7	401.3	518.3	771.0	661.6	672.5	737.1	784.1
82.5°	235.1	272.3	356.5	375.1	365.2	427.6	655.0	602.5	617.9	843.1	891.2
85°	119.2	170.6	309.5	360.9	329.2	299.6	531.5	528.2	535.8	608.0	635.4
87.5°	54.7	94.0	241.7	314.9	248.2	187.0	386.0	391.5	422.1	432.0	432.0
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)