

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: P193908

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38118 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

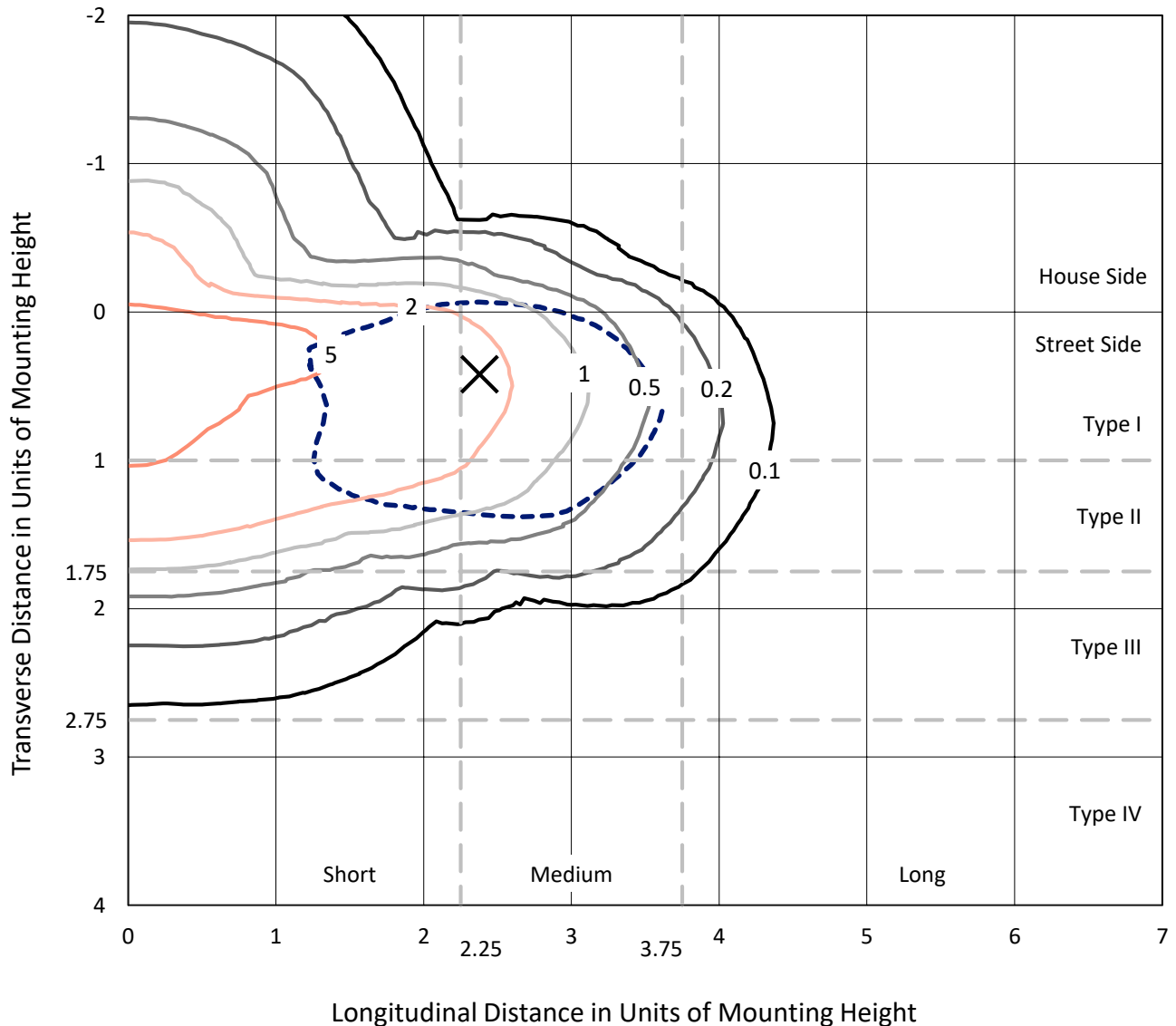
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

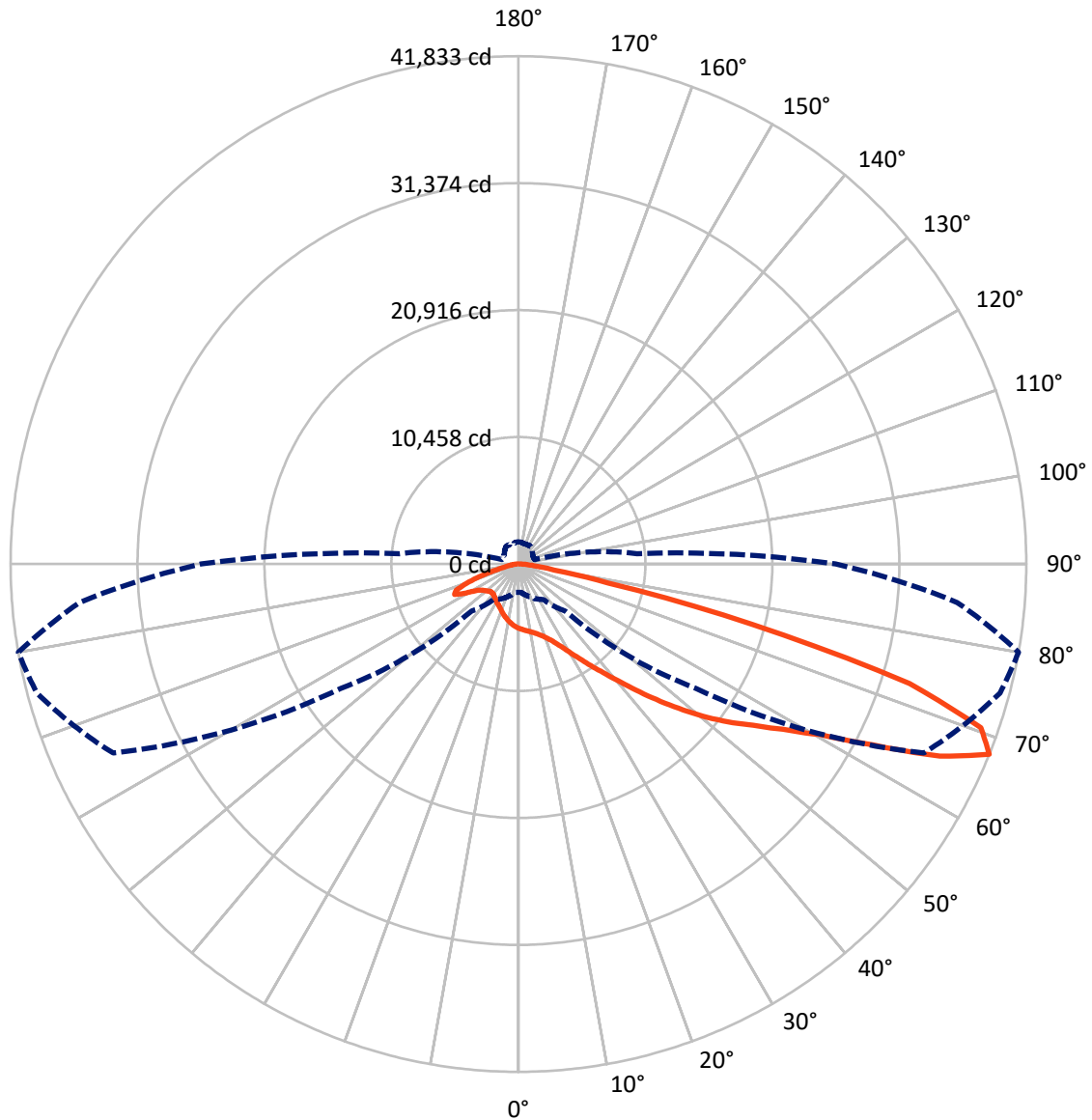
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7019.9	0.0	7019.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	31098.1	0.0	31098.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	38118.0	0.0	38118.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.5	1.3
10°-20°	1407.2	3.7
20°-30°	2329.3	6.1
30°-40°	3810.1	10.0
40°-50°	6151.8	16.1
50°-60°	8881.4	23.3
60°-70°	9801.2	25.7
70°-80°	4517.7	11.9
80°-90°	730.7	1.9
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°	38118.0	100.0
0°-180°	38118.0	100.0



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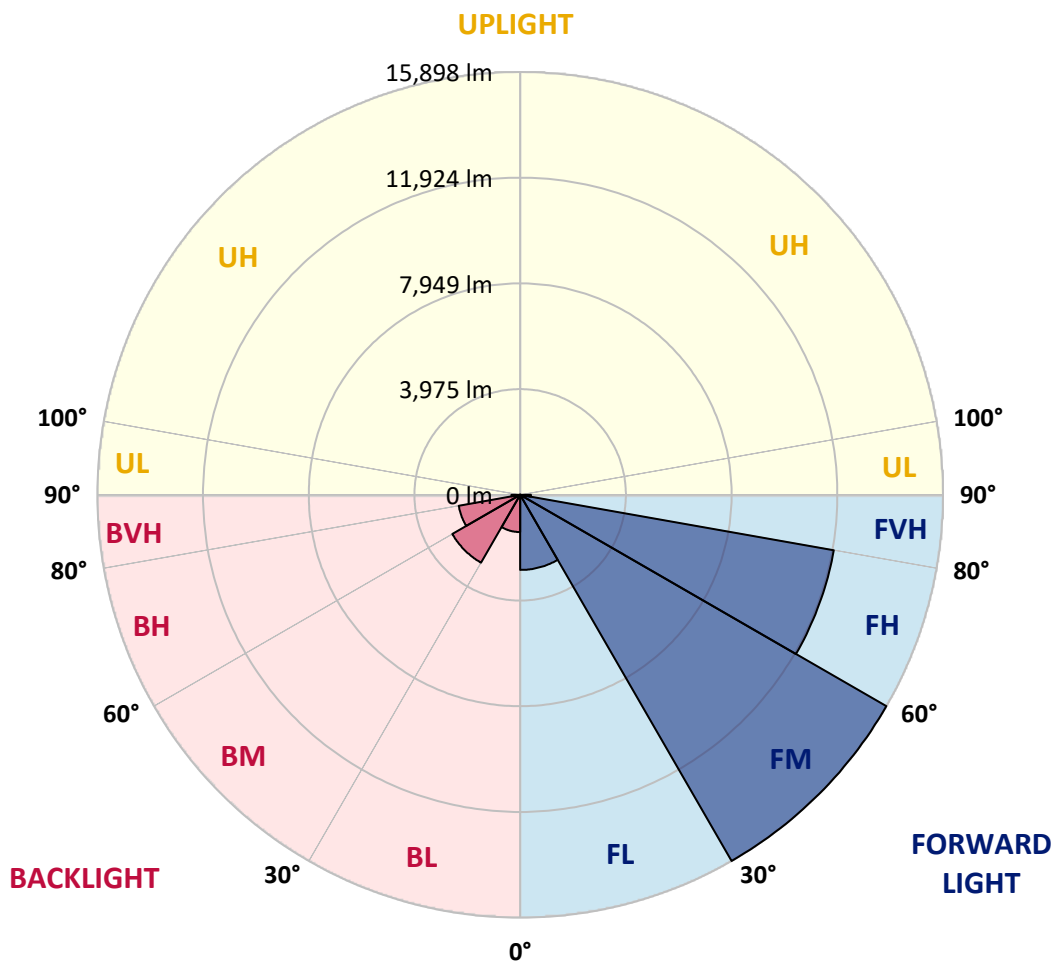
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2824.5	7.4			
FM (30°-60°)	15898.1	41.7			
FH (60°-80°)	11973.9	31.4			G4/12000
FVH (80°-90°)	401.7	1.1			G3/500
BL (0°-30°)	1400.6	3.7	B3/2500		
BM (30°-60°)	2945.3	7.7	B3/5000		
BH (60°-80°)	2345.1	6.2	B3/2500		G3/2500
BVH (80°-90°)	329.0	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7
2.5°	5793.0	5759.2	5764.8	5755.5	5727.3	5678.5	5626.0	5530.3	5430.8	5378.3	5337.0
5°	6277.1	6267.8	6254.6	6224.6	6153.3	6052.0	5926.2	5757.3	5575.3	5479.6	5387.7
7.5°	6639.3	6633.7	6616.8	6598.0	6528.6	6406.6	6217.1	5976.9	5712.3	5580.9	5438.3
10°	6669.4	6678.7	6691.9	6742.5	6751.9	6686.2	6493.0	6202.1	5854.9	5686.0	5504.0
12.5°	6414.1	6434.8	6485.4	6614.9	6751.9	6832.6	6733.2	6438.5	6021.9	5817.4	5586.6
15°	6076.4	6087.6	6149.5	6327.8	6573.6	6823.2	6917.1	6699.4	6237.7	5986.3	5710.4
17.5°	5931.9	5937.5	5980.6	6098.9	6327.8	6684.4	7020.3	6982.7	6502.3	6196.5	5862.4
20°	5858.7	5871.8	5933.7	6050.1	6194.6	6506.1	7035.3	7288.6	6817.6	6459.2	6053.8
22.5°	6067.0	6061.3	6083.9	6142.0	6264.0	6451.7	7024.0	7603.9	7219.2	6797.0	6303.4
25°	6553.0	6573.6	6534.2	6468.6	6508.0	6639.3	7084.1	7945.4	7722.1	7230.4	6629.9
27.5°	7245.5	7224.8	7166.6	7012.8	6932.1	6988.4	7283.0	8313.2	8347.0	7800.9	7061.6
30°	7936.0	7919.2	7862.9	7675.2	7510.1	7463.1	7669.6	8735.5	9092.0	8485.9	7590.8
32.5°	8652.9	8634.1	8581.6	8393.9	8195.0	8086.2	8219.4	9223.4	9970.3	9304.1	8213.8
35°	9536.8	9501.1	9390.4	9129.5	8934.4	8849.9	8911.9	9837.0	10983.6	10272.4	8970.0
37.5°	10368.1	10422.5	10309.9	9949.6	9696.3	9666.2	9735.7	10585.8	12075.8	11355.2	9838.9
40°	11203.2	11212.5	11111.2	10816.6	10555.7	10507.0	10681.5	11494.0	13365.0	12650.0	10895.4
42.5°	12066.4	12085.2	11914.4	11642.3	11450.9	11460.3	11659.2	12558.0	14843.7	14175.7	12111.4
45°	13089.1	13117.3	12929.6	12573.1	12398.5	12749.5	12666.9	13751.6	16465.1	15909.6	13507.6
47.5°	14158.8	14201.9	14059.3	13725.3	13507.6	13989.9	13674.6	15074.5	18210.3	17769.3	15040.8
50°	14742.4	14804.3	14943.2	14918.8	14871.9	14791.2	14798.7	16493.2	20009.9	19705.9	16617.1
52.5°	14429.0	14427.1	14933.8	15549.3	16206.1	16254.9	16168.6	17988.9	21691.3	21599.4	18101.5
55°	12995.3	13092.9	13860.4	15052.0	16846.0	17966.3	18221.6	19702.2	23342.7	23449.7	19608.3
57.5°	10608.3	10689.0	11724.8	13385.6	15982.8	18983.4	21141.5	22192.4	25189.3	25688.5	21614.4
60°	7194.8	7292.4	8390.2	10385.0	13659.6	18416.7	23920.7	26636.1	27399.9	28535.2	24429.3
62.5°	4227.9	4316.1	5211.3	6551.1	9617.5	15783.9	25140.5	32958.3	30911.0	32830.7	28722.9
65°	2910.6	2970.6	3406.0	4077.8	5526.5	10630.8	23628.0	37323.2	36313.6	38152.7	33701.4
67.5°	2342.0	2334.5	2679.8	3137.6	3558.0	5481.5	17866.9	36829.7	41065.1	41832.6	36285.5
70°	1929.1	1921.6	2156.2	2535.3	2843.0	3087.0	9731.9	31079.9	40096.8	40408.3	33906.0
72.5°	1613.9	1621.4	1771.5	2053.0	2332.6	2325.1	4276.7	21864.0	31543.4	33697.7	27028.3
75°	1362.4	1366.1	1465.6	1664.5	1893.5	1872.8	2319.4	11845.0	18336.0	19835.4	14982.6
77.5°	1159.7	1163.5	1227.3	1338.0	1501.3	1493.8	1692.7	5117.4	7648.9	7555.1	5124.9
80°	1034.0	1034.0	1064.0	1084.7	1174.7	1141.0	1255.4	2458.3	3233.3	2985.6	2045.5
82.5°	810.7	814.4	998.3	990.8	925.2	882.0	882.0	1448.7	1713.3	1583.8	1197.3
85°	456.0	454.1	643.7	776.9	814.4	621.1	615.5	810.7	932.7	821.9	579.9
87.5°	195.2	198.9	298.4	345.3	461.6	386.6	380.9	418.5	474.8	411.0	268.4
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°	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7	5295.7
2.5°	5297.6	5248.8	5141.8	5008.6	4888.5	4809.7	4738.4	4635.1	4640.8	4569.5	4516.9
5°	5293.8	5192.5	4944.8	4650.2	4366.8	4162.2	4008.4	3869.5	3835.7	3770.0	3730.6
7.5°	5297.6	5132.4	4715.8	4244.8	3893.9	3634.9	3503.6	3430.4	3413.5	3391.0	3392.9
10°	5310.7	5078.0	4464.4	3865.7	3497.9	3327.2	3295.3	3317.8	3344.1	3351.6	3353.4
12.5°	5340.7	5029.2	4188.5	3528.0	3250.2	3197.7	3252.1	3329.0	3379.7	3404.1	3402.2
15°	5408.3	4991.7	3923.9	3263.4	3113.2	3141.4	3242.7	3351.6	3424.8	3458.5	3460.4
17.5°	5481.5	4937.3	3651.8	3060.7	3011.9	3083.2	3208.9	3336.6	3426.6	3464.2	3471.7
20°	5577.2	4869.7	3366.6	2908.7	2916.2	2996.9	3115.1	3242.7	3342.2	3374.1	3389.1
22.5°	5702.9	4796.5	3117.0	2784.8	2807.4	2869.3	2961.2	3072.0	3158.3	3173.3	3186.4
25°	5871.8	4717.7	2918.1	2672.2	2681.6	2717.3	2779.2	2844.9	2904.9	2888.1	2901.2
27.5°	6098.9	4650.2	2769.8	2569.0	2552.1	2559.7	2591.6	2612.2	2644.1	2597.2	2602.8
30°	6365.3	4577.0	2655.4	2479.0	2432.0	2418.9	2426.4	2437.7	2462.1	2398.3	2388.9
32.5°	6675.0	4488.8	2548.4	2400.1	2334.5	2308.2	2311.9	2342.0	2435.8	2396.4	2375.7
35°	7035.3	4389.3	2435.8	2313.8	2268.8	2231.2	2227.5	2321.3	2600.9	2576.5	2557.8
37.5°	7457.5	4289.9	2323.2	2216.2	2220.0	2178.7	2165.6	2272.5	2632.8	2537.1	2524.0
40°	7994.2	4237.3	2227.5	2113.0	2159.9	2154.3	2128.0	2182.5	2422.7	2248.1	2225.6
42.5°	8658.5	4244.8	2156.2	2002.3	2088.6	2148.7	2107.4	2109.3	2195.6	2064.2	2043.6
45°	9478.6	4333.0	2105.5	1914.1	2007.9	2143.1	2099.9	2069.9	2077.4	2007.9	1996.7
47.5°	10435.6	4515.0	2069.9	1840.9	1931.0	2122.4	2098.0	2058.6	2041.7	2004.2	1994.8
50°	11499.7	4779.6	2043.6	1771.5	1861.6	2088.6	2099.9	2047.3	2028.6	2013.6	2007.9
52.5°	12544.9	5081.8	2004.2	1711.4	1807.1	2047.3	2105.5	2036.1	2015.4	2004.2	1998.6
55°	13710.3	5459.0	1944.1	1660.8	1762.1	1994.8	2105.5	2019.2	1996.7	1998.6	1996.7
57.5°	15284.7	6068.8	1872.8	1617.6	1707.7	1931.0	2069.9	2000.4	1972.3	1974.2	1976.0
60°	17744.9	7144.1	1786.5	1574.4	1640.1	1855.9	2021.1	1959.1	1931.0	1938.5	1940.4
62.5°	21362.9	8722.3	1673.9	1510.6	1568.8	1775.2	1953.5	1906.6	1878.5	1897.2	1897.2
65°	25123.6	10114.7	1535.0	1430.0	1493.8	1687.0	1869.1	1840.9	1812.8	1855.9	1854.1
67.5°	26135.1	9803.2	1396.2	1341.8	1418.7	1589.5	1767.7	1752.7	1737.7	1812.8	1809.0
70°	23217.0	7870.4	1268.6	1251.7	1336.1	1484.4	1658.9	1658.9	1649.5	1705.8	1692.7
72.5°	17688.6	5580.9	1146.6	1156.0	1242.3	1369.9	1540.7	1553.8	1538.8	1566.9	1555.7
75°	9469.2	3193.9	1024.6	1050.9	1125.9	1253.6	1409.3	1422.4	1413.1	1411.2	1416.8
77.5°	3147.0	1561.3	897.0	938.3	1004.0	1133.5	1272.3	1293.0	1270.4	1266.7	1264.8
80°	1401.8	981.4	756.3	810.7	868.9	996.5	1127.8	1144.7	1120.3	1154.1	1110.9
82.5°	900.8	645.5	606.1	666.2	722.5	859.5	983.3	987.1	964.6	1120.3	955.2
85°	437.2	399.7	456.0	510.4	559.2	675.6	814.4	816.3	760.0	692.5	668.1
87.5°	217.7	232.7	304.0	352.8	377.2	463.5	593.0	581.7	557.3	506.7	467.3
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)