

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: P193907

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193907
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-09-LED-E1-T2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 34428 lumens
Efficiency: N/A
Efficacy: 92.1 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

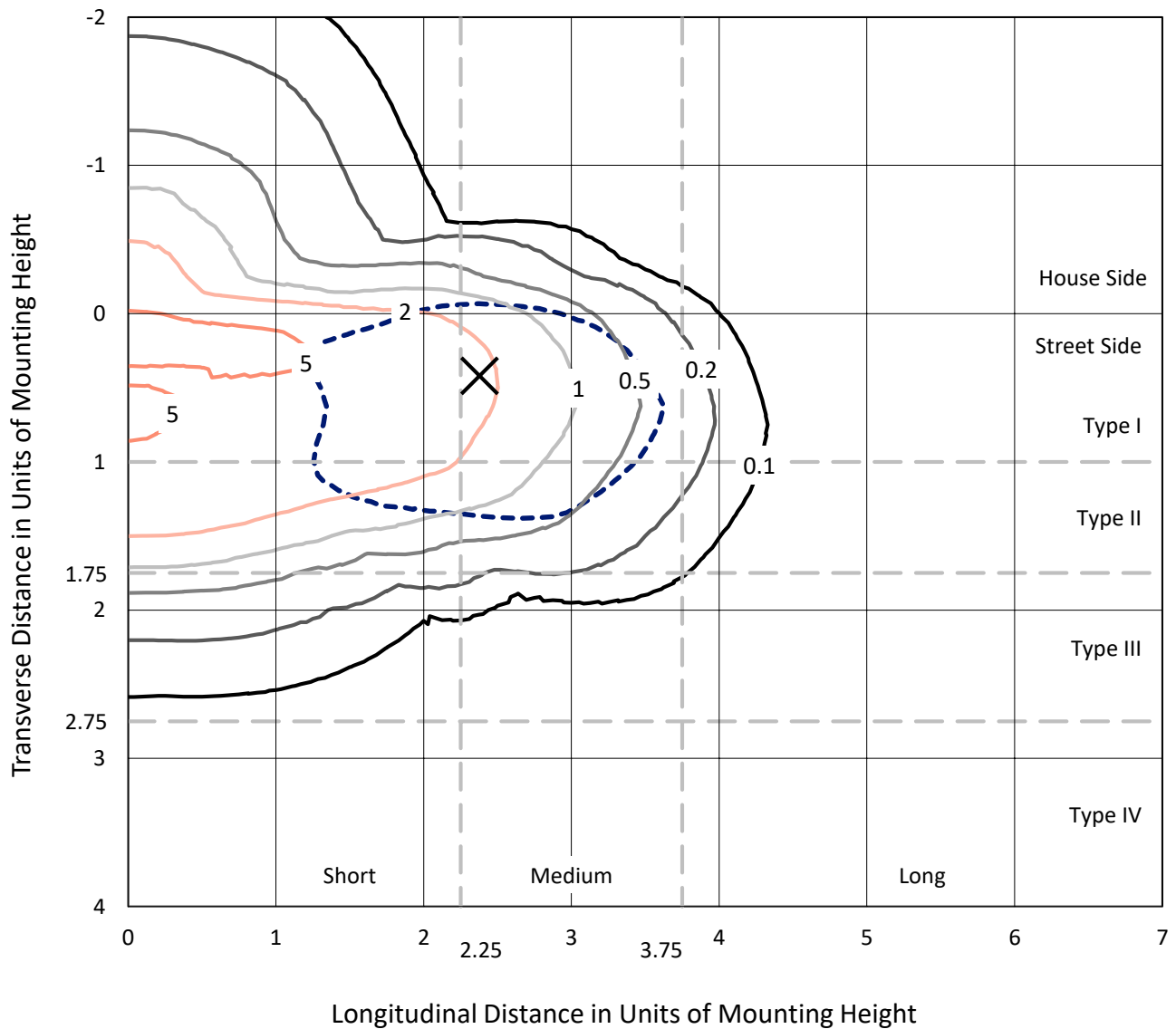
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

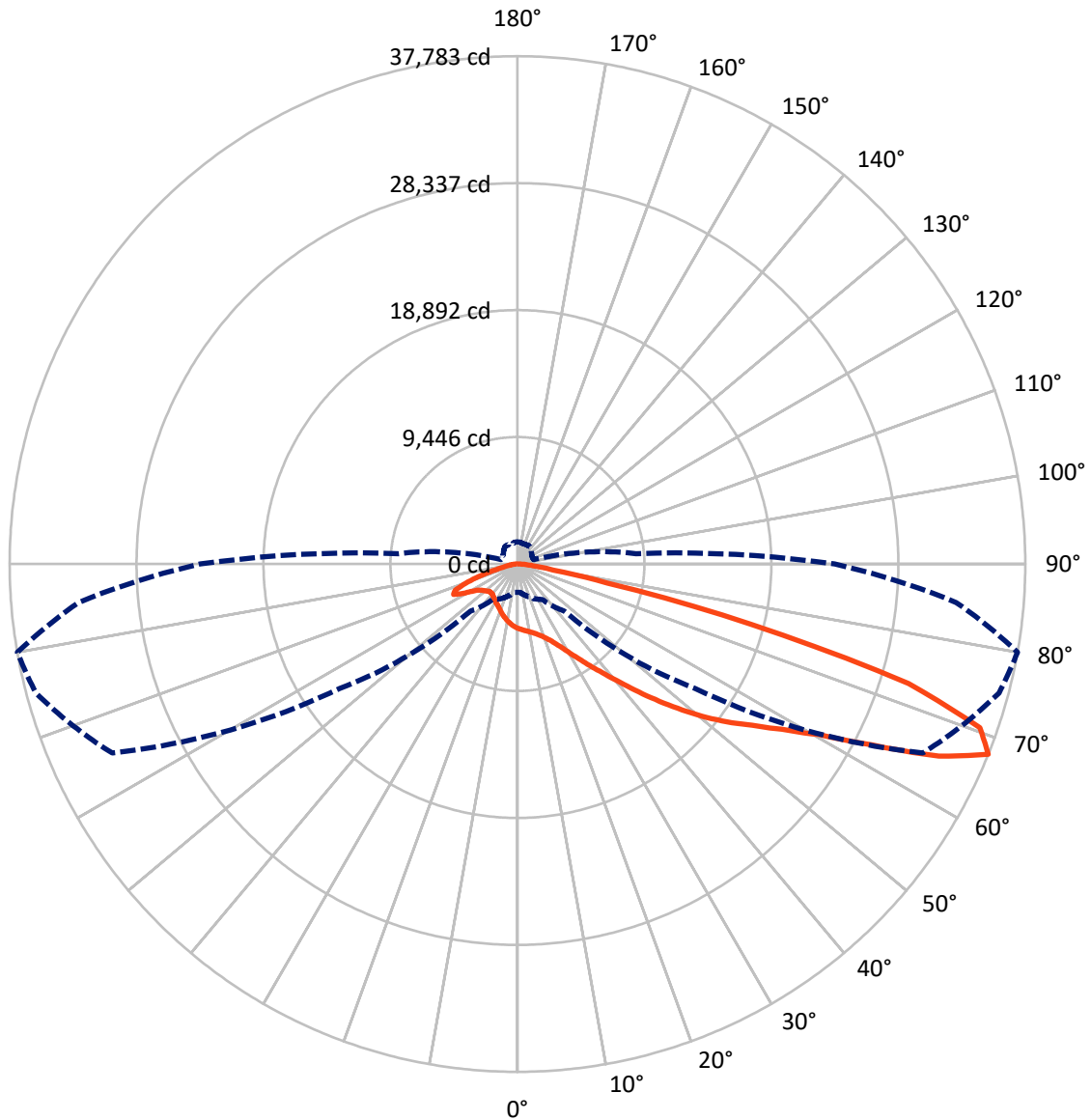
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	6340.3	0.0	6340.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	28087.7	0.0	28087.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	34428.0	0.0	34428.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	1.3
10°-20°	1271.0	3.7
20°-30°	2103.8	6.1
30°-40°	3441.3	10.0
40°-50°	5556.3	16.1
50°-60°	8021.7	23.3
60°-70°	8852.4	25.7
70°-80°	4080.4	11.9
80°-90°	660.0	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°	34428.0	100.0
0°-180°	34428.0	100.0



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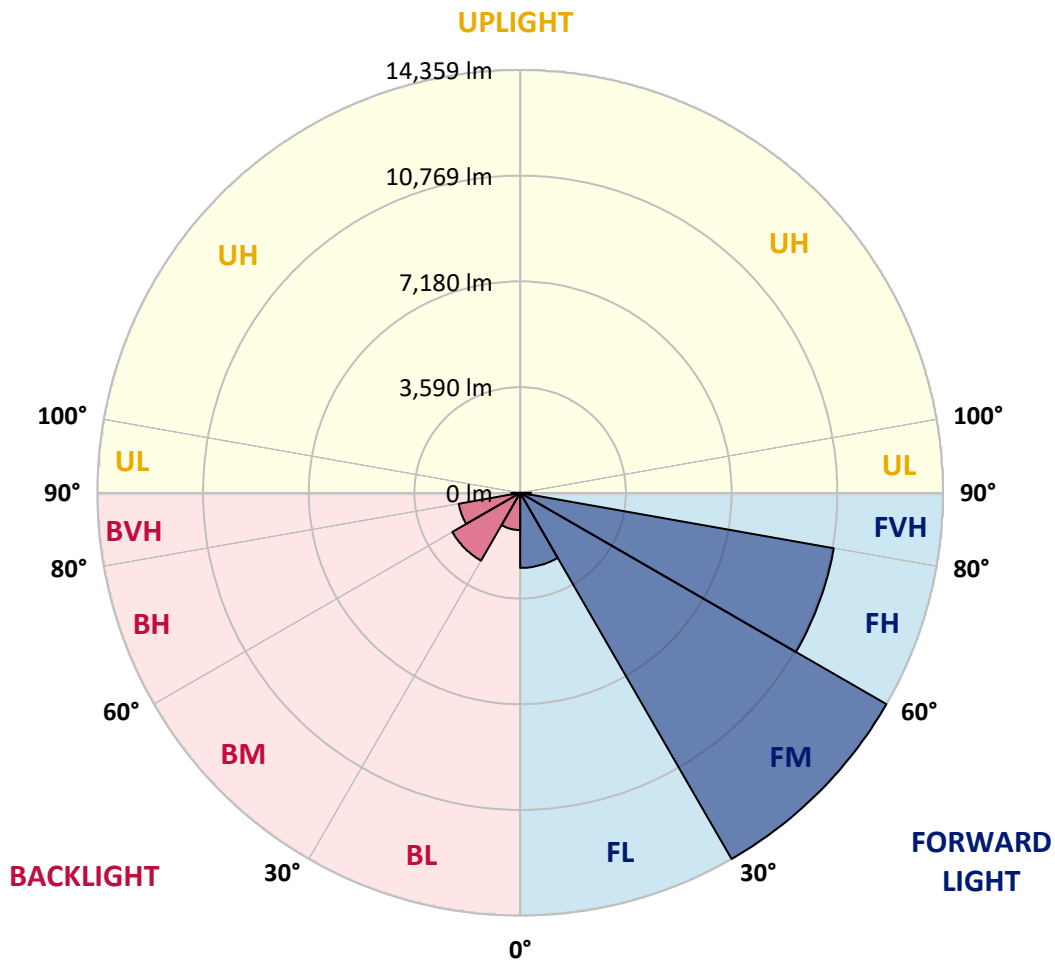
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2551.1	7.4			
FM (30°-60°)	14359.0	41.7			
FH (60°-80°)	10814.7	31.4			G4/12000
FVH (80°-90°)	362.9	1.1			G3/500
BL (0°-30°)	1265.0	3.7	B3/2500		
BM (30°-60°)	2660.2	7.7	B3/5000		
BH (60°-80°)	2118.1	6.2	B3/2500		G3/2500
BVH (80°-90°)	297.1	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°	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1
2.5°	5232.2	5201.7	5206.8	5198.3	5172.9	5128.8	5081.4	4994.9	4905.1	4857.6	4820.3
5°	5669.5	5661.0	5649.2	5622.0	5557.6	5466.1	5352.5	5200.0	5035.6	4949.2	4866.1
7.5°	5996.6	5991.5	5976.3	5959.3	5896.6	5786.4	5615.3	5398.3	5159.3	5040.7	4911.9
10°	6023.7	6032.2	6044.1	6089.8	6098.3	6039.0	5864.4	5601.7	5288.1	5135.6	4971.2
12.5°	5793.2	5811.9	5857.6	5974.6	6098.3	6171.2	6081.4	5815.3	5439.0	5254.2	5045.8
15°	5488.1	5498.3	5554.2	5715.3	5937.3	6162.7	6247.5	6050.8	5633.9	5406.8	5157.6
17.5°	5357.6	5362.7	5401.7	5508.5	5715.3	6037.3	6340.7	6306.8	5872.9	5596.6	5294.9
20°	5291.5	5303.4	5359.3	5464.4	5594.9	5876.3	6354.2	6583.1	6157.6	5833.9	5467.8
22.5°	5479.7	5474.6	5494.9	5547.5	5657.6	5827.1	6344.1	6867.8	6520.3	6139.0	5693.2
25°	5918.6	5937.3	5901.7	5842.4	5878.0	5996.6	6398.3	7176.3	6974.6	6530.5	5988.1
27.5°	6544.1	6525.4	6472.9	6333.9	6261.0	6311.9	6578.0	7508.5	7539.0	7045.8	6378.0
30°	7167.8	7152.5	7101.7	6932.2	6783.1	6740.7	6927.1	7889.8	8211.9	7664.4	6855.9
32.5°	7815.3	7798.3	7750.8	7581.4	7401.7	7303.4	7423.7	8330.5	9005.1	8403.4	7418.6
35°	8613.6	8581.4	8481.4	8245.8	8069.5	7993.2	8049.2	8884.7	9920.3	9278.0	8101.7
37.5°	9364.4	9413.6	9311.9	8986.4	8757.6	8730.5	8793.2	9561.0	10906.8	10255.9	8886.4
40°	10118.6	10127.1	10035.6	9769.5	9533.9	9489.8	9647.5	10381.4	12071.2	11425.4	9840.7
42.5°	10898.3	10915.3	10761.0	10515.3	10342.4	10350.8	10530.5	11342.4	13406.8	12803.4	10939.0
45°	11822.0	11847.5	11678.0	11355.9	11198.3	11515.3	11440.7	12420.3	14871.2	14369.5	12200.0
47.5°	12788.1	12827.1	12698.3	12396.6	12200.0	12635.6	12350.8	13615.3	16447.5	16049.2	13584.7
50°	13315.3	13371.2	13496.6	13474.6	13432.2	13359.3	13366.1	14896.6	18072.9	17798.3	15008.5
52.5°	13032.2	13030.5	13488.1	14044.1	14637.3	14681.4	14603.4	16247.5	19591.5	19508.5	16349.2
55°	11737.3	11825.4	12518.6	13594.9	15215.3	16227.1	16457.6	17794.9	21083.0	21179.7	17710.2
57.5°	9581.4	9654.2	10589.8	12089.8	14435.6	17145.8	19094.9	20044.1	22750.8	23201.7	19522.0
60°	6498.3	6586.4	7578.0	9379.7	12337.3	16633.9	21605.1	24057.6	24747.5	25772.9	22064.4
62.5°	3818.6	3898.3	4706.8	5916.9	8686.4	14255.9	22706.8	29767.8	27918.6	29652.5	25942.4
65°	2628.8	2683.1	3076.3	3683.1	4991.5	9601.7	21340.7	33710.2	32798.3	34459.3	30439.0
67.5°	2115.3	2108.5	2420.3	2833.9	3213.6	4950.8	16137.3	33264.4	37089.8	37783.0	32772.9
70°	1742.4	1735.6	1947.5	2289.8	2567.8	2788.1	8789.8	28071.2	36215.3	36496.6	30623.7
72.5°	1457.6	1464.4	1600.0	1854.2	2106.8	2100.0	3862.7	19747.5	28489.8	30435.6	24411.9
75°	1230.5	1233.9	1323.7	1503.4	1710.2	1691.5	2094.9	10698.3	16561.0	17915.3	13532.2
77.5°	1047.5	1050.8	1108.5	1208.5	1355.9	1349.2	1528.8	4622.0	6908.5	6823.7	4628.8
80°	933.9	933.9	961.0	979.7	1061.0	1030.5	1133.9	2220.3	2920.3	2696.6	1847.5
82.5°	732.2	735.6	901.7	894.9	835.6	796.6	796.6	1308.5	1547.5	1430.5	1081.4
85°	411.9	410.2	581.4	701.7	735.6	561.0	555.9	732.2	842.4	742.4	523.7
87.5°	176.3	179.7	269.5	311.9	416.9	349.2	344.1	378.0	428.8	371.2	242.4
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°	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1
2.5°	4784.7	4740.7	4644.1	4523.7	4415.3	4344.1	4279.7	4186.4	4191.5	4127.1	4079.7
5°	4781.4	4689.8	4466.1	4200.0	3944.1	3759.3	3620.3	3494.9	3464.4	3405.1	3369.5
7.5°	4784.7	4635.6	4259.3	3833.9	3516.9	3283.1	3164.4	3098.3	3083.1	3062.7	3064.4
10°	4796.6	4586.4	4032.2	3491.5	3159.3	3005.1	2976.3	2996.6	3020.3	3027.1	3028.8
12.5°	4823.7	4542.4	3783.1	3186.4	2935.6	2888.1	2937.3	3006.8	3052.5	3074.6	3072.9
15°	4884.7	4508.5	3544.1	2947.5	2811.9	2837.3	2928.8	3027.1	3093.2	3123.7	3125.4
17.5°	4950.8	4459.3	3298.3	2764.4	2720.3	2784.7	2898.3	3013.6	3094.9	3128.8	3135.6
20°	5037.3	4398.3	3040.7	2627.1	2633.9	2706.8	2813.6	2928.8	3018.6	3047.5	3061.0
22.5°	5150.8	4332.2	2815.3	2515.3	2535.6	2591.5	2674.6	2774.6	2852.5	2866.1	2878.0
25°	5303.4	4261.0	2635.6	2413.6	2422.0	2454.2	2510.2	2569.5	2623.7	2608.5	2620.3
27.5°	5508.5	4200.0	2501.7	2320.3	2305.1	2311.9	2340.7	2359.3	2388.1	2345.8	2350.8
30°	5749.2	4133.9	2398.3	2239.0	2196.6	2184.7	2191.5	2201.7	2223.7	2166.1	2157.6
32.5°	6028.8	4054.2	2301.7	2167.8	2108.5	2084.7	2088.1	2115.3	2200.0	2164.4	2145.8
35°	6354.2	3964.4	2200.0	2089.8	2049.2	2015.3	2011.9	2096.6	2349.2	2327.1	2310.2
37.5°	6735.6	3874.6	2098.3	2001.7	2005.1	1967.8	1955.9	2052.5	2378.0	2291.5	2279.7
40°	7220.3	3827.1	2011.9	1908.5	1950.8	1945.8	1922.0	1971.2	2188.1	2030.5	2010.2
42.5°	7820.3	3833.9	1947.5	1808.5	1886.4	1940.7	1903.4	1905.1	1983.1	1864.4	1845.8
45°	8561.0	3913.6	1901.7	1728.8	1813.6	1935.6	1896.6	1869.5	1876.3	1813.6	1803.4
47.5°	9425.4	4078.0	1869.5	1662.7	1744.1	1916.9	1894.9	1859.3	1844.1	1810.2	1801.7
50°	10386.4	4316.9	1845.8	1600.0	1681.4	1886.4	1896.6	1849.2	1832.2	1818.6	1813.6
52.5°	11330.5	4589.8	1810.2	1545.8	1632.2	1849.2	1901.7	1839.0	1820.3	1810.2	1805.1
55°	12383.1	4930.5	1755.9	1500.0	1591.5	1801.7	1901.7	1823.7	1803.4	1805.1	1803.4
57.5°	13805.1	5481.4	1691.5	1461.0	1542.4	1744.1	1869.5	1806.8	1781.4	1783.1	1784.7
60°	16027.1	6452.5	1613.6	1422.0	1481.4	1676.3	1825.4	1769.5	1744.1	1750.8	1752.5
62.5°	19294.9	7878.0	1511.9	1364.4	1416.9	1603.4	1764.4	1722.0	1696.6	1713.6	1713.6
65°	22691.5	9135.6	1386.4	1291.5	1349.2	1523.7	1688.1	1662.7	1637.3	1676.3	1674.6
67.5°	23605.1	8854.2	1261.0	1211.9	1281.4	1435.6	1596.6	1583.1	1569.5	1637.3	1633.9
70°	20969.5	7108.5	1145.8	1130.5	1206.8	1340.7	1498.3	1498.3	1489.8	1540.7	1528.8
72.5°	15976.3	5040.7	1035.6	1044.1	1122.0	1237.3	1391.5	1403.4	1389.8	1415.3	1405.1
75°	8552.5	2884.7	925.4	949.2	1016.9	1132.2	1272.9	1284.7	1276.3	1274.6	1279.7
77.5°	2842.4	1410.2	810.2	847.5	906.8	1023.7	1149.2	1167.8	1147.5	1144.1	1142.4
80°	1266.1	886.4	683.1	732.2	784.7	900.0	1018.6	1033.9	1011.9	1042.4	1003.4
82.5°	813.6	583.1	547.5	601.7	652.5	776.3	888.1	891.5	871.2	1011.9	862.7
85°	394.9	361.0	411.9	461.0	505.1	610.2	735.6	737.3	686.4	625.4	603.4
87.5°	196.6	210.2	274.6	318.6	340.7	418.6	535.6	525.4	503.4	457.6	422.0
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)