

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: P191365

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191365
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-07-LED-E1-T2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34148.2 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

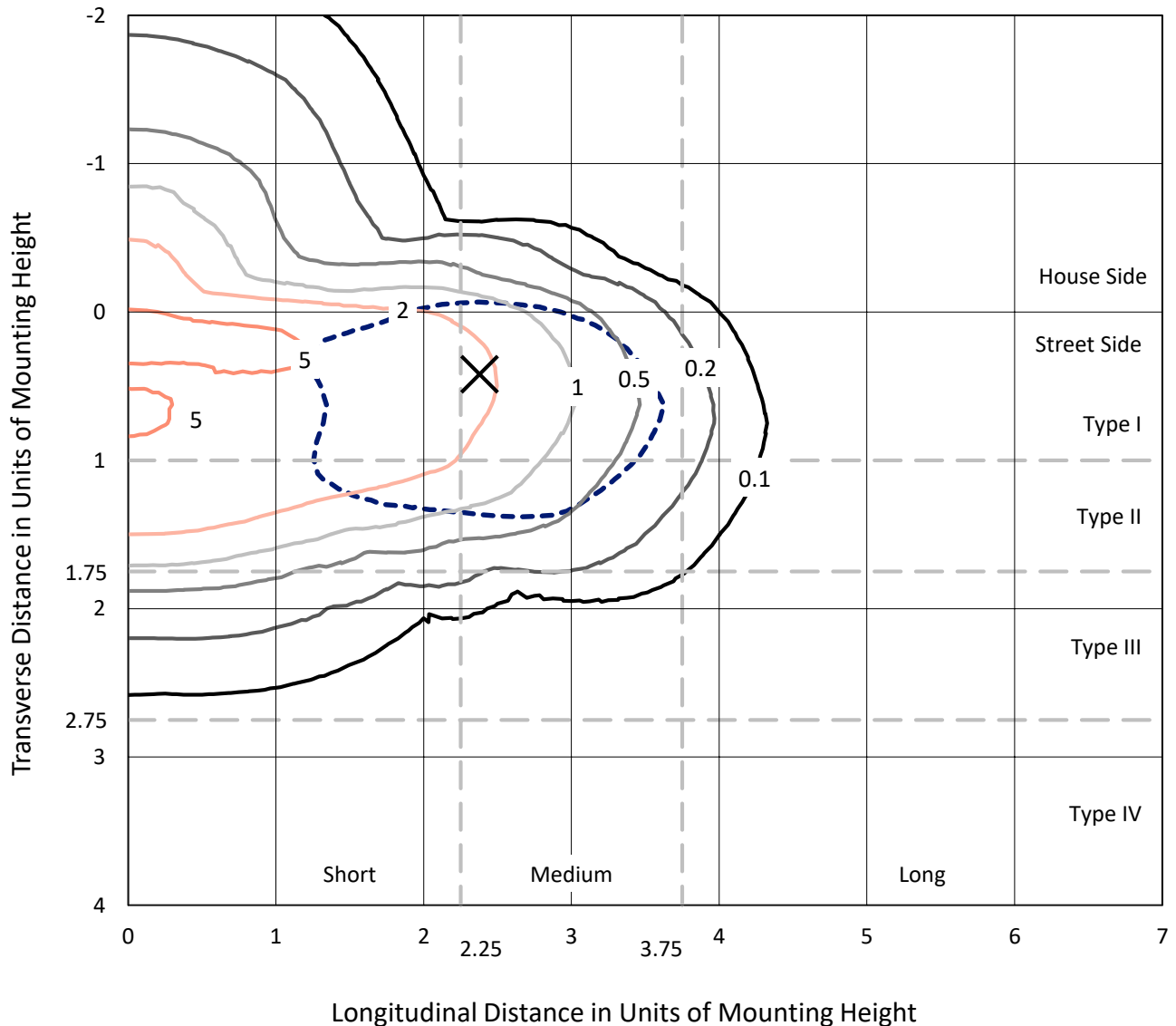
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

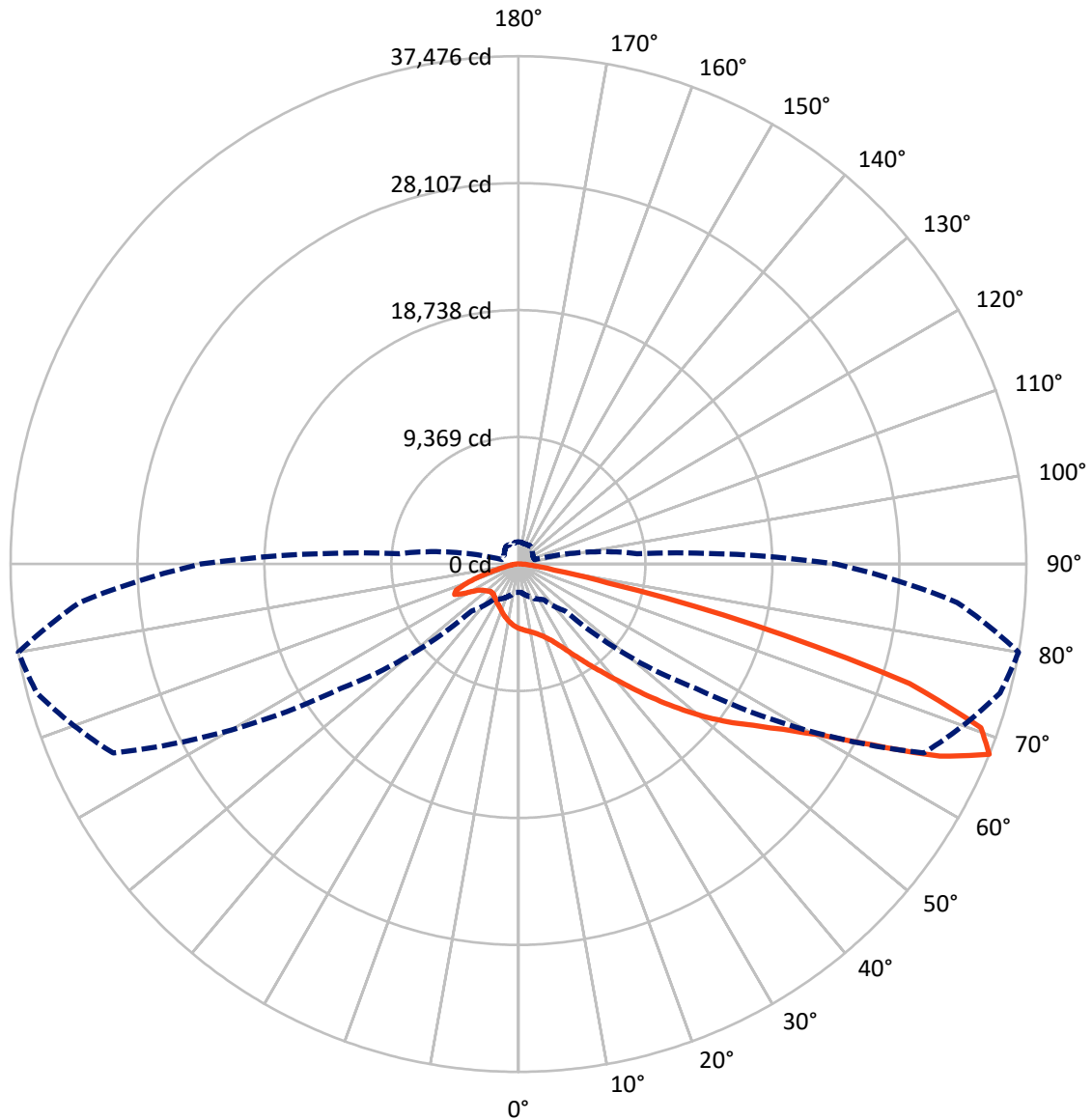
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	6288.8	0.0	6288.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	27859.4	0.0	27859.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	34148.2	0.0	34148.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.6	1.3
10°-20°	1260.7	3.7
20°-30°	2086.7	6.1
30°-40°	3413.3	10.0
40°-50°	5511.1	16.1
50°-60°	7956.4	23.3
60°-70°	8780.4	25.7
70°-80°	4047.2	11.9
80°-90°	654.6	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°	34148.2	100.0
0°-180°	34148.2	100.0



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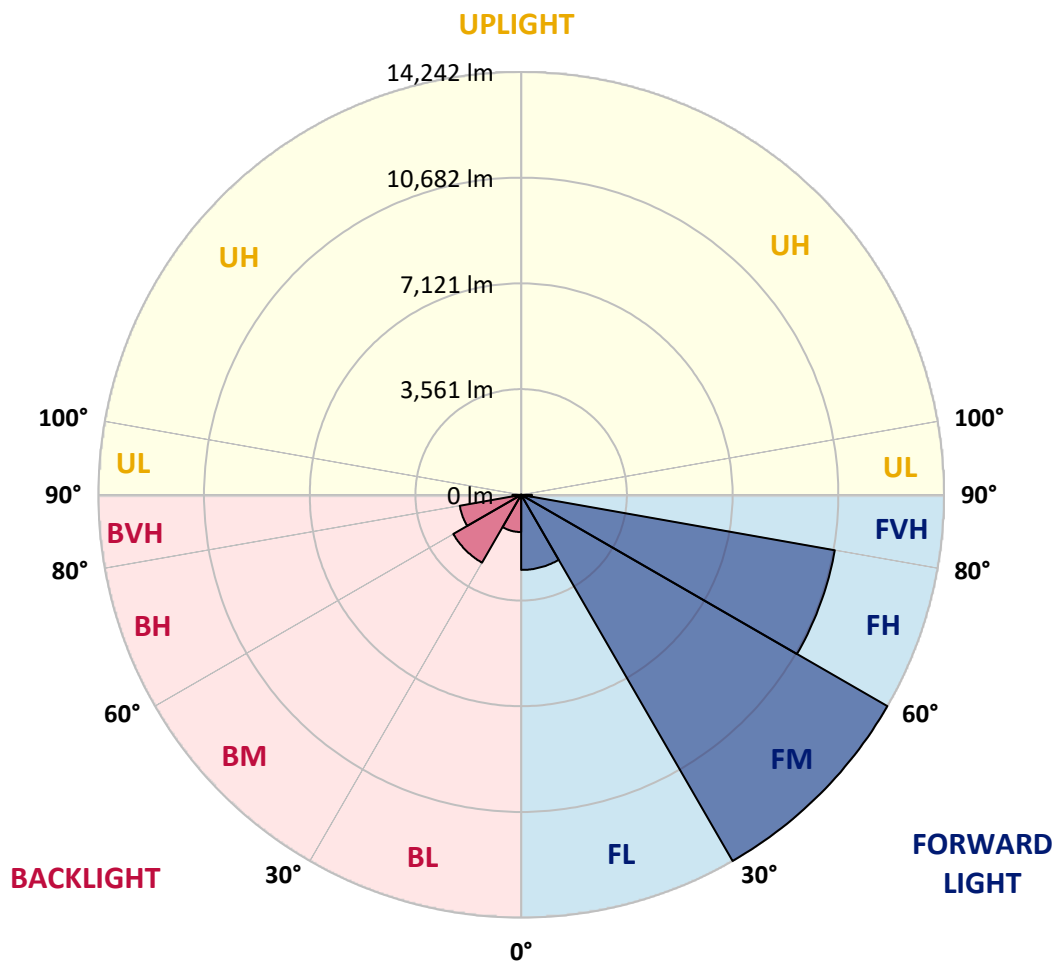
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2530.3	7.4			
FM (30°-60°)	14242.3	41.7			
FH (60°-80°)	10726.8	31.4			G4/12000
FVH (80°-90°)	359.9	1.1			G3/500
BL (0°-30°)	1254.7	3.7	B3/2500		
BM (30°-60°)	2638.5	7.7	B3/5000		
BH (60°-80°)	2100.8	6.2	B3/2500		G3/2500
BVH (80°-90°)	294.7	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°	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1
2.5°	5189.6	5159.5	5164.5	5156.1	5130.8	5087.1	5040.1	4954.4	4865.3	4818.1	4781.2
5°	5623.4	5615.0	5603.2	5576.3	5512.5	5421.6	5309.0	5157.7	4994.7	4908.9	4826.6
7.5°	5947.8	5942.8	5927.7	5910.9	5848.7	5739.4	5569.6	5354.4	5117.4	4999.7	4871.9
10°	5974.7	5983.1	5994.9	6040.3	6048.7	5989.9	5816.7	5556.2	5245.2	5093.9	4930.8
12.5°	5746.1	5764.6	5810.1	5926.1	6048.7	6121.0	6031.9	5768.0	5394.7	5211.5	5004.8
15°	5443.5	5453.7	5509.1	5668.8	5889.0	6112.6	6196.6	6001.7	5588.1	5362.8	5115.7
17.5°	5314.1	5319.1	5357.8	5463.7	5668.8	5988.3	6289.1	6255.5	5825.1	5551.1	5251.8
20°	5248.6	5260.3	5315.8	5420.0	5549.4	5828.5	6302.6	6529.5	6107.5	5786.5	5423.4
22.5°	5435.1	5430.0	5450.3	5502.4	5611.6	5779.8	6292.5	6811.9	6467.3	6089.1	5646.9
25°	5870.5	5889.0	5853.7	5794.9	5830.2	5947.8	6346.3	7117.9	6917.9	6477.4	5939.5
27.5°	6490.8	6472.4	6420.2	6282.5	6210.1	6260.6	6524.5	7447.4	7477.7	6988.5	6326.1
30°	7109.5	7094.4	7043.9	6875.9	6727.9	6685.9	6870.9	7825.7	8145.1	7602.1	6800.2
32.5°	7751.7	7734.9	7687.9	7519.7	7341.5	7244.0	7363.4	8262.8	8931.9	8335.1	7358.3
35°	8543.6	8511.6	8412.4	8178.7	8003.9	7928.3	7983.7	8812.5	9839.7	9202.6	8035.8
37.5°	9288.3	9337.1	9236.1	8913.4	8686.5	8659.6	8721.8	9483.3	10818.1	10172.5	8814.3
40°	10036.4	10044.8	9954.0	9690.1	9456.4	9412.7	9569.0	10296.9	11973.0	11332.6	9760.7
42.5°	10809.7	10826.5	10673.6	10429.8	10258.3	10266.7	10444.9	11250.2	13297.8	12699.3	10850.0
45°	11726.0	11751.1	11583.1	11263.6	11107.3	11421.7	11347.7	12319.4	14750.3	14252.7	12100.8
47.5°	12684.2	12722.8	12595.1	12295.9	12100.8	12532.9	12250.4	13504.6	16313.7	15918.6	13474.3
50°	13207.0	13262.5	13386.9	13365.1	13323.0	13250.7	13257.4	14775.5	17926.0	17653.7	14886.5
52.5°	12926.3	12924.6	13378.5	13929.9	14518.3	14562.0	14484.7	16115.4	19432.3	19349.9	16216.2
55°	11641.9	11729.3	12416.9	13484.4	15091.6	16095.2	16323.8	17650.3	20911.7	21007.5	17566.2
57.5°	9503.5	9575.7	10503.8	11991.5	14318.2	17006.4	18939.7	19881.2	22565.9	23013.1	19363.3
60°	6445.5	6532.9	7516.3	9303.4	12237.0	16498.7	21429.5	23862.1	24546.3	25563.3	21885.0
62.5°	3787.6	3866.7	4668.5	5868.9	8615.8	14140.0	22522.2	29525.8	27691.7	29411.5	25731.5
65°	2607.4	2661.2	3051.3	3653.2	4951.0	9523.7	21167.2	33436.2	32531.7	34179.2	30191.6
67.5°	2098.1	2091.3	2400.7	2810.9	3187.4	4910.6	16006.1	32994.1	36788.4	37475.9	32506.5
70°	1728.2	1721.5	1931.6	2271.3	2546.9	2765.4	8718.4	27843.0	35920.9	36200.0	30374.8
72.5°	1445.7	1452.5	1587.0	1839.2	2089.7	2082.9	3831.4	19587.0	28258.2	30188.2	24213.5
75°	1220.5	1223.9	1313.0	1491.2	1696.3	1677.7	2077.9	10611.4	16426.4	17769.6	13422.2
77.5°	1038.9	1042.3	1099.5	1198.7	1344.9	1338.2	1516.4	4584.5	6852.3	6768.3	4591.2
80°	926.3	926.3	953.2	971.7	1052.4	1022.1	1124.6	2202.3	2896.6	2674.7	1832.4
82.5°	726.3	729.6	894.4	887.6	828.8	790.1	790.1	1297.8	1534.8	1418.8	1072.6
85°	408.6	406.8	576.6	696.0	729.6	556.5	551.4	726.3	835.5	736.3	519.5
87.5°	174.8	178.2	267.3	309.3	413.6	346.3	341.3	374.9	425.3	368.2	240.4
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°	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1	4744.1
2.5°	4745.9	4702.1	4606.3	4487.0	4379.4	4308.8	4244.8	4152.4	4157.5	4093.5	4046.5
5°	4742.5	4651.7	4429.8	4165.9	3912.0	3728.8	3590.9	3466.5	3436.3	3377.4	3342.1
7.5°	4745.9	4598.0	4224.7	3802.7	3488.4	3256.4	3138.7	3073.1	3058.0	3037.9	3039.5
10°	4757.6	4549.2	3999.4	3463.1	3133.6	2980.7	2952.0	2972.3	2995.8	3002.5	3004.2
12.5°	4784.5	4505.5	3752.3	3160.5	2911.7	2864.7	2913.4	2982.3	3027.7	3049.6	3047.9
15°	4845.0	4471.8	3515.3	2923.5	2789.0	2814.2	2905.0	3002.5	3068.0	3098.3	3100.1
17.5°	4910.6	4423.0	3271.5	2741.9	2698.2	2762.1	2874.7	2989.1	3069.8	3103.4	3110.1
20°	4996.3	4362.6	3016.0	2605.8	2612.5	2684.7	2790.7	2905.0	2994.1	3022.7	3036.1
22.5°	5109.0	4297.0	2792.3	2494.8	2515.0	2570.5	2652.8	2752.0	2829.4	2842.8	2854.5
25°	5260.3	4226.4	2614.2	2393.9	2402.3	2434.3	2489.8	2548.6	2602.4	2587.2	2599.0
27.5°	5463.7	4165.9	2481.4	2301.4	2286.4	2293.0	2321.7	2340.1	2368.7	2326.7	2331.7
30°	5702.4	4100.3	2378.8	2220.8	2178.8	2167.0	2173.7	2183.8	2205.7	2148.5	2140.1
32.5°	5979.8	4021.3	2283.0	2150.1	2091.3	2067.8	2071.2	2098.1	2182.2	2146.8	2128.4
35°	6302.6	3932.2	2182.2	2072.8	2032.5	1998.8	1995.5	2079.6	2330.1	2308.2	2291.4
37.5°	6680.9	3843.1	2081.3	1985.4	1988.8	1951.8	1940.0	2035.9	2358.6	2272.9	2261.1
40°	7161.7	3796.0	1995.5	1893.0	1935.0	1929.9	1906.4	1955.2	2170.4	2014.0	1993.8
42.5°	7756.7	3802.7	1931.6	1793.7	1871.1	1924.9	1888.0	1889.6	1966.9	1849.3	1830.8
45°	8491.4	3881.8	1886.2	1714.8	1798.9	1919.9	1881.2	1854.3	1861.1	1798.9	1788.7
47.5°	9348.8	4044.8	1854.3	1649.2	1729.9	1901.4	1879.5	1844.2	1829.0	1795.5	1787.1
50°	10302.0	4281.9	1830.8	1587.0	1667.7	1871.1	1881.2	1834.2	1817.3	1803.9	1798.9
52.5°	11238.4	4552.5	1795.5	1533.2	1618.9	1834.2	1886.2	1824.0	1805.5	1795.5	1790.4
55°	12282.4	4890.4	1741.7	1487.8	1578.6	1787.1	1886.2	1808.9	1788.7	1790.4	1788.7
57.5°	13692.9	5436.8	1677.7	1449.1	1529.8	1729.9	1854.3	1792.1	1766.8	1768.6	1770.2
60°	15896.9	6400.1	1600.4	1410.4	1469.3	1662.6	1810.6	1755.1	1729.9	1736.7	1738.3
62.5°	19138.1	7813.9	1499.5	1353.4	1405.4	1590.4	1750.1	1708.0	1682.9	1699.6	1699.6
65°	22507.1	9061.3	1375.2	1281.0	1338.2	1511.3	1674.4	1649.2	1623.9	1662.6	1661.0
67.5°	23413.2	8782.2	1250.8	1202.0	1270.9	1423.9	1583.6	1570.2	1556.7	1623.9	1620.7
70°	20799.0	7050.7	1136.5	1121.4	1197.0	1329.7	1486.1	1486.1	1477.8	1528.2	1516.4
72.5°	15846.4	4999.7	1027.1	1035.5	1112.9	1227.2	1380.2	1392.0	1378.5	1403.8	1393.7
75°	8483.0	2861.3	917.9	941.4	1008.7	1123.0	1262.5	1274.3	1265.9	1264.3	1269.3
77.5°	2819.3	1398.7	803.6	840.6	899.4	1015.4	1139.8	1158.3	1138.1	1134.8	1133.1
80°	1255.8	879.2	677.5	726.3	778.4	892.7	1010.4	1025.5	1003.6	1033.9	995.2
82.5°	806.9	578.3	543.0	596.8	647.2	770.0	881.0	884.2	864.1	1003.6	855.7
85°	391.7	358.0	408.6	457.3	500.9	605.2	729.6	731.3	680.9	620.3	598.5
87.5°	195.0	208.5	272.3	316.1	337.9	415.2	531.2	521.2	499.3	453.9	418.6
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)