

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: P192165

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192165
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-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33382 lumens
Efficiency: N/A
Efficacy: 113.2 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

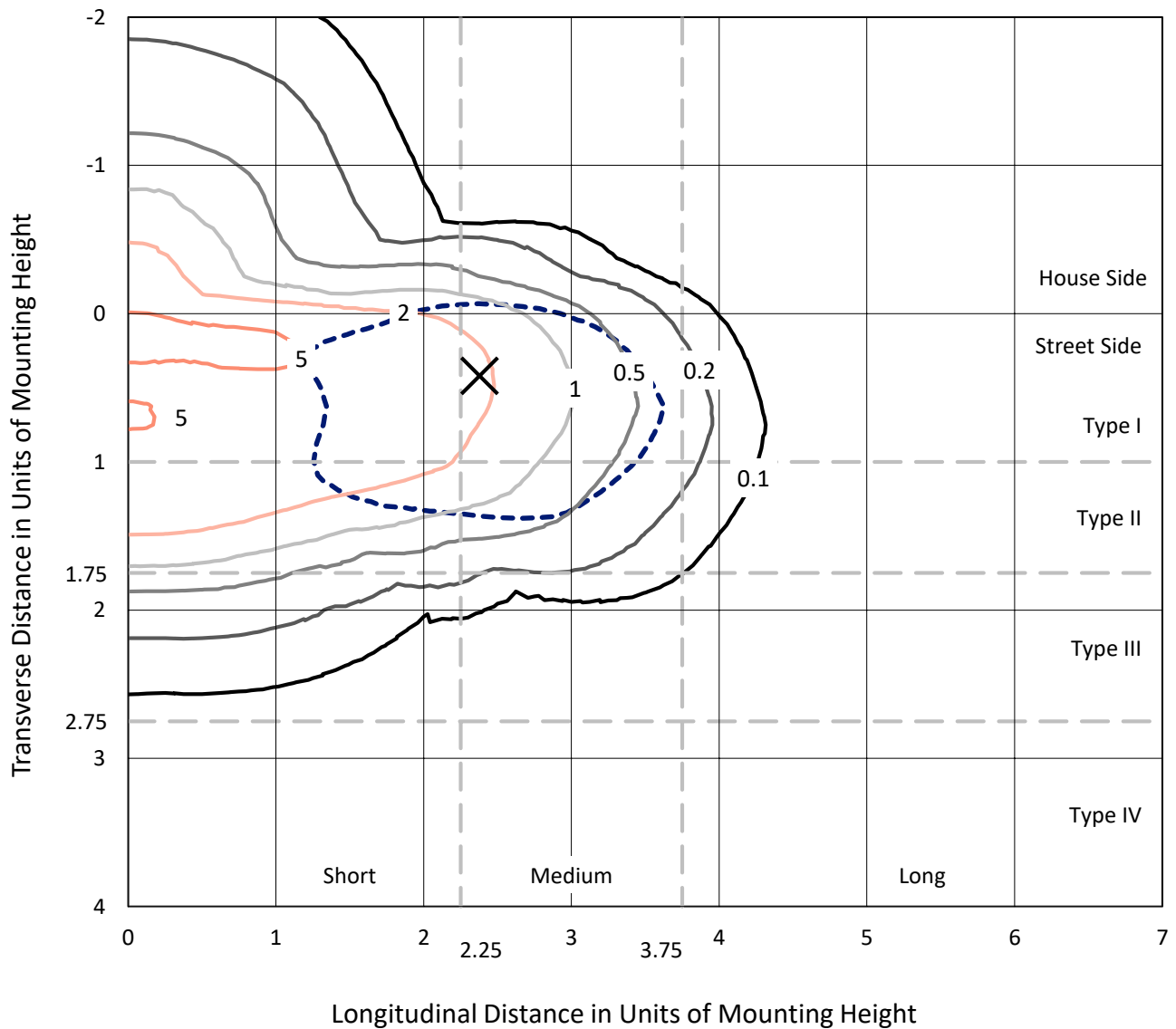
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

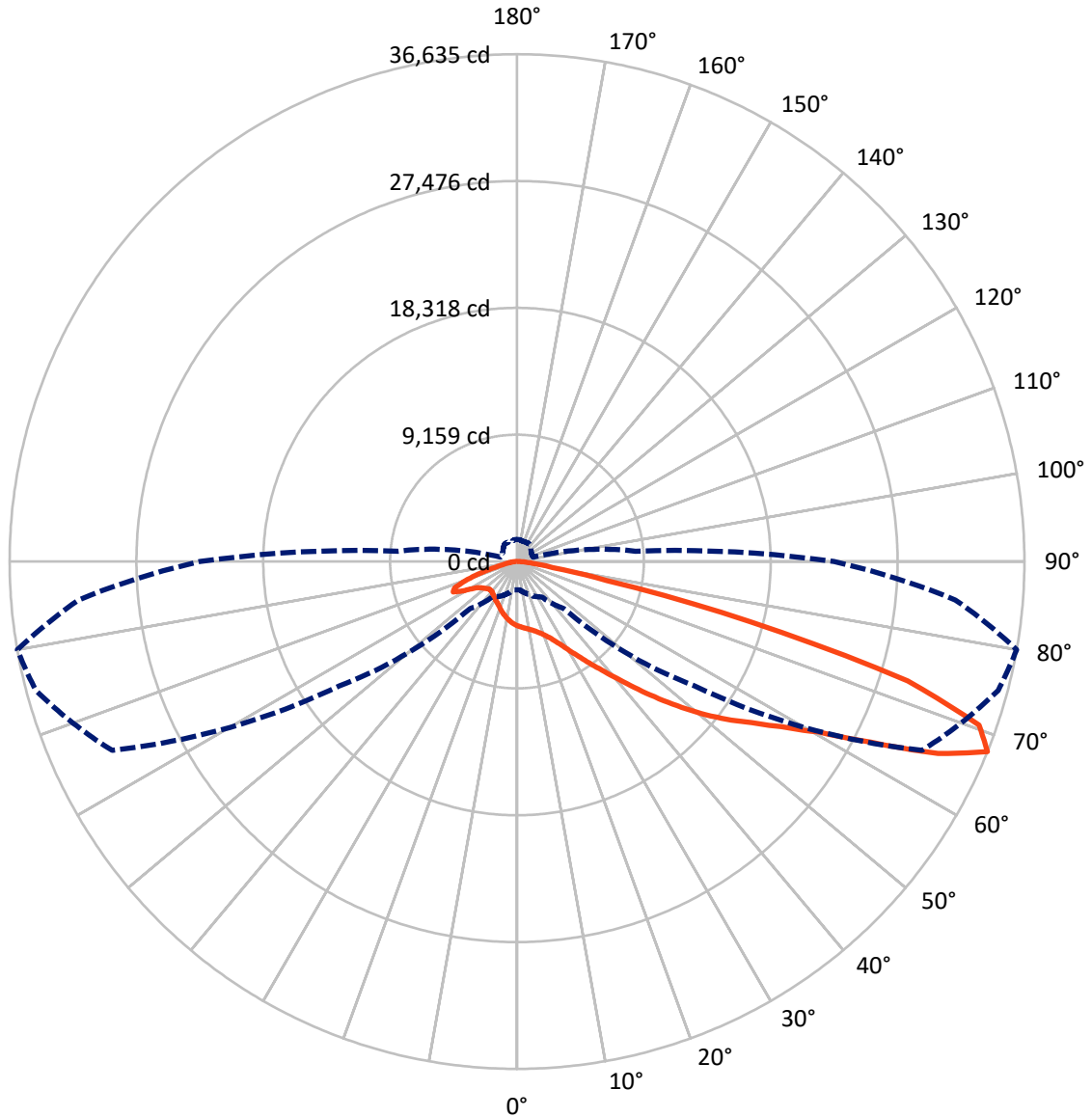
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	6147.7	0.0	6147.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	27234.3	0.0	27234.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	33382.0	0.0	33382.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.8	1.3
10°-20°	1232.4	3.7
20°-30°	2039.9	6.1
30°-40°	3336.7	10.0
40°-50°	5387.5	16.1
50°-60°	7777.9	23.3
60°-70°	8583.4	25.7
70°-80°	3956.4	11.9
80°-90°	639.9	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°	33382.0	100.0
0°-180°	33382.0	100.0



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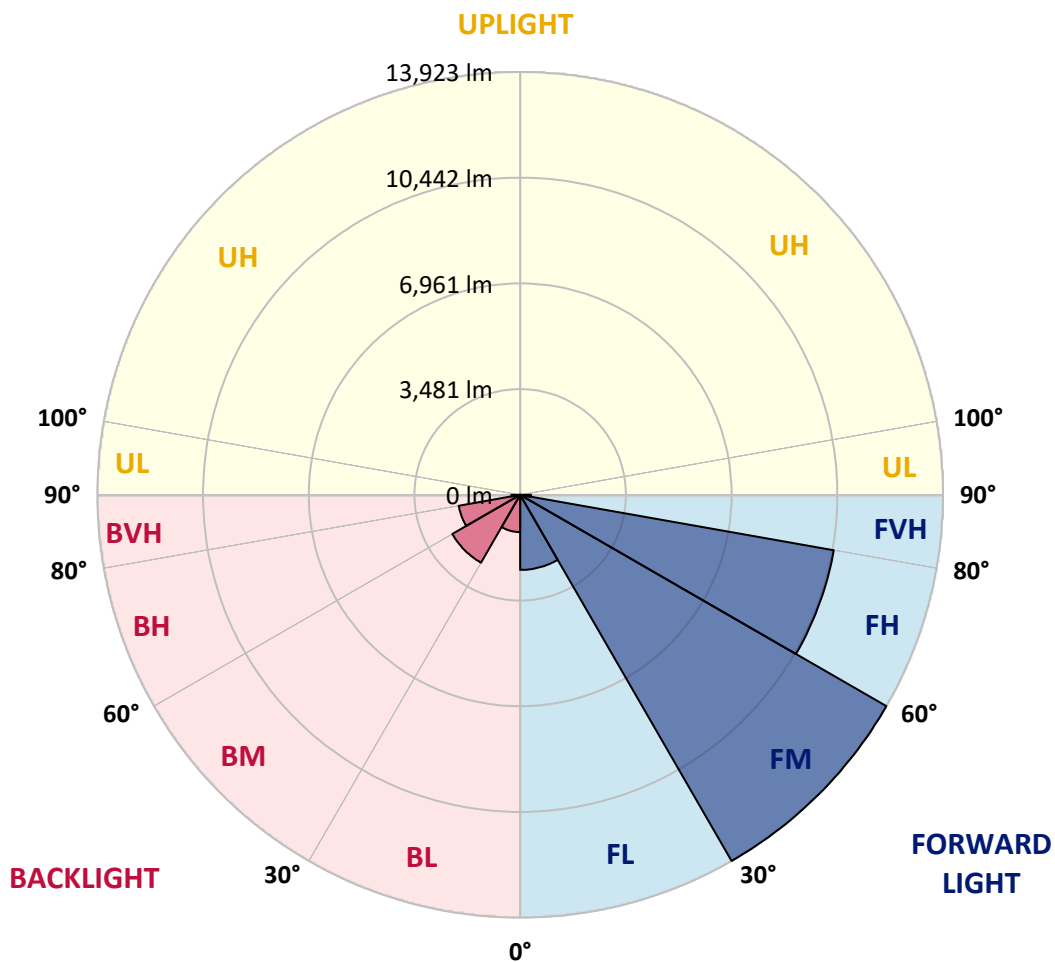
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.5	7.4			
FM (30°-60°)	13922.8	41.7			
FH (60°-80°)	10486.2	31.4			G4/12000
FVH (80°-90°)	351.8	1.1			G3/500
BL (0°-30°)	1226.5	3.7	B3/2500		
BM (30°-60°)	2579.3	7.7	B3/5000		
BH (60°-80°)	2053.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	288.1	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°	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7
2.5°	5073.2	5043.7	5048.6	5040.4	5015.7	4973.0	4927.0	4843.2	4756.1	4710.0	4673.9
5°	5497.2	5489.0	5477.5	5451.2	5388.8	5300.0	5189.9	5042.0	4882.6	4798.8	4718.3
7.5°	5814.4	5809.5	5794.7	5778.3	5717.5	5610.6	5444.6	5234.3	5002.6	4887.5	4762.6
10°	5840.7	5848.9	5860.4	5904.8	5913.0	5855.5	5686.2	5431.5	5127.5	4979.6	4820.2
12.5°	5617.2	5635.3	5679.7	5793.1	5913.0	5983.7	5896.6	5638.6	5273.7	5094.6	4892.5
15°	5321.4	5331.3	5385.5	5541.6	5756.9	5975.5	6057.6	5867.0	5462.7	5242.5	5000.9
17.5°	5194.9	5199.8	5237.6	5341.1	5541.6	5853.9	6148.0	6115.2	5694.4	5426.6	5134.0
20°	5130.8	5142.3	5196.5	5298.4	5424.9	5697.7	6161.2	6383.0	5970.5	5656.7	5301.7
22.5°	5313.2	5308.2	5328.0	5378.9	5485.7	5650.1	6151.3	6659.1	6322.2	5952.5	5520.2
25°	5738.8	5756.9	5722.4	5664.9	5699.4	5814.4	6203.9	6958.2	6762.7	6332.1	5806.2
27.5°	6345.2	6327.2	6276.2	6141.5	6070.8	6120.1	6378.1	7280.3	7309.9	6831.7	6184.2
30°	6950.0	6935.2	6885.9	6721.6	6577.0	6535.9	6716.7	7650.1	7962.4	7431.5	6647.6
32.5°	7577.8	7561.4	7515.4	7351.0	7176.8	7081.5	7198.2	8077.4	8731.5	8148.1	7193.2
35°	8351.9	8320.6	8223.7	7995.2	7824.3	7750.4	7804.6	8614.8	9618.9	8996.1	7855.5
37.5°	9079.9	9127.6	9028.9	8713.4	8491.6	8465.3	8526.1	9270.5	10575.4	9944.3	8616.5
40°	9811.2	9819.4	9730.7	9472.7	9244.2	9201.5	9354.3	10065.9	11704.4	11078.3	9541.7
42.5°	10567.2	10583.6	10434.1	10195.8	10028.1	10036.4	10210.6	10997.8	12999.5	12414.4	10606.6
45°	11462.9	11487.5	11323.2	11010.9	10858.1	11165.4	11093.1	12043.0	14419.4	13932.9	11829.3
47.5°	12399.6	12437.4	12312.5	12020.0	11829.3	12251.7	11975.6	13201.6	15947.7	15561.5	13172.0
50°	12910.7	12964.9	13086.6	13065.2	13024.1	12953.4	12960.0	14444.0	17523.8	17257.6	14552.5
52.5°	12636.3	12634.6	13078.3	13617.4	14192.6	14235.3	14159.7	15753.8	18996.3	18915.8	15852.4
55°	11380.7	11466.1	12138.3	13181.9	14753.0	15734.1	15957.6	17254.3	20442.5	20536.2	17172.1
57.5°	9290.3	9360.9	10268.1	11722.5	13997.0	16624.8	18514.8	19435.1	22059.6	22496.8	18928.9
60°	6300.9	6386.3	7347.7	9094.7	11962.5	16128.5	20948.7	23326.7	23995.6	24989.8	21394.0
62.5°	3702.6	3779.9	4563.8	5737.2	8422.5	13822.8	22016.9	28863.4	27070.4	28751.6	25154.2
65°	2548.9	2601.5	2982.8	3571.2	4839.9	9310.0	20692.3	32686.0	31801.8	33412.4	29514.2
67.5°	2051.0	2044.4	2346.8	2747.8	3115.9	4800.4	15647.0	32253.8	35963.0	36635.1	31777.2
70°	1689.4	1682.9	1888.3	2220.3	2489.8	2703.4	8522.8	27218.3	35115.0	35387.8	29693.3
72.5°	1413.3	1419.9	1551.4	1797.9	2042.8	2036.2	3745.4	19147.5	27624.2	29510.9	23670.2
75°	1193.1	1196.4	1283.5	1457.7	1658.2	1640.1	2031.3	10373.3	16057.9	17370.9	13121.1
77.5°	1015.6	1018.9	1074.8	1171.8	1314.7	1308.2	1482.4	4481.6	6698.6	6616.4	4488.2
80°	905.5	905.5	931.8	949.9	1028.8	999.2	1099.4	2152.9	2831.6	2614.7	1791.3
82.5°	710.0	713.2	874.3	867.7	810.2	772.4	772.4	1268.7	1500.4	1387.0	1048.5
85°	399.4	397.7	563.7	680.4	713.2	544.0	539.0	710.0	816.8	719.8	507.8
87.5°	170.9	174.2	261.3	302.4	404.3	338.5	333.6	366.5	415.8	359.9	235.0
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°	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7
2.5°	4639.4	4596.6	4503.0	4386.3	4281.1	4212.1	4149.6	4059.2	4064.2	4001.7	3955.7
5°	4636.1	4547.3	4330.4	4072.4	3824.2	3645.1	3510.3	3388.7	3359.2	3301.6	3267.1
7.5°	4639.4	4494.8	4129.9	3717.4	3410.1	3183.3	3068.3	3004.2	2989.4	2969.7	2971.3
10°	4650.9	4447.1	3909.7	3385.4	3063.3	2913.8	2885.8	2905.6	2928.6	2935.1	2936.8
12.5°	4677.2	4404.4	3668.1	3089.6	2846.4	2800.4	2848.0	2915.4	2959.8	2981.2	2979.5
15°	4736.3	4371.5	3436.4	2857.9	2726.4	2751.1	2839.8	2935.1	2999.2	3028.8	3030.5
17.5°	4800.4	4323.8	3198.1	2680.4	2637.7	2700.1	2810.2	2922.0	3000.9	3033.8	3040.3
20°	4884.2	4264.7	2948.3	2547.3	2553.9	2624.5	2728.1	2839.8	2926.9	2954.9	2968.0
22.5°	4994.4	4200.6	2729.7	2438.8	2458.6	2512.8	2593.3	2690.3	2765.9	2779.0	2790.5
25°	5142.3	4131.6	2555.5	2340.2	2348.4	2379.7	2433.9	2491.4	2544.0	2529.2	2540.7
27.5°	5341.1	4072.4	2425.7	2249.8	2235.1	2241.6	2269.6	2287.6	2315.6	2274.5	2279.4
30°	5574.5	4008.3	2325.4	2171.0	2129.9	2118.4	2124.9	2134.8	2156.2	2100.3	2092.1
32.5°	5845.6	3931.1	2231.8	2101.9	2044.4	2021.4	2024.7	2051.0	2133.2	2098.6	2080.6
35°	6161.2	3844.0	2133.2	2026.3	1986.9	1954.0	1950.7	2032.9	2277.8	2256.4	2240.0
37.5°	6531.0	3756.9	2034.6	1940.9	1944.2	1908.0	1896.5	1990.2	2305.7	2221.9	2210.4
40°	7001.0	3710.8	1950.7	1850.5	1891.6	1886.6	1863.6	1911.3	2121.7	1968.8	1949.1
42.5°	7582.7	3717.4	1888.3	1753.5	1829.1	1881.7	1845.6	1847.2	1922.8	1807.8	1789.7
45°	8300.9	3794.7	1843.9	1676.3	1758.5	1876.8	1839.0	1812.7	1819.3	1758.5	1748.6
47.5°	9139.1	3954.1	1812.7	1612.2	1691.1	1858.7	1837.3	1802.8	1788.0	1755.2	1747.0
50°	10070.9	4185.8	1789.7	1551.4	1630.3	1829.1	1839.0	1793.0	1776.5	1763.4	1758.5
52.5°	10986.3	4450.4	1755.2	1498.8	1582.6	1793.0	1843.9	1783.1	1765.0	1755.2	1750.2
55°	12006.8	4780.7	1702.6	1454.4	1543.2	1747.0	1843.9	1768.3	1748.6	1750.2	1748.6
57.5°	13385.7	5314.8	1640.1	1416.6	1495.5	1691.1	1812.7	1751.9	1727.2	1728.9	1730.5
60°	15540.2	6256.5	1564.5	1378.8	1436.3	1625.3	1770.0	1715.7	1691.1	1697.7	1699.3
62.5°	18708.7	7638.6	1465.9	1323.0	1373.9	1554.7	1710.8	1669.7	1645.1	1661.5	1661.5
65°	22002.1	8858.0	1344.3	1252.3	1308.2	1477.4	1636.8	1612.2	1587.5	1625.3	1623.7
67.5°	22887.9	8585.2	1222.7	1175.0	1242.4	1392.0	1548.1	1535.0	1521.8	1587.5	1584.3
70°	20332.4	6892.5	1111.0	1096.2	1170.1	1299.9	1452.8	1452.8	1444.6	1493.9	1482.4
72.5°	15490.9	4887.5	1004.1	1012.3	1087.9	1199.7	1349.2	1360.8	1347.6	1372.3	1362.4
75°	8292.7	2797.1	897.3	920.3	986.1	1097.8	1234.2	1245.7	1237.5	1235.9	1240.8
77.5°	2756.0	1367.3	785.6	821.7	879.2	992.6	1114.2	1132.3	1112.6	1109.3	1107.7
80°	1227.6	859.5	662.3	710.0	760.9	872.7	987.7	1002.5	981.1	1010.7	972.9
82.5°	788.8	565.3	530.8	583.4	632.7	752.7	861.2	864.4	844.7	981.1	836.5
85°	382.9	350.0	399.4	447.0	489.7	591.6	713.2	714.9	665.6	606.4	585.1
87.5°	190.6	203.8	266.2	309.0	330.3	405.9	519.3	509.5	488.1	443.7	409.2
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)