

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: P193527

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193527
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-09-LED-E1-AFL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48869 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 575
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

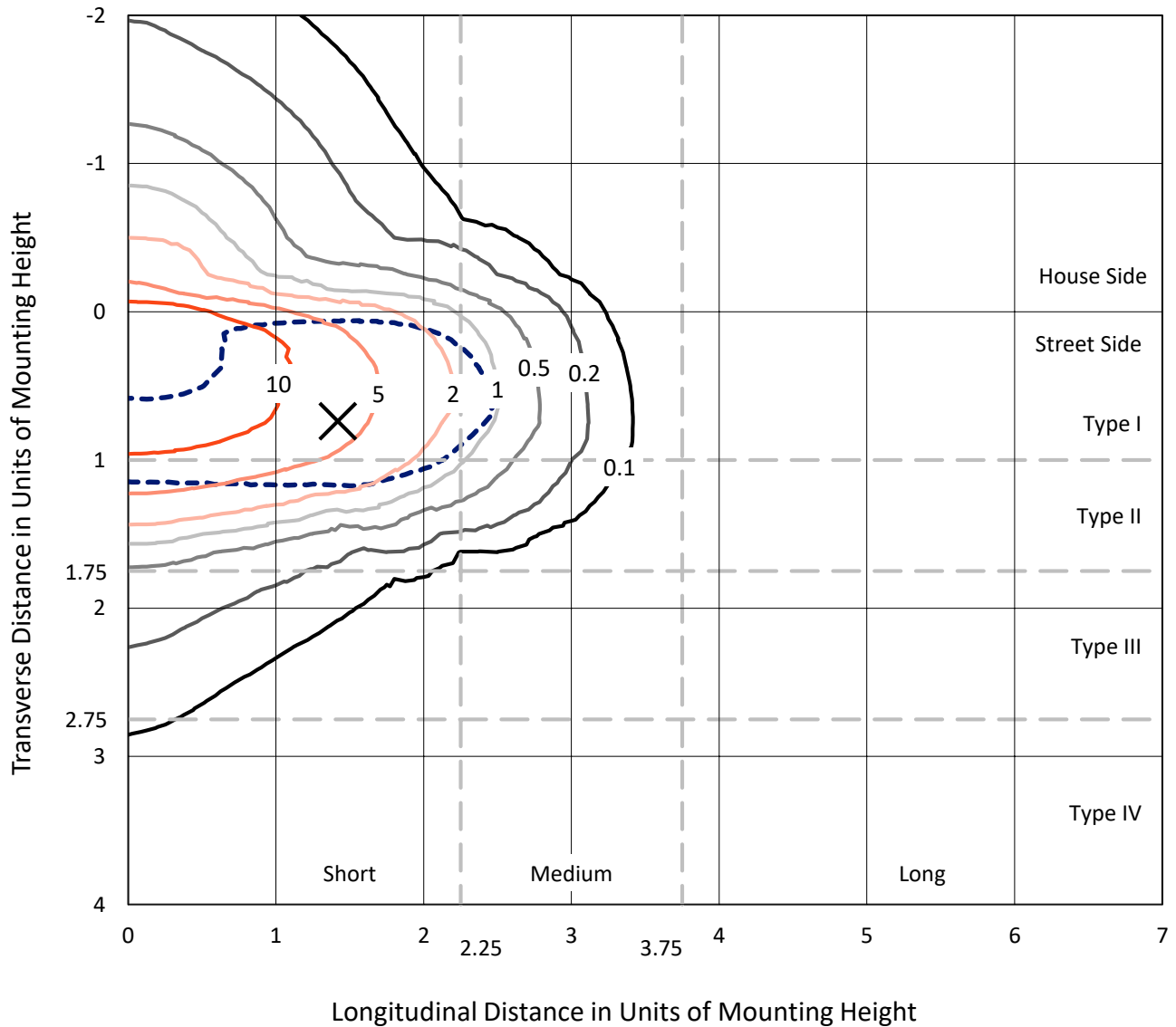


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

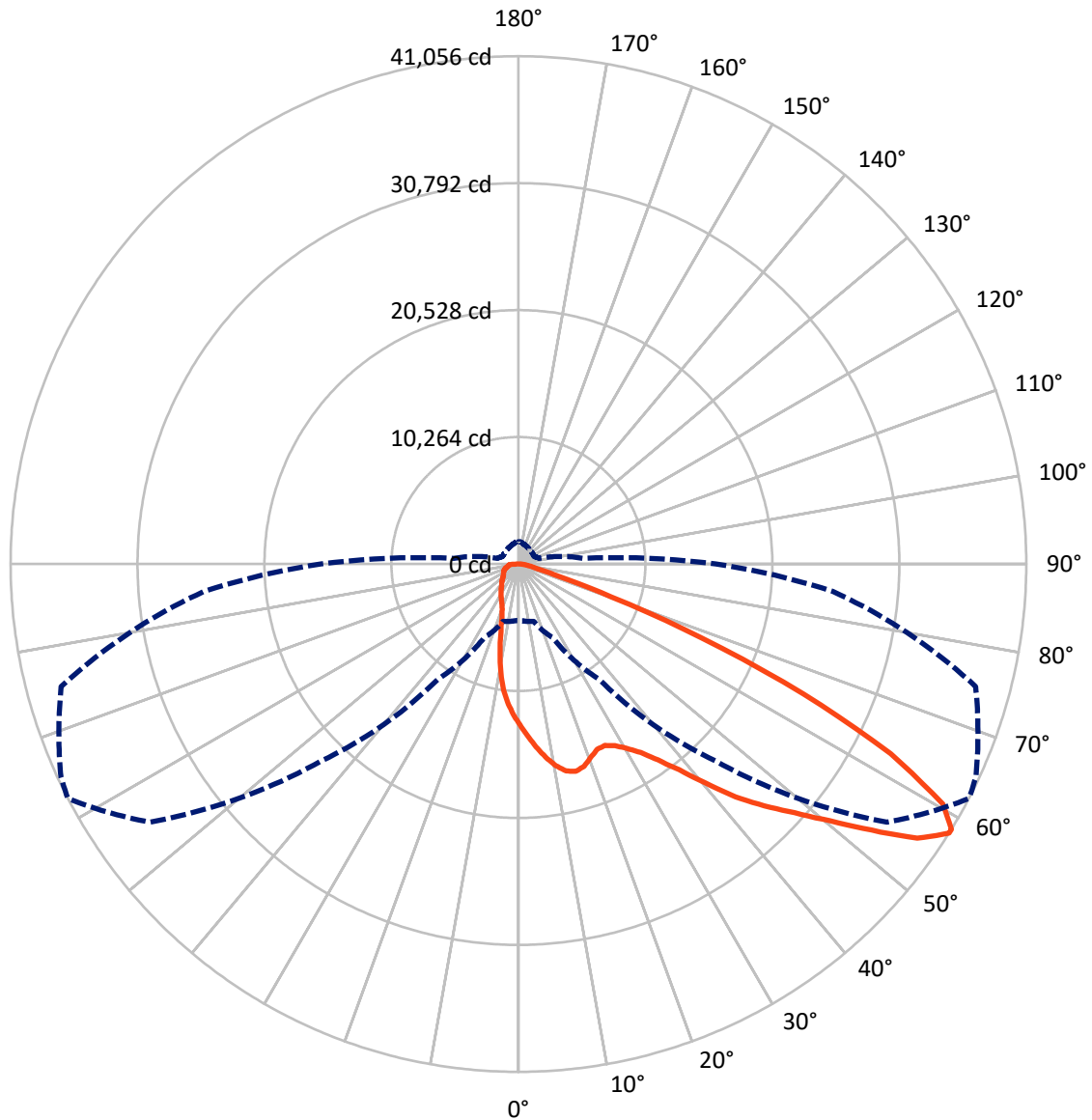


Based on 30 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	7452.7	0.0	7452.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	41416.3	0.0	41416.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	48869.0	0.0	48869.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.0	2.4
10°-20°	2967.6	6.1
20°-30°	4797.2	9.8
30°-40°	7615.6	15.6
40°-50°	11143.2	22.8
50°-60°	11654.8	23.8
60°-70°	6885.7	14.1
70°-80°	1939.7	4.0
80°-90°	704.2	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°	48869.0	100.0
0°-180°	48869.0	100.0



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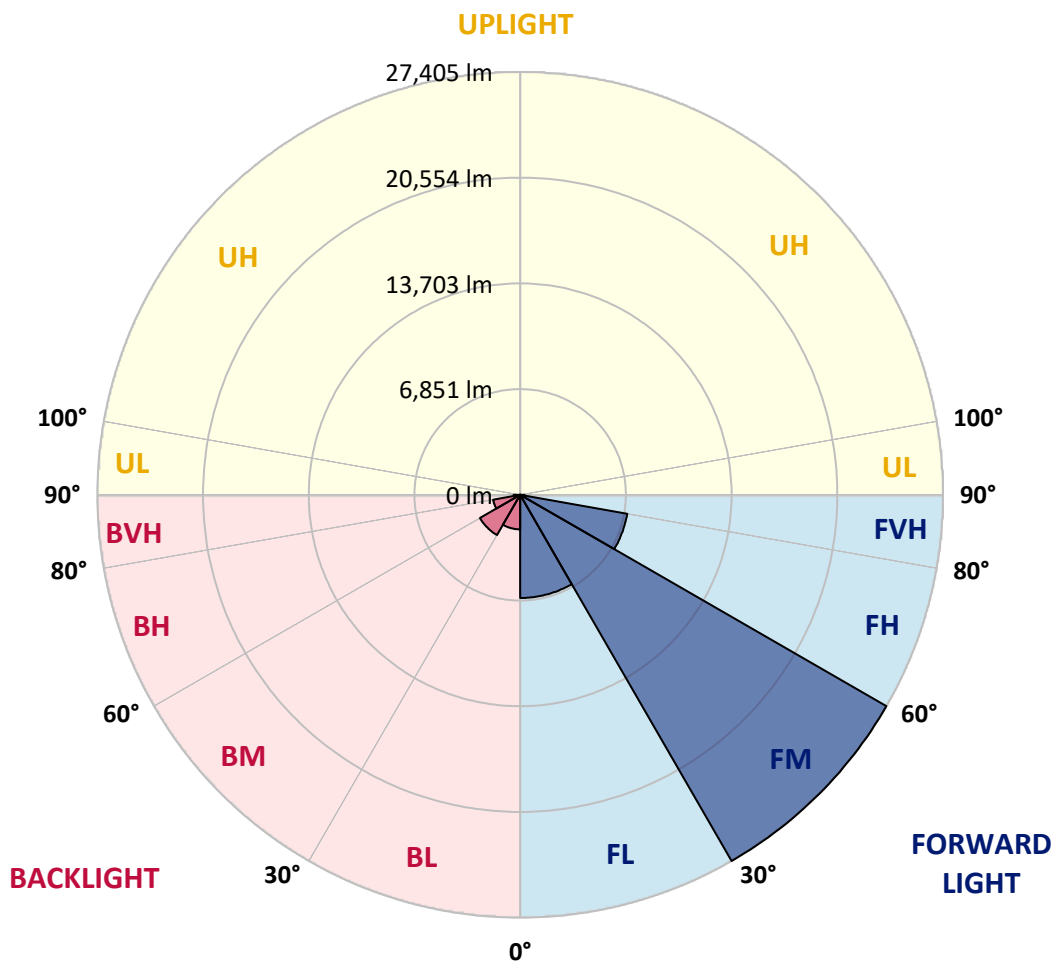
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6685.9	13.7			
FM (30°-60°)	27405.5	56.1			
FH (60°-80°)	7047.1	14.4			G3/7500
FVH (80°-90°)	277.8	0.6			G3/500
BL (0°-30°)	2239.9	4.6	B3/2500		
BM (30°-60°)	3008.1	6.2	B3/5000		
BH (60°-80°)	1778.3	3.6	B3/2500		G3/2500
BVH (80°-90°)	426.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1
2.5°	14833.5	14713.9	14637.9	14571.2	14483.7	14297.3	14046.5	13887.7	13807.2	13533.3	13208.9
5°	16287.9	16182.0	16103.8	16014.0	15857.6	15565.3	15160.3	14838.1	14679.3	14131.7	13482.7
7.5°	15947.3	15991.0	16126.8	16363.8	16566.3	16527.2	16165.9	15756.3	15546.9	14785.2	13800.3
10°	13894.6	13970.6	14205.3	14759.9	15657.3	16577.8	16858.6	16575.5	16363.8	15431.8	14127.1
12.5°	13482.7	13480.4	13498.8	13646.1	14180.0	15475.6	16881.6	17166.9	17040.4	16048.6	14460.7
15°	13650.7	13655.3	13641.5	13703.6	13869.3	14382.5	16177.4	17394.8	17484.5	16669.9	14805.9
17.5°	14092.5	14081.0	14028.1	14028.1	14087.9	14288.1	15349.0	17183.0	17597.3	17219.9	15109.7
20°	14833.5	14780.6	14640.2	14511.4	14446.9	14555.1	15008.4	16695.2	17401.7	17700.8	15360.5
22.5°	15731.0	15689.6	15461.7	15185.6	14962.4	14960.1	15183.3	16269.5	17063.4	18154.1	15572.2
25°	16890.8	16824.1	16485.8	16043.9	15652.7	15503.2	15565.3	16248.8	16879.3	18646.6	15760.9
27.5°	18253.1	18131.1	17730.7	17093.3	16518.0	16216.5	16126.8	16623.9	17047.3	19256.4	16023.2
30°	19905.4	19765.0	19251.8	18421.1	17608.8	17114.0	16923.0	17288.9	17604.2	19999.7	16444.4
32.5°	21785.4	21582.9	20989.2	20073.3	19005.6	18250.8	17940.1	18168.0	18418.8	20894.9	16971.3
35°	24383.5	24141.9	23283.5	22020.2	20814.3	19776.5	19279.4	19445.1	19689.0	22229.6	17733.0
37.5°	26155.4	26047.3	25476.6	24289.1	22977.5	21783.1	21014.5	21111.2	21249.3	23897.9	18708.7
40°	26139.3	26183.0	26194.5	26206.0	25313.2	24169.5	23343.3	23242.1	23214.5	25729.7	19817.9
42.5°	24829.9	25009.4	25589.3	26765.2	27308.3	26783.6	26026.5	25734.3	25589.3	27888.2	20993.8
45°	22825.6	22922.2	24008.4	26305.0	28330.0	29372.5	28799.5	27879.0	27616.7	29871.8	21969.5
47.5°	21792.3	21898.2	22581.7	25085.4	28318.5	31464.3	31795.6	30042.1	29572.7	31597.7	22811.8
50°	19332.4	19553.3	20413.9	22963.6	27285.3	32426.2	34927.6	32619.5	31648.4	33277.6	23656.3
52.5°	14815.1	15155.7	16119.9	19475.0	24664.2	31949.8	37433.6	35744.5	34373.0	35017.3	24381.2
55°	9345.2	9598.3	10408.3	13754.3	19730.5	29471.4	38384.0	39125.0	37905.3	36665.0	25009.4
57.5°	5081.0	5193.8	5497.6	7594.0	12833.8	23992.3	36998.7	41048.8	40542.5	38064.1	25483.5
58°	4547.2	4623.1	4811.8	6581.4	11381.7	22494.2	36384.2	41055.7	40802.5	38268.9	25520.3
60°	3373.6	3334.4	3166.4	3755.6	6335.2	15540.0	32670.1	39412.6	40155.9	38519.7	25340.8
62.5°	2963.9	2869.6	2526.7	2487.6	3081.3	7159.0	24997.9	33760.9	35516.7	37088.4	24250.0
65°	2784.4	2683.2	2241.4	2098.7	2223.0	3028.4	14725.4	25320.1	27522.3	32748.3	21461.0
67.5°	2651.0	2519.8	2059.6	1864.0	1873.2	2002.0	5902.6	15947.3	18425.7	24864.4	16692.9
70°	2522.1	2379.4	1905.4	1679.9	1626.9	1583.2	2347.2	7982.9	10231.1	15705.7	10643.0
72.5°	2384.0	2243.7	1769.6	1534.9	1431.3	1286.4	1532.6	3265.4	4561.0	7430.6	4827.9
75°	2183.8	2057.3	1633.9	1406.0	1258.8	1065.5	1157.5	1705.2	2045.8	2959.3	2326.5
77.5°	1937.6	1834.1	1482.0	1300.2	1116.1	865.3	890.6	1182.8	1311.7	1693.7	1383.0
80°	1392.2	1429.0	1318.6	1169.0	994.1	701.9	683.5	862.9	932.0	1088.5	899.8
82.5°	978.0	998.7	1090.8	955.0	821.5	552.3	504.0	607.5	648.9	715.7	485.6
85°	674.3	651.2	747.9	665.0	593.7	368.2	345.2	411.9	437.2	444.1	250.8
87.5°	405.0	405.0	432.6	356.7	319.9	191.0	186.4	234.7	250.8	239.3	138.1
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°	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1	12981.1
2.5°	13015.6	12852.2	12504.7	12226.3	11874.2	11508.3	11303.5	11084.9	10935.3	10827.1	10999.7
5°	13114.5	12780.9	12062.9	11381.7	10629.2	9846.8	9253.1	8700.8	8316.5	8077.2	8302.7
7.5°	13271.0	12757.8	11614.1	10449.7	9098.9	7796.5	6632.1	5902.6	5476.8	5267.4	5398.6
10°	13450.5	12721.0	11087.2	9186.4	7253.4	5612.6	4742.8	4448.2	4351.6	4312.4	4330.9
12.5°	13600.1	12642.8	10440.5	7658.4	5446.9	4432.1	4181.3	4174.4	4195.1	4199.7	4206.6
15°	13705.9	12527.7	9480.9	6066.0	4356.2	4038.6	4024.8	4066.2	4105.3	4121.4	4130.6
17.5°	13777.3	12290.7	8397.1	4795.7	3902.8	3847.6	3879.8	3932.7	3974.2	3985.7	3994.9
20°	13770.4	11943.2	7106.1	3999.5	3656.6	3656.6	3711.8	3753.3	3755.6	3741.7	3748.7
22.5°	13699.0	11466.9	5854.2	3576.1	3438.0	3477.1	3532.3	3493.2	3332.1	3226.3	3233.2
25°	13579.4	10898.5	4781.9	3306.8	3235.5	3304.5	3288.4	2993.9	2763.7	2660.2	2660.2
27.5°	13473.5	10226.5	3958.1	3072.1	3033.0	3118.1	2832.8	2565.8	2469.2	2420.9	2404.8
30°	13397.6	9501.6	3408.1	2846.6	2842.0	2779.8	2457.7	2384.0	2367.9	2328.8	2315.0
32.5°	13416.0	8767.6	3056.0	2648.7	2664.8	2379.4	2278.2	2294.3	2280.5	2239.1	2220.7
35°	13567.9	8070.3	2825.9	2469.2	2420.9	2149.3	2172.3	2202.2	2197.6	2140.1	2121.7
37.5°	13839.4	7409.9	2674.0	2319.6	2112.5	2034.3	2071.1	2117.1	2105.6	2066.5	2052.7
40°	14124.7	6788.5	2549.7	2202.2	1930.7	1956.0	1988.2	2013.5	2025.1	2036.6	2027.4
42.5°	14403.2	6139.6	2397.8	2082.6	1854.8	1882.4	1896.2	1921.5	1983.6	2027.4	2025.1
45°	14568.9	5529.8	2241.4	1912.3	1794.9	1811.0	1801.8	1852.5	1928.4	1999.7	2002.0
47.5°	14753.0	5055.7	2117.1	1755.8	1737.4	1748.9	1721.3	1771.9	1841.0	1928.4	1937.6
50°	14976.2	4772.7	2018.2	1631.5	1659.2	1659.2	1652.3	1698.3	1794.9	1896.2	1914.6
52.5°	15229.3	4717.5	1935.3	1541.8	1580.9	1578.6	1585.5	1654.6	1760.4	1859.4	1875.5
55°	15537.7	4867.0	1845.6	1475.1	1505.0	1514.2	1537.2	1615.4	1705.2	1817.9	1824.8
57.5°	15896.7	5170.8	1774.2	1422.1	1435.9	1465.9	1502.7	1574.0	1670.7	1794.9	1801.8
58°	15956.5	5235.2	1762.7	1417.5	1422.1	1456.7	1498.1	1567.1	1663.8	1799.5	1806.4
60°	15958.8	5449.2	1737.4	1396.8	1369.2	1426.7	1472.8	1541.8	1652.3	1815.6	1831.8
62.5°	15392.7	5446.9	1719.0	1366.9	1314.0	1385.3	1438.2	1518.8	1640.8	1854.8	1887.0
65°	13554.1	4949.9	1631.5	1320.9	1270.3	1348.5	1408.3	1502.7	1673.0	2025.1	2045.8
67.5°	10601.6	4057.0	1468.2	1256.5	1212.7	1311.7	1389.9	1500.4	1707.5	2064.2	2078.0
70°	7009.4	3035.3	1288.7	1182.8	1152.9	1268.0	1399.1	1578.6	1668.4	1981.3	1944.5
72.5°	3638.2	2130.9	1143.7	1090.8	1083.9	1228.8	1532.6	1569.4	1629.2	1864.0	1817.9
75°	1910.0	1479.7	1017.1	989.5	1001.0	1219.6	1808.7	1528.0	1578.6	1783.4	1870.9
77.5°	1169.0	1194.3	909.0	897.5	920.5	1192.0	1806.4	1475.1	1505.0	1640.8	1737.4
80°	782.4	968.8	826.1	828.4	844.5	1090.8	1622.3	1392.2	1415.2	1551.0	1650.0
82.5°	494.8	573.0	750.2	789.3	768.6	899.8	1378.4	1268.0	1300.2	1774.2	1875.5
85°	250.8	359.0	651.2	759.4	692.7	630.5	1118.4	1111.5	1127.6	1279.5	1337.0
87.5°	115.1	197.9	508.6	662.7	522.4	393.5	812.3	823.8	888.3	909.0	909.0
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)