

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: P192305

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47223 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

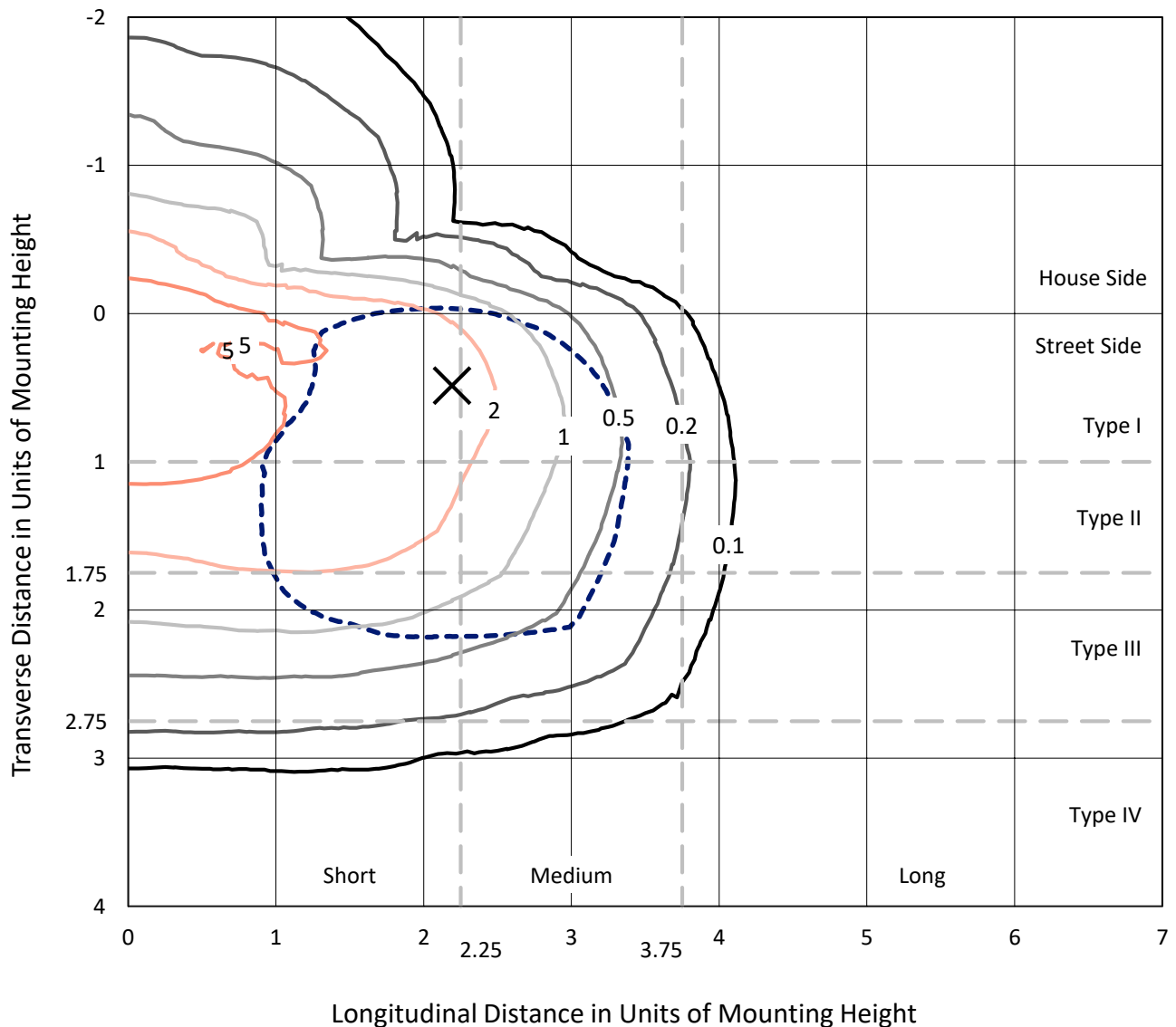


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Iso-Footcandle Lines of Horizontal Illumination

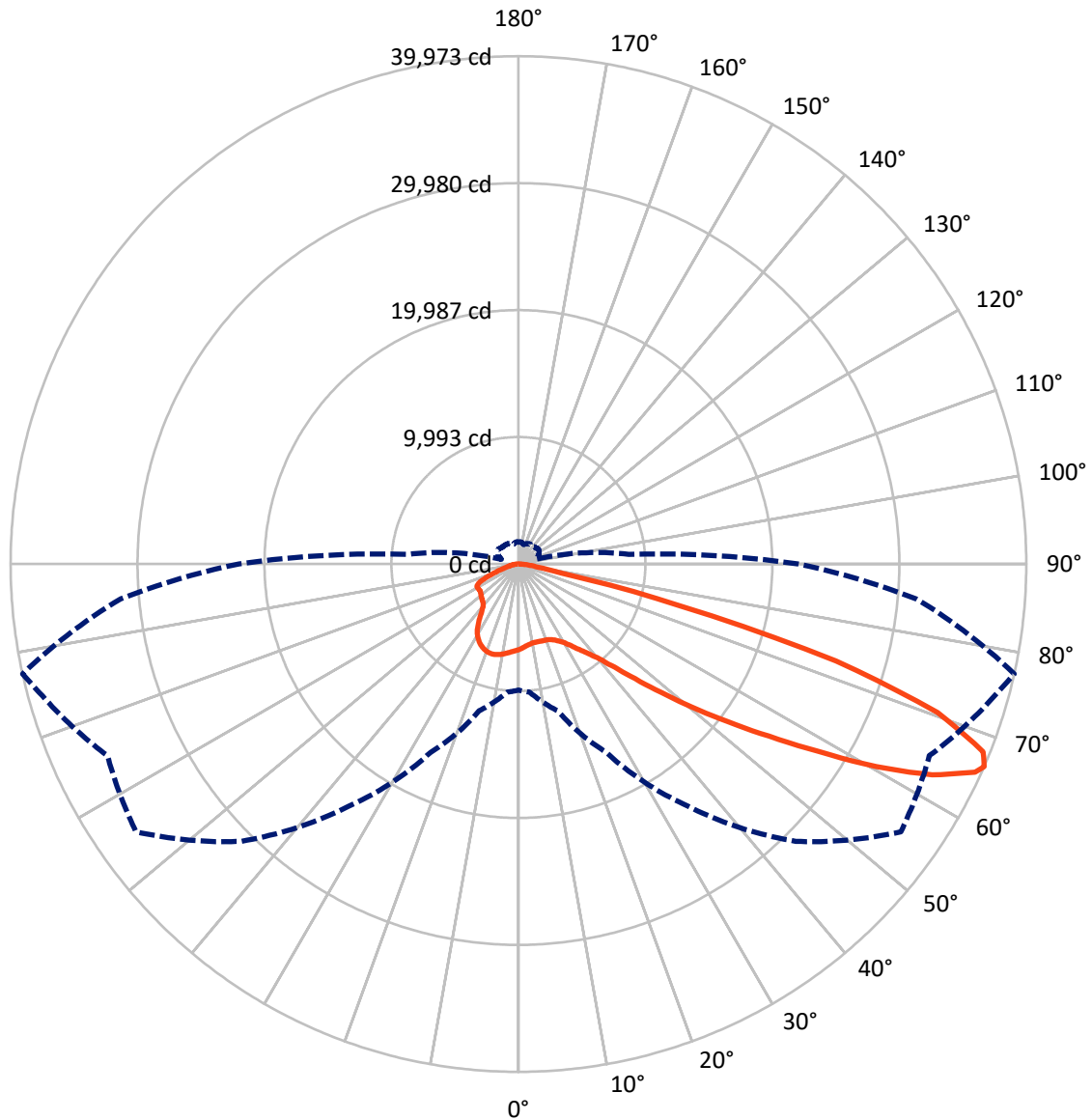
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8067.7	0.0	8067.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	39155.2	0.0	39155.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	47223.0	0.0	47223.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.2	1.3
10°-20°	1696.2	3.6
20°-30°	2894.8	6.1
30°-40°	4634.0	9.8
40°-50°	7159.1	15.2
50°-60°	10154.0	21.5
60°-70°	13583.3	28.8
70°-80°	5899.0	12.5
80°-90°	601.5	1.3
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°	47223.0	100.0
0°-180°	47223.0	100.0



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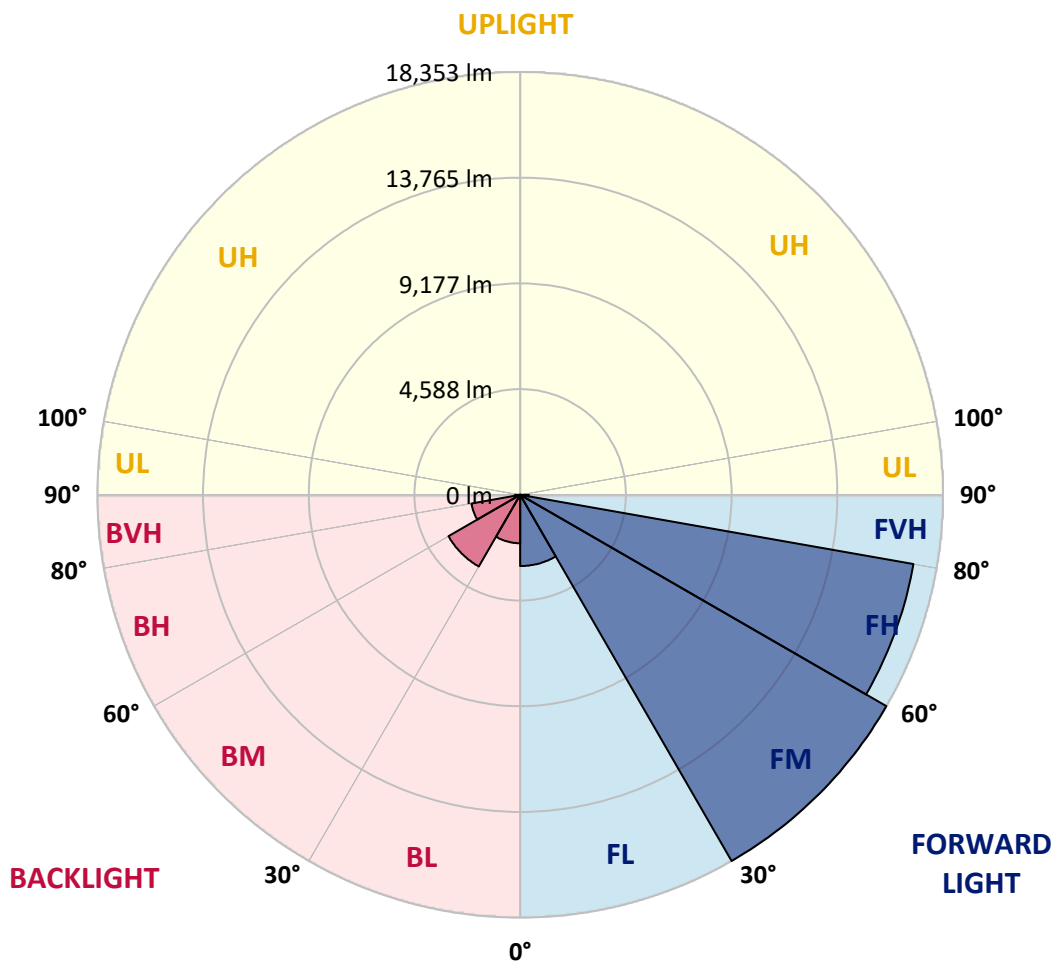
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3091.0	6.5			
FM	(30°-60°)	18353.3	38.9			
FH	(60°-80°)	17333.7	36.7			G5
FVH	(80°-90°)	377.3	0.8			G3/500
BL	(0°-30°)	2101.2	4.4	B3/2500		
BM	(30°-60°)	3593.7	7.6	B3/5000		
BH	(60°-80°)	2148.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	224.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5
2.5°	5953.0	5993.2	6026.7	6057.9	6120.4	6223.0	6341.3	6437.2	6575.5	6602.3	6676.0
5°	5406.4	5406.4	5433.1	5480.0	5564.8	5718.7	5879.4	6093.6	6394.8	6466.2	6662.6
7.5°	5140.8	5143.1	5158.7	5198.9	5272.5	5413.1	5589.3	5841.5	6249.8	6368.0	6702.7
10°	5239.0	5216.7	5183.2	5163.2	5174.3	5256.9	5424.2	5705.4	6160.5	6312.3	6792.0
12.5°	5787.9	5745.5	5629.5	5475.5	5328.3	5268.0	5366.2	5640.6	6122.6	6298.9	6910.2
15°	6684.9	6667.0	6450.6	6131.5	5774.5	5475.5	5408.6	5616.1	6127.1	6314.5	7050.8
17.5°	7809.4	7784.9	7499.3	7035.2	6452.8	5870.5	5558.1	5636.2	6142.7	6341.3	7186.9
20°	8945.2	8869.3	8561.4	8008.0	7260.5	6408.2	5805.8	5687.5	6162.8	6370.3	7329.7
22.5°	9793.0	9730.6	9453.9	8916.1	8054.9	7030.7	6138.2	5776.8	6227.5	6455.1	7506.0
25°	10538.3	10542.7	10268.3	9748.4	8858.1	7691.2	6566.6	6015.5	6392.6	6629.1	7747.0
27.5°	11459.8	11406.2	11149.6	10634.2	9652.5	8358.3	7084.3	6343.5	6638.0	6876.8	8063.8
30°	12562.0	12524.1	12227.3	11642.8	10533.8	9074.6	7675.6	6725.0	6954.9	7202.5	8478.8
32.5°	13858.4	13840.6	13532.6	12780.7	11551.3	9918.0	8369.5	7229.3	7427.9	7684.5	9074.6
35°	15380.1	15382.4	15018.7	14115.0	12664.7	10899.7	9157.1	7878.6	8003.6	8271.3	9784.1
37.5°	16317.3	16431.1	16294.9	15373.4	13925.3	11997.5	10179.0	8739.9	8659.5	8929.5	10545.0
40°	16518.1	16656.4	17087.0	16618.5	15335.5	13206.9	11084.9	9567.7	9467.3	9797.5	11524.5
42.5°	16236.9	16428.8	17339.2	17669.4	16832.7	14697.4	12303.2	10797.1	10669.9	11113.9	12742.8
45°	16069.6	16212.4	17265.5	18216.1	18131.3	16382.0	13853.9	12341.1	12294.3	12876.6	14148.5
47.5°	15779.5	15908.9	16921.9	18343.2	18894.4	17926.0	15717.0	14228.8	14320.3	15083.4	15734.9
50°	15935.7	15989.3	16538.2	18019.7	19115.3	19057.3	17798.8	16415.4	16727.8	17680.6	17531.1
52.5°	15913.4	16051.7	16493.5	17488.7	19144.3	19755.6	19849.4	18854.2	19512.4	20605.8	19523.6
55°	12865.5	13119.9	15969.2	17354.8	19246.9	20440.6	21674.5	21424.6	22651.8	23925.9	21772.7
57.5°	12285.4	12446.0	14025.7	17635.9	19791.3	21748.2	23705.0	24253.9	26306.6	27786.0	24512.7
60°	12171.6	12370.1	14005.7	17979.6	20895.8	23879.0	26715.0	27678.9	30753.6	32373.5	27690.0
62.5°	11816.8	12031.0	13874.0	17934.9	22464.4	26826.5	30568.4	31320.3	34970.7	36545.9	30347.5
65°	10692.2	10893.0	12800.8	17214.2	23522.0	29972.6	35129.1	34658.3	38299.7	39484.5	31672.8
66°	9922.4	10118.8	11955.1	16366.3	23276.6	30865.1	36744.5	35691.4	39044.9	39973.2	31414.0
67.5°	8514.5	8668.5	10312.9	14467.5	21971.3	31115.0	38103.4	36467.8	39123.0	39451.0	29934.7
70°	5379.6	5424.2	6702.7	9987.2	16631.9	26984.9	36035.0	34540.0	35896.6	35008.6	25095.1
72.5°	2333.9	2318.3	3217.5	5080.6	9415.9	18106.7	29149.3	28500.0	28158.6	26132.6	17566.8
75°	1298.6	1316.4	1671.2	2358.4	3826.6	8893.8	19068.4	18247.3	15406.9	13146.6	7965.6
77.5°	1042.0	1066.5	1385.6	1673.5	1718.1	3101.5	8922.8	7260.5	4371.1	3507.6	2213.4
80°	823.3	868.0	1209.3	1303.1	1158.0	1278.5	2882.8	2304.9	1729.2	1586.4	1146.9
82.5°	651.5	682.8	1037.5	986.2	810.0	861.3	1381.2	1345.5	1124.6	1024.2	662.7
85°	468.6	526.6	852.3	743.0	531.0	580.1	917.1	879.1	644.8	526.6	292.3
87.5°	191.9	249.9	602.4	493.1	296.8	270.0	457.4	430.6	305.7	223.1	145.0
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°	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5
2.5°	6722.8	6776.4	6845.5	6887.9	6910.2	6925.9	6950.4	6948.2	6954.9	6957.1	6966.0
5°	6767.4	6856.7	6957.1	6983.9	6983.9	6959.3	6934.8	6894.6	6879.0	6874.5	6879.0
7.5°	6883.5	6981.6	7068.7	7037.4	6970.5	6872.3	6745.1	6633.6	6573.3	6553.2	6548.8
10°	7030.7	7149.0	7184.7	7066.4	6870.1	6633.6	6381.4	6198.5	6093.6	6064.6	6055.7
12.5°	7209.2	7320.8	7271.7	7021.8	6658.1	6276.6	5928.5	5636.2	5417.5	5348.3	5343.9
15°	7405.6	7492.6	7320.8	6883.5	6341.3	5779.0	5158.7	4654.4	4382.2	4295.2	4288.5
17.5°	7588.5	7633.2	7291.8	6642.5	5874.9	4964.6	4141.2	3753.0	3659.3	3681.6	3686.1
20°	7744.7	7744.7	7193.6	6296.6	5140.8	3891.3	3371.4	3364.8	3431.7	3498.6	3512.0
22.5°	7916.5	7813.9	7021.8	5808.0	4101.1	3184.0	3108.2	3170.6	3246.5	3320.1	3331.3
25°	8128.5	7869.7	6783.1	5067.2	3224.2	2891.7	2920.7	2972.0	3010.0	3056.8	3063.5
27.5°	8365.0	7941.1	6468.4	4047.5	2798.0	2708.8	2731.1	2748.9	2744.5	2762.3	2766.8
30°	8648.4	8023.6	6037.8	3163.9	2621.7	2552.6	2512.4	2496.8	2496.8	2525.8	2537.0
32.5°	9027.7	8146.4	5419.7	2711.0	2537.0	2441.0	2311.6	2253.6	2275.9	2374.1	2396.4
35°	9445.0	8278.0	4583.0	2557.0	2519.1	2389.7	2188.9	2081.8	2084.0	2175.5	2204.5
37.5°	9900.1	8445.3	3666.0	2528.0	2559.3	2391.9	2124.2	1976.9	1916.7	1916.7	1927.8
40°	10482.5	8617.2	2967.6	2548.1	2644.1	2418.7	2090.7	1894.3	1724.8	1729.2	1738.2
42.5°	11241.1	8764.4	2592.7	2590.5	2746.7	2454.4	2088.5	1785.0	1637.8	1738.2	1829.6
45°	12084.5	8838.0	2427.6	2628.4	2829.2	2476.7	2052.8	1767.2	1648.9	1947.9	2121.9
47.5°	13055.1	8795.7	2336.1	2641.8	2849.3	2476.7	2012.6	1809.6	1727.0	2255.8	2458.9
50°	14119.5	8672.9	2246.9	2615.0	2842.6	2472.2	2050.5	1852.0	1756.0	2309.4	2449.9
52.5°	15371.2	8570.3	2153.2	2557.0	2795.8	2447.7	2095.2	1834.1	1664.5	2099.6	2197.8
55°	16799.2	8599.3	2048.3	2474.5	2722.1	2400.8	2079.5	1762.7	1568.6	1849.7	1910.0
57.5°	18624.4	8945.2	1923.4	2369.6	2621.7	2322.7	2023.8	1729.2	1539.6	1677.9	1713.6
60°	20661.5	9547.6	1767.2	2264.7	2496.8	2197.8	1981.4	1744.9	1553.0	1664.5	1682.4
62.5°	22156.5	9897.9	1633.3	2110.8	2327.2	2059.5	1927.8	1764.9	1588.7	1711.4	1706.9
65°	22562.6	9322.2	1465.9	1885.4	2097.4	1914.4	1860.9	1787.2	1604.3	1749.3	1729.2
66°	21993.6	8701.9	1392.3	1780.6	1981.4	1843.0	1827.4	1785.0	1597.6	1753.8	1720.3
67.5°	20612.4	7430.1	1265.1	1626.6	1796.2	1735.9	1773.9	1764.9	1579.7	1749.3	1702.5
70°	16810.4	5069.4	1082.2	1354.4	1494.9	1528.4	1671.2	1693.5	1521.7	1671.2	1568.6
72.5°	11745.4	3088.1	957.2	1050.9	1209.3	1303.1	1530.6	1595.4	1443.6	1459.2	1361.1
75°	5676.3	1640.0	868.0	814.4	939.4	1088.9	1361.1	1461.5	1320.9	1220.5	1184.8
77.5°	1769.4	1001.8	736.3	656.0	736.3	879.1	1137.9	1280.7	1175.9	1021.9	1008.5
80°	950.5	736.3	566.7	526.6	582.4	689.5	894.7	1068.8	1010.8	917.1	818.9
82.5°	627.0	477.5	419.5	408.3	444.0	526.6	664.9	885.8	885.8	785.4	571.2
85°	323.5	292.3	287.8	287.8	310.1	350.3	452.9	682.8	727.4	415.0	343.6
87.5°	160.7	167.3	156.2	162.9	174.0	171.8	216.4	343.6	410.6	252.1	209.7
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)