

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: P191778

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191778
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-10-LED-E1-AFL-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60444 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

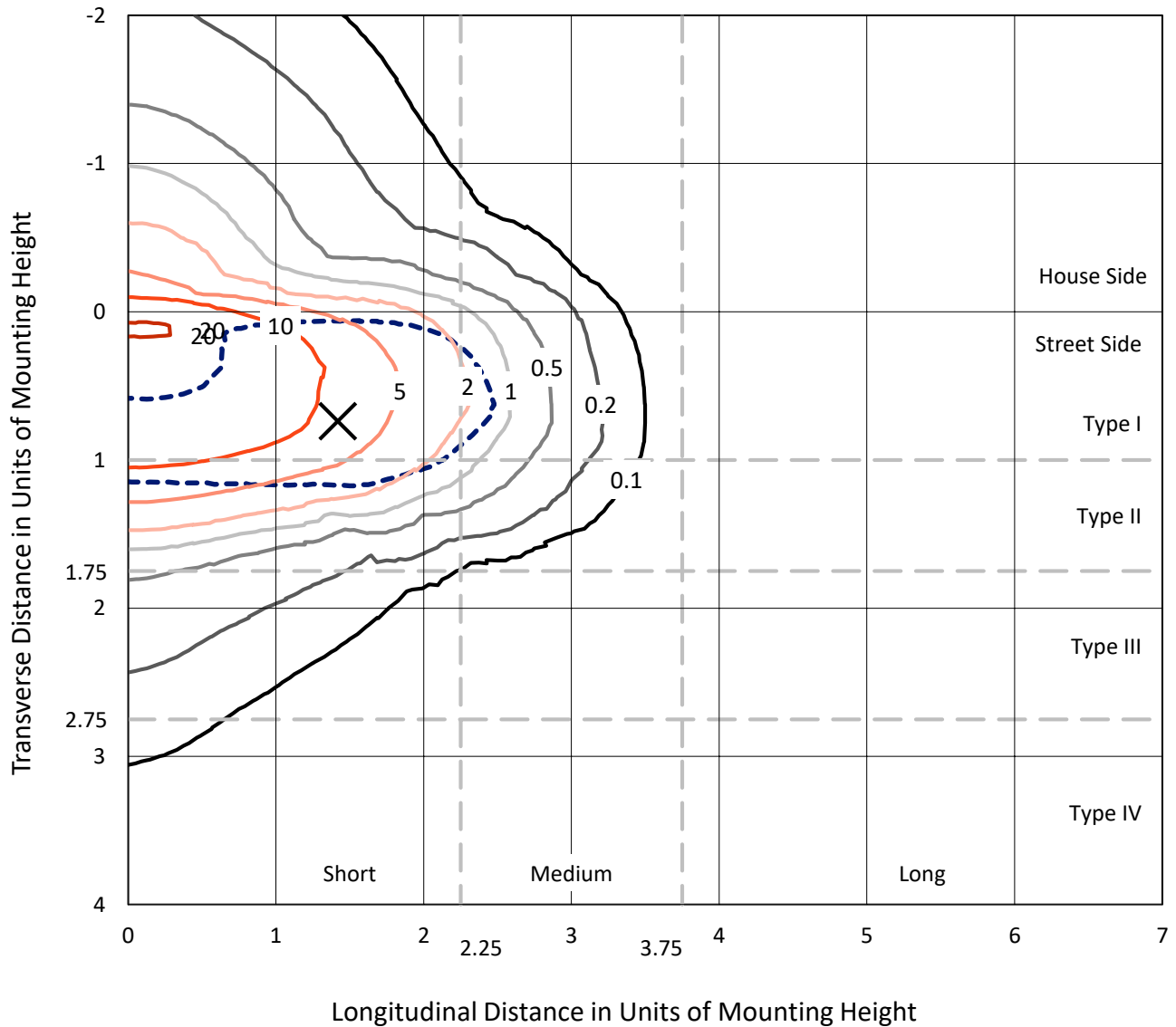
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

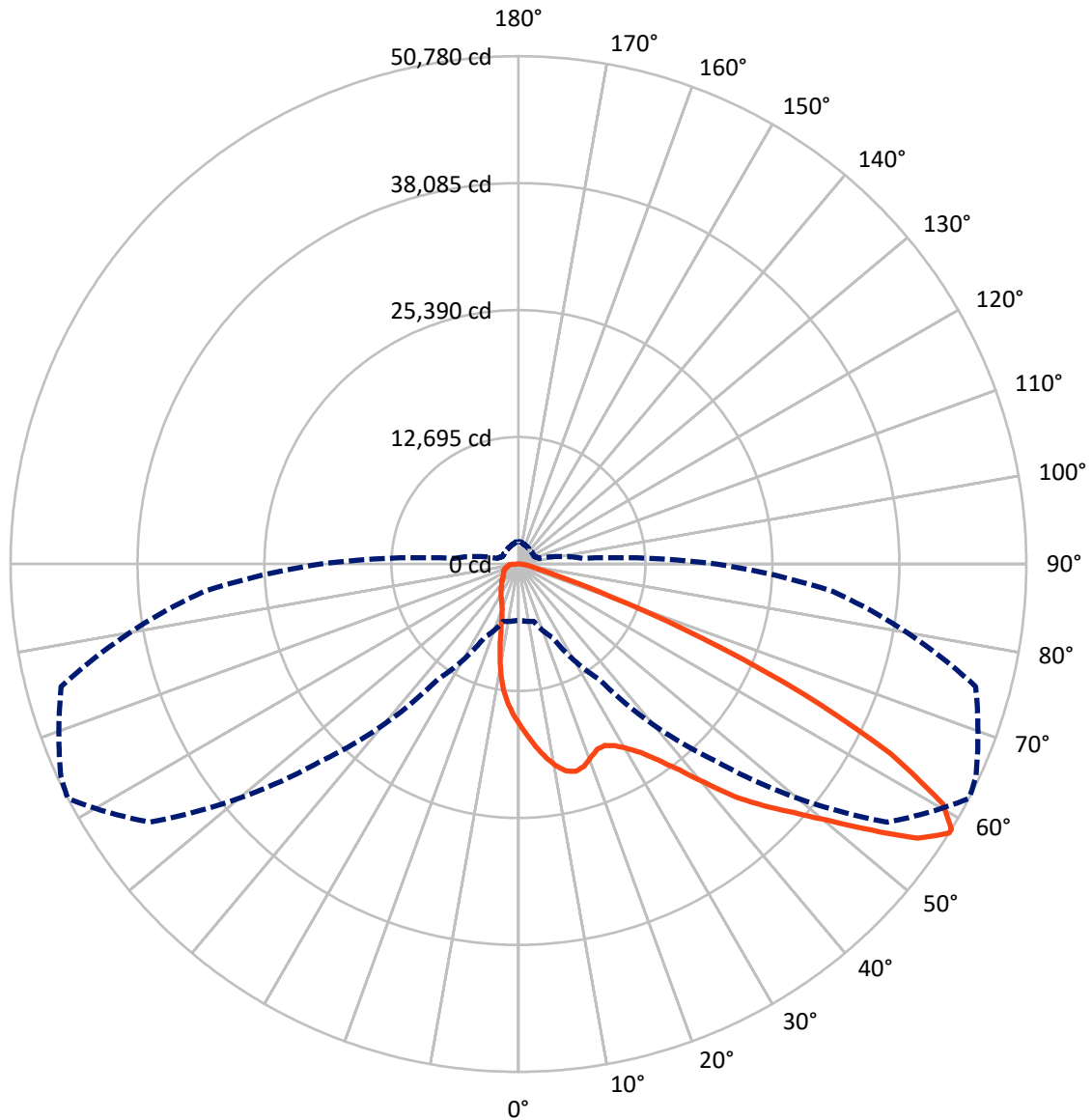
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21.7 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	9217.9	0.0	9217.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	51226.1	0.0	51226.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	60444.0	0.0	60444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1436.0	2.4
10°-20°	3670.5	6.1
20°-30°	5933.5	9.8
30°-40°	9419.4	15.6
40°-50°	13782.5	22.8
50°-60°	14415.4	23.8
60°-70°	8516.6	14.1
70°-80°	2399.2	4.0
80°-90°	871.0	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°	60444.0	100.0
0°-180°	60444.0	100.0

Coefficient of Utilization



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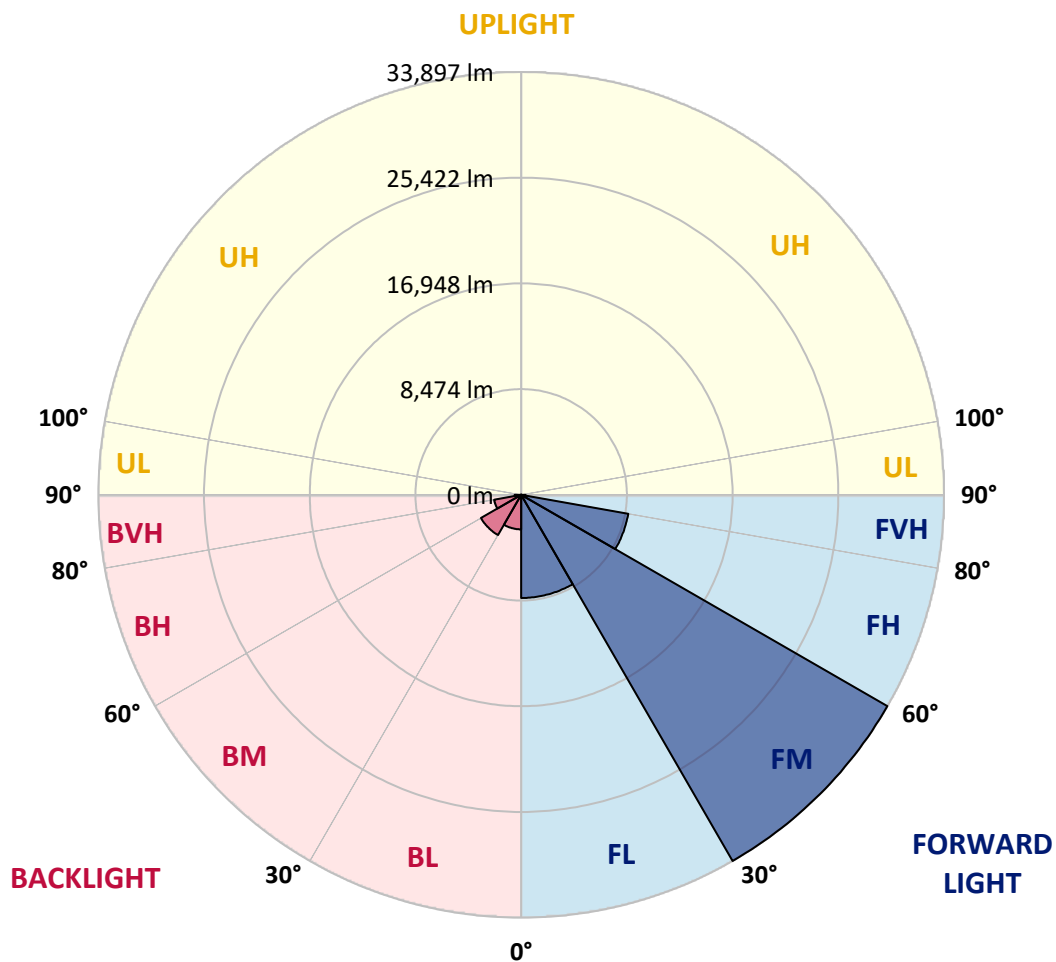
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8269.5	13.7			
FM (30°-60°)	33896.7	56.1			
FH (60°-80°)	8716.3	14.4			G4/12000
FVH (80°-90°)	343.6	0.6			G3/500
BL (0°-30°)	2770.5	4.6	B4/5000		
BM (30°-60°)	3720.6	6.2	B3/5000		
BH (60°-80°)	2199.5	3.6	B3/2500		G3/2500
BVH (80°-90°)	527.4	0.9			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7
2.5°	18347.0	18198.9	18105.0	18022.5	17914.3	17683.8	17373.5	17177.1	17077.5	16738.8	16337.5
5°	20145.8	20014.9	19918.1	19807.1	19613.5	19252.1	18751.1	18352.6	18156.3	17478.8	16676.2
7.5°	19724.5	19778.6	19946.5	20239.7	20490.2	20441.8	19994.9	19488.3	19229.3	18287.2	17069.0
10°	17185.7	17279.6	17569.9	18255.9	19365.9	20504.4	20851.7	20501.6	20239.7	19087.0	17473.2
12.5°	16676.2	16673.4	16696.1	16878.3	17538.6	19141.1	20880.1	21233.1	21076.5	19849.8	17885.9
15°	16884.0	16889.7	16872.6	16949.4	17154.4	17789.1	20009.2	21514.8	21625.8	20618.3	18312.8
17.5°	17430.5	17416.2	17350.8	17350.8	17424.8	17672.4	18984.5	21253.0	21765.3	21298.5	18688.5
20°	18347.0	18281.5	18107.9	17948.5	17868.8	18002.6	18563.3	20649.6	21523.4	21893.4	18998.7
22.5°	19457.0	19405.8	19124.0	18782.4	18506.3	18503.5	18779.6	20123.0	21105.0	22454.1	19260.6
25°	20891.5	20809.0	20390.6	19844.1	19360.2	19175.2	19252.1	20097.4	20877.3	23063.2	19494.0
27.5°	22576.5	22425.6	21930.4	21142.0	20430.4	20057.6	19946.5	20561.3	21085.0	23817.5	19818.5
30°	24620.1	24446.5	23811.8	22784.3	21779.5	21167.6	20931.4	21383.9	21773.8	24736.8	20339.3
32.5°	26945.5	26695.0	25960.7	24827.9	23507.2	22573.6	22189.4	22471.2	22781.4	25844.0	20991.1
35°	30158.9	29860.0	28798.4	27235.8	25744.4	24460.7	23845.9	24050.8	24352.5	27494.8	21933.2
37.5°	32350.5	32216.7	31510.9	30042.2	28419.8	26942.6	25992.0	26111.5	26282.3	29558.3	23140.0
40°	32330.6	32384.7	32398.9	32413.1	31308.8	29894.2	28872.4	28747.2	28713.0	31824.0	24511.9
42.5°	30711.1	30933.1	31650.3	33104.8	33776.5	33127.5	32191.1	31829.7	31650.3	34493.7	25966.4
45°	28232.0	28351.5	29695.0	32535.5	35040.2	36329.6	35620.9	34482.4	34157.9	36947.2	27173.2
47.5°	26954.0	27085.0	27930.3	31027.0	35026.0	38916.8	39326.7	37157.8	36577.2	39081.9	28214.9
50°	23911.4	24184.6	25249.1	28402.8	33748.0	40106.6	43200.4	40345.6	39144.5	41159.7	29259.5
52.5°	18324.2	18745.4	19938.0	24087.8	30506.1	39517.4	46300.0	44210.9	42514.5	43311.4	30156.1
55°	11558.6	11871.7	12873.6	17012.1	24403.8	36452.0	47475.5	48392.0	46883.5	45349.4	30933.1
57.5°	6284.5	6424.0	6799.7	9392.6	15873.6	29675.0	45762.1	50771.5	50145.3	47079.9	31519.4
58°	5624.2	5718.1	5951.5	8140.3	14077.6	27822.1	45002.1	50780.0	50466.9	47333.2	31565.0
60°	4172.6	4124.2	3916.4	4645.1	7835.7	19220.8	40408.3	48747.8	49667.1	47643.4	31342.9
62.5°	3666.0	3549.3	3125.2	3076.8	3811.1	8854.7	30918.9	41757.4	43929.1	45873.1	29993.8
65°	3444.0	3318.7	2772.3	2595.8	2749.5	3745.7	18213.2	31317.3	34041.2	40505.0	26544.2
67.5°	3278.9	3116.6	2547.4	2305.5	2316.9	2476.2	7300.6	19724.5	22790.0	30753.8	20646.7
70°	3119.5	2943.0	2356.7	2077.8	2012.3	1958.2	2903.2	9873.7	12654.4	19425.7	13163.9
72.5°	2948.7	2775.1	2188.8	1898.5	1770.4	1591.1	1895.6	4038.8	5641.3	9190.6	5971.4
75°	2701.1	2544.6	2020.8	1739.1	1556.9	1317.8	1431.7	2109.1	2530.3	3660.3	2877.6
77.5°	2396.5	2268.5	1833.0	1608.1	1380.4	1070.2	1101.5	1463.0	1622.4	2094.8	1710.6
80°	1722.0	1767.5	1630.9	1445.9	1229.6	868.1	845.3	1067.3	1152.7	1346.3	1112.9
82.5°	1209.7	1235.3	1349.1	1181.2	1016.1	683.1	623.3	751.4	802.6	885.2	600.6
85°	834.0	805.5	925.0	822.6	734.3	455.4	426.9	509.5	540.8	549.3	310.2
87.5°	500.9	500.9	535.1	441.2	395.6	236.2	230.5	290.3	310.2	296.0	170.8
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°	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7	16055.7
2.5°	16098.4	15896.3	15466.5	15122.1	14686.7	14234.1	13980.8	13710.4	13525.4	13391.6	13605.1
5°	16220.8	15808.1	14920.1	14077.6	13146.8	12179.1	11444.8	10761.7	10286.4	9990.4	10269.3
7.5°	16414.3	15779.6	14365.0	12924.8	11254.1	9643.1	8202.9	7300.6	6774.1	6515.1	6677.3
10°	16636.4	15734.1	13713.3	11362.2	8971.4	6942.0	5866.1	5501.8	5382.3	5333.9	5356.6
12.5°	16821.4	15637.3	12913.5	9472.3	6737.1	5481.9	5171.6	5163.1	5188.7	5194.4	5203.0
15°	16952.3	15495.0	11726.6	7502.7	5388.0	4995.2	4978.1	5029.3	5077.7	5097.6	5109.0
17.5°	17040.5	15201.8	10386.0	5931.6	4827.2	4758.9	4798.8	4864.2	4915.5	4929.7	4941.1
20°	17032.0	14772.1	8789.2	4946.8	4522.7	4522.7	4591.0	4642.2	4645.1	4628.0	4636.5
22.5°	16943.7	14182.9	7240.9	4423.1	4252.3	4300.7	4369.0	4320.6	4121.4	3990.4	3999.0
25°	16795.7	13479.9	5914.5	4090.1	4001.8	4087.2	4067.3	3703.0	3418.4	3290.3	3290.3
27.5°	16664.8	12648.8	4895.6	3799.7	3751.4	3856.7	3503.7	3173.6	3054.0	2994.3	2974.3
30°	16570.9	11752.2	4215.3	3520.8	3515.1	3438.3	3039.8	2948.7	2928.8	2880.4	2863.3
32.5°	16593.7	10844.2	3779.8	3276.0	3296.0	2943.0	2817.8	2837.7	2820.6	2769.4	2746.6
35°	16781.5	9981.8	3495.2	3054.0	2994.3	2658.4	2686.9	2723.9	2718.2	2647.0	2624.2
37.5°	17117.4	9164.9	3307.3	2869.0	2612.9	2516.1	2561.6	2618.6	2604.3	2555.9	2538.9
40°	17470.3	8396.4	3153.6	2723.9	2388.0	2419.3	2459.2	2490.5	2504.7	2518.9	2507.5
42.5°	17814.7	7593.8	2965.8	2575.9	2294.1	2328.2	2345.3	2376.6	2453.5	2507.5	2504.7
45°	18019.6	6839.5	2772.3	2365.2	2220.1	2240.0	2228.6	2291.2	2385.2	2473.4	2476.2
47.5°	18247.3	6253.2	2618.6	2171.7	2148.9	2163.2	2129.0	2191.6	2277.0	2385.2	2396.5
50°	18523.4	5903.1	2496.2	2018.0	2052.1	2052.1	2043.6	2100.5	2220.1	2345.3	2368.1
52.5°	18836.5	5834.8	2393.7	1907.0	1955.4	1952.5	1961.1	2046.5	2177.4	2299.8	2319.7
55°	19217.9	6019.8	2282.7	1824.4	1861.4	1872.8	1901.3	1998.1	2109.1	2248.5	2257.1
57.5°	19661.9	6395.5	2194.5	1759.0	1776.1	1813.1	1858.6	1946.8	2066.4	2220.1	2228.6
58°	19735.9	6475.2	2180.2	1753.3	1759.0	1801.7	1852.9	1938.3	2057.8	2225.8	2234.3
60°	19738.8	6739.9	2148.9	1727.7	1693.5	1764.7	1821.6	1907.0	2043.6	2245.7	2265.6
62.5°	19038.6	6737.1	2126.2	1690.7	1625.2	1713.4	1778.9	1878.5	2029.4	2294.1	2333.9
65°	16764.4	6122.3	2018.0	1633.7	1571.1	1667.9	1741.9	1858.6	2069.2	2504.7	2530.3
67.5°	13112.7	5017.9	1815.9	1554.1	1500.0	1622.4	1719.1	1855.8	2111.9	2553.1	2570.2
70°	8669.7	3754.2	1593.9	1463.0	1426.0	1568.3	1730.5	1952.5	2063.5	2450.6	2405.1
72.5°	4499.9	2635.6	1414.6	1349.1	1340.6	1519.9	1895.6	1941.1	2015.1	2305.5	2248.5
75°	2362.4	1830.1	1258.0	1223.9	1238.1	1508.5	2237.2	1889.9	1952.5	2205.8	2314.0
77.5°	1445.9	1477.2	1124.3	1110.0	1138.5	1474.4	2234.3	1824.4	1861.4	2029.4	2148.9
80°	967.7	1198.3	1021.8	1024.7	1044.6	1349.1	2006.6	1722.0	1750.4	1918.4	2040.8
82.5°	611.9	708.7	927.9	976.3	950.6	1112.9	1704.9	1568.3	1608.1	2194.5	2319.7
85°	310.2	444.0	805.5	939.3	856.7	779.9	1383.3	1374.7	1394.7	1582.5	1653.7
87.5°	142.3	244.8	629.0	819.7	646.1	486.7	1004.7	1019.0	1098.7	1124.3	1124.3
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)