

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: P191588

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65653 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

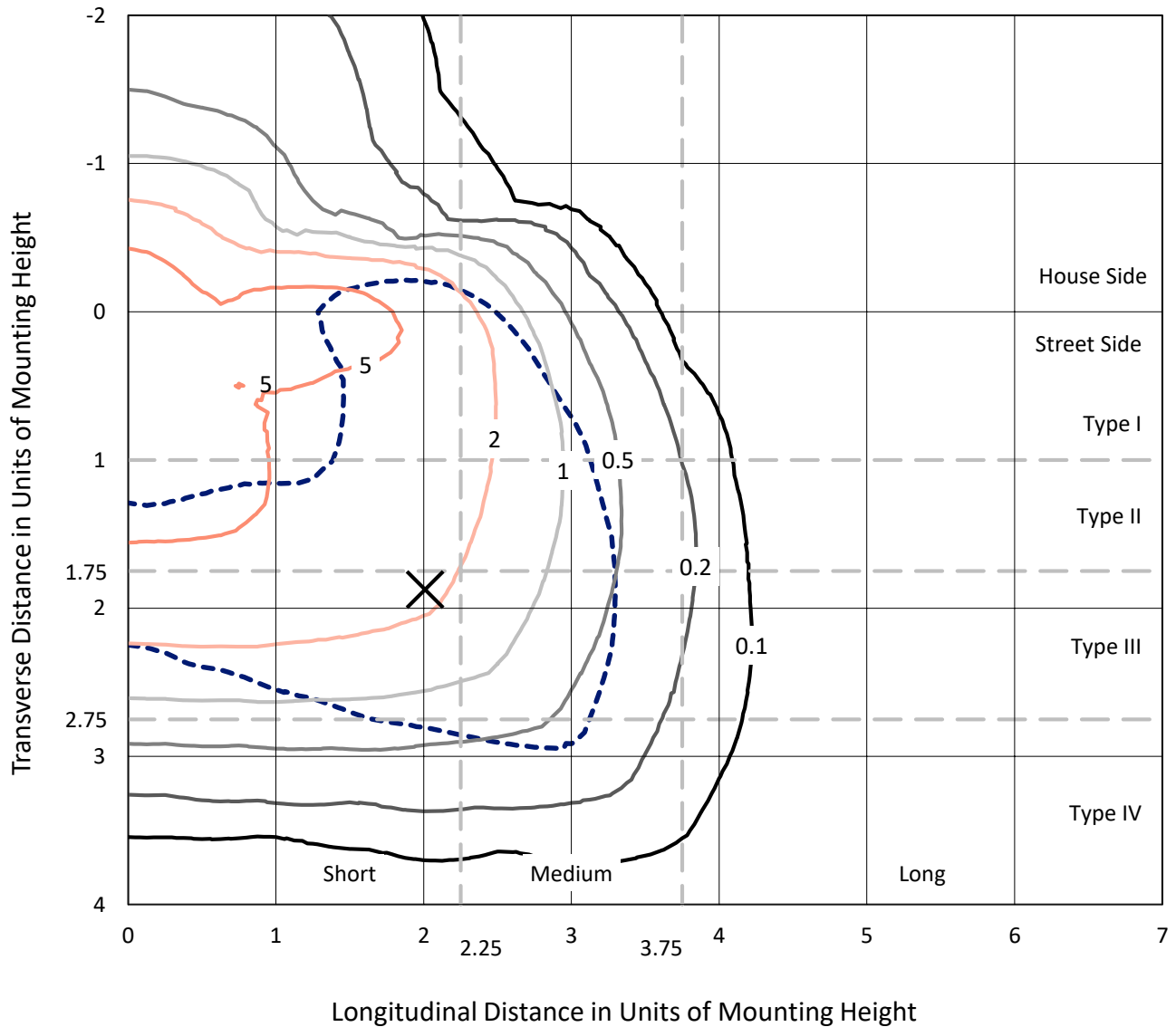
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191588
 CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W-1200

Iso-Footcandle Lines of Horizontal Illumination

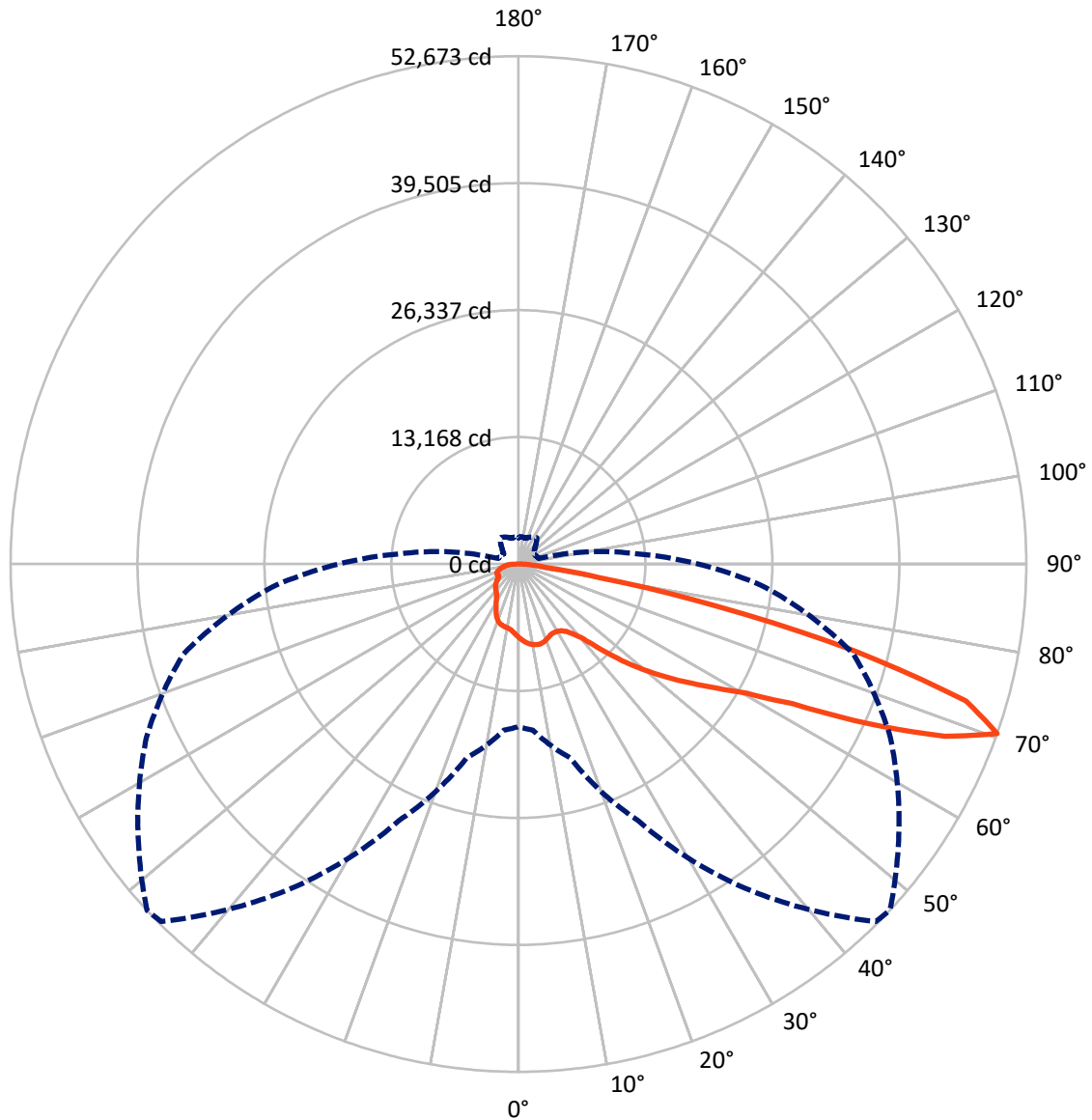
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191588
CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13696.5	0.0	13696.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	51956.5	0.0	51956.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	65653.0	0.0	65653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.9	1.1
10°-20°	2141.4	3.3
20°-30°	3162.2	4.8
30°-40°	4596.2	7.0
40°-50°	8271.6	12.6
50°-60°	14329.7	21.8
60°-70°	20452.7	31.2
70°-80°	10499.3	16.0
80°-90°	1469.9	2.2
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°	65653.0	100.0
0°-180°	65653.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191588

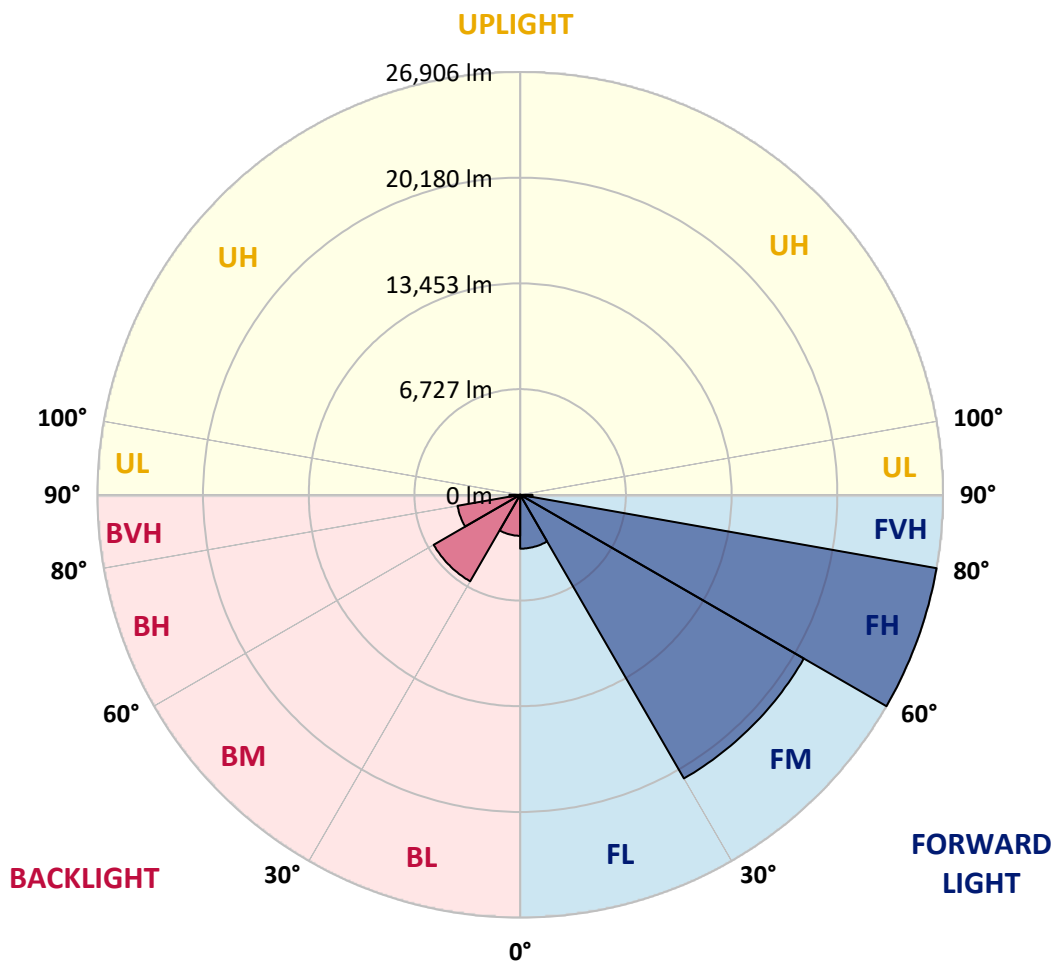
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3425.6	5.2			
FM	(30°-60°)	20840.1	31.7			
FH	(60°-80°)	26906.4	41.0			G5
FVH	(80°-90°)	784.4	1.2			G5
BL	(0°-30°)	2607.9	4.0	B4/5000		
BM	(30°-60°)	6357.5	9.7	B4/8500		
BH	(60°-80°)	4045.5	6.2	B4/5000		G4/5000
BVH	(80°-90°)	685.6	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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 CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8
2.5°	8064.9	8049.0	8042.6	8029.9	8013.9	7934.0	7918.0	7860.6	7780.7	7697.6	7611.4
5°	8595.1	8592.0	8556.9	8492.9	8390.8	8215.1	8173.6	8033.0	7844.6	7662.5	7480.4
7.5°	9061.5	9032.8	8965.7	8837.9	8659.1	8419.5	8362.0	8167.1	7908.4	7659.3	7413.3
10°	9403.3	9387.3	9240.3	9064.7	8831.5	8566.4	8499.4	8282.1	7997.8	7681.6	7375.1
12.5°	9598.1	9566.1	9396.8	9186.1	8908.2	8649.5	8582.4	8362.0	8042.6	7681.6	7320.7
15°	9585.4	9563.0	9393.7	9163.7	8882.6	8655.9	8595.1	8374.8	8033.0	7649.7	7250.5
17.5°	9329.8	9339.3	9195.6	8968.8	8738.9	8566.4	8512.1	8307.7	7969.1	7585.9	7167.4
20°	8882.6	8927.4	8831.5	8630.3	8502.6	8384.3	8349.2	8176.8	7870.1	7493.2	7078.0
22.5°	8435.5	8477.0	8438.6	8269.3	8250.2	8179.9	8160.8	8036.2	7783.8	7435.7	7023.7
25°	8106.5	8144.8	8138.4	7991.5	8049.0	8045.8	8029.9	7969.1	7764.7	7435.7	7033.3
27.5°	8017.1	8029.9	8017.1	7882.9	7962.8	8026.6	8013.9	8004.3	7822.2	7528.4	7154.6
30°	8323.6	8304.5	8205.5	7934.0	8007.5	8096.9	8084.1	8090.5	7994.7	7771.2	7426.1
32.5°	9547.0	9460.8	9147.7	8384.3	8189.5	8237.4	8243.9	8349.2	8365.2	8144.8	7847.8
35°	11377.2	11281.3	10875.7	9591.7	8754.8	8588.8	8588.8	8748.5	8844.3	8681.4	8502.6
37.5°	13316.0	13210.6	12993.3	11265.3	9943.1	9198.9	9182.8	9294.6	9432.0	9470.4	9515.1
40°	15519.8	15408.1	15468.8	13143.5	11600.8	10256.1	10029.3	9949.4	10319.9	10565.9	10923.6
42.5°	17931.3	17880.3	17902.6	15235.6	13488.4	11837.1	11514.5	11102.5	11549.6	11987.2	12737.9
45°	20164.0	20208.7	20186.3	17474.6	15590.1	13766.4	13424.6	12626.1	13063.6	13814.2	15037.6
47.5°	22118.8	21933.5	22220.9	19921.3	17944.1	15925.5	15503.8	14433.8	14877.8	15804.1	17873.8
50°	24491.9	24466.3	24044.8	23185.6	20790.0	18094.3	17541.7	16302.4	16992.3	18279.5	21448.0
52.5°	26986.5	26523.3	26136.8	25724.9	23808.4	20317.3	19640.1	18164.5	19477.3	21096.6	25804.7
55°	27497.5	27289.9	27769.0	28462.1	26718.1	22626.5	21837.6	20499.3	22275.3	24316.3	30828.9
57.5°	28589.8	28586.7	29576.8	30812.9	29714.2	25076.4	24281.1	23319.7	25421.4	28005.3	36162.9
60°	29327.7	29535.4	31375.0	33773.8	32655.9	27906.3	27174.9	26574.4	28998.7	32128.8	41132.9
62.5°	29714.2	29995.3	32505.8	34974.8	36814.6	32617.6	31886.1	31020.6	33732.3	36651.6	44039.5
65°	28107.6	28660.1	32330.1	36012.8	40455.8	40254.5	39925.6	38405.2	39650.8	40225.8	42988.6
67.5°	23661.5	24226.9	28500.4	35045.1	43055.7	47620.0	47690.3	45093.5	43292.0	40532.4	36143.8
70°	16858.1	17302.1	20837.9	29382.0	41075.4	52433.4	52673.0	48175.8	42567.0	35945.8	25252.1
72.5°	8004.3	8275.8	11623.1	19122.7	32595.2	48041.6	48504.7	44240.7	36194.9	26612.8	13775.9
75°	2941.7	3024.8	3928.6	8135.2	18905.6	35428.3	35974.5	31713.6	23993.6	13248.8	5247.8
77.5°	1763.2	1817.4	2203.8	3433.6	7435.7	20250.2	21058.4	17247.9	10486.1	4931.6	2580.8
80°	1232.9	1271.2	1581.1	2136.8	3513.4	7716.8	8435.5	7039.6	4177.8	3120.6	1878.1
82.5°	833.6	852.8	1111.5	1443.7	2334.9	2756.4	2973.6	3130.1	2817.1	2322.1	1191.3
85°	546.2	565.4	753.8	951.9	1485.2	1424.6	1456.5	1842.9	2056.9	1577.9	661.1
87.5°	313.0	325.8	453.6	507.9	728.2	603.6	610.1	971.0	1315.9	1063.7	402.4
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°	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8
2.5°	7589.1	7547.5	7454.9	7397.4	7343.2	7330.4	7308.0	7304.8	7301.6	7301.6	7292.0
5°	7419.8	7349.5	7205.8	7125.9	7058.9	7052.4	7049.3	7065.2	7071.7	7078.0	7068.4
7.5°	7311.1	7215.4	7036.5	6921.5	6841.6	6822.5	6854.4	6927.8	6975.8	6994.9	6985.3
10°	7244.1	7125.9	6918.3	6793.7	6726.6	6717.1	6758.6	6844.9	6943.9	6982.2	6979.0
12.5°	7167.4	7033.3	6812.9	6681.9	6643.7	6662.8	6717.1	6796.9	6899.1	6959.9	6963.0
15°	7090.8	6934.3	6707.5	6592.5	6576.6	6602.1	6653.2	6713.8	6793.7	6854.4	6860.8
17.5°	6998.1	6835.3	6608.5	6490.3	6477.5	6490.3	6493.5	6525.4	6576.6	6634.0	6650.0
20°	6899.1	6733.1	6496.7	6378.5	6321.0	6269.9	6212.4	6218.8	6234.8	6292.3	6305.1
22.5°	6828.8	6662.8	6410.4	6247.6	6094.2	5940.9	5825.9	5810.0	5816.4	5864.3	5880.2
25°	6835.3	6659.6	6388.1	6107.0	5771.6	5525.7	5372.3	5346.9	5343.6	5378.8	5401.1
27.5°	6959.9	6784.1	6471.1	5963.3	5420.3	5056.1	4893.3	4874.2	4848.6	4858.1	4883.7
30°	7237.7	7074.8	6672.4	5816.4	5040.2	4596.2	4426.9	4407.8	4372.6	4356.6	4375.9
32.5°	7691.3	7557.2	6966.2	5675.8	4660.2	4203.4	4030.8	3989.4	3967.0	3947.9	3963.8
35°	8445.1	8387.6	7359.1	5522.5	4324.7	3899.9	3743.4	3679.6	3647.6	3682.7	3708.3
37.5°	9626.9	9658.8	7873.3	5282.9	4066.0	3698.7	3567.7	3494.3	3446.3	3475.2	3503.9
40°	11300.5	11322.8	8441.9	4944.3	3842.4	3580.5	3440.0	3372.9	3305.9	3254.7	3251.6
42.5°	13498.0	13271.3	9000.8	4577.1	3583.7	3507.1	3350.6	3267.5	3165.3	3024.8	2996.0
45°	16104.3	15309.1	9425.6	4155.4	3293.1	3417.6	3251.6	3136.6	2976.9	2823.5	2807.6
47.5°	19106.8	17497.0	9633.2	3717.9	3021.6	3286.6	3130.1	2948.1	2746.8	2670.2	2660.6
50°	22773.5	20093.7	9732.3	3293.1	2785.2	3114.2	2954.5	2740.5	2571.2	2555.2	2545.6
52.5°	26948.1	23217.5	9764.2	2944.9	2590.4	2890.7	2810.8	2603.1	2469.0	2481.8	2481.8
55°	31317.5	26443.5	9329.8	2692.6	2411.5	2660.6	2714.9	2548.9	2437.1	2488.1	2507.4
57.5°	35329.3	29302.1	7962.8	2497.7	2242.2	2485.0	2679.8	2599.9	2523.3	2730.9	2743.7
60°	38408.3	30991.8	5947.3	2322.1	2117.6	2424.3	2772.4	2794.8	2813.9	3309.0	3376.1
62.5°	39053.5	30429.6	4088.3	2184.7	2060.1	2475.3	2941.7	2944.9	2922.6	3267.5	3309.0
65°	36092.7	26874.7	2973.6	2108.1	2012.2	2568.0	3085.4	3018.3	2871.4	3133.4	3056.7
67.5°	28663.3	20247.1	2475.3	2050.6	1942.0	2561.6	3238.8	3085.4	2842.7	3069.5	2944.9
70°	18605.3	12242.8	2203.8	2002.6	1858.9	2440.2	3328.2	3079.1	2759.6	2855.5	2708.6
72.5°	9077.5	5474.6	2021.9	1932.4	1772.7	2271.0	3325.0	3021.6	2673.4	2667.0	2587.1
75°	3551.8	2507.4	1855.7	1827.0	1625.8	2079.4	3235.6	2938.5	2571.2	2469.0	2440.2
77.5°	2079.4	1788.6	1644.9	1670.5	1450.1	1887.7	3104.7	2794.8	2430.6	2309.3	2277.4
80°	1514.0	1338.3	1402.2	1443.7	1239.3	1696.1	2928.9	2619.2	2274.1	2334.9	2290.1
82.5°	971.0	862.3	1137.1	1178.6	1031.6	1501.2	2737.3	2433.9	2053.8	1865.4	1820.6
85°	495.1	546.2	846.4	897.5	795.3	1232.9	2504.1	2187.9	1804.6	1552.3	1577.9
87.5°	277.8	373.7	539.8	603.6	562.1	948.6	2031.4	1804.6	1472.4	1197.8	1054.0
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)