

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: P269660

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269660
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-09-LED-E1-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49770.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

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

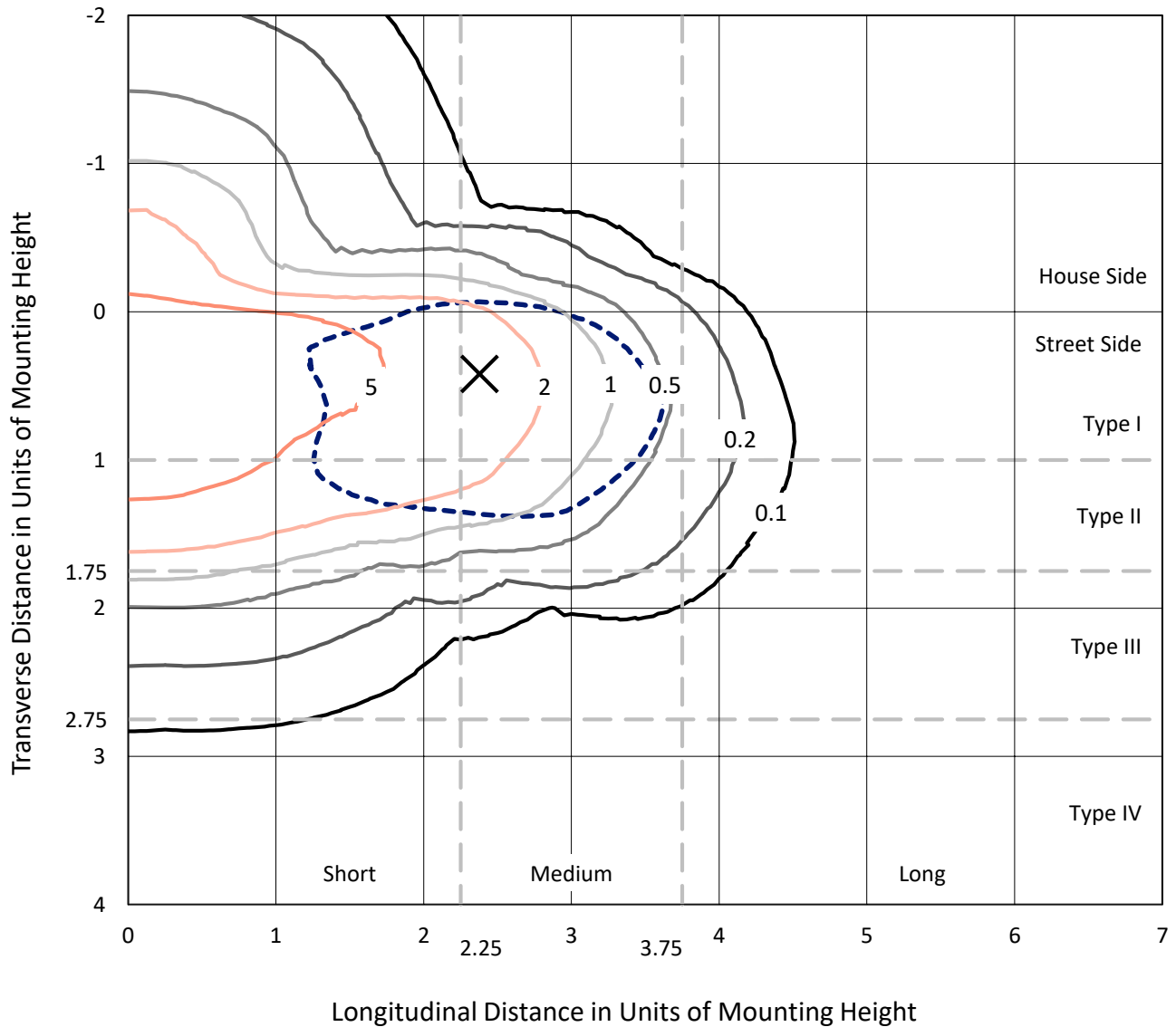


REPORT NUMBER: P269660

CATALOG NUMBER: GLEON-AF-09-LED-E1-T2-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

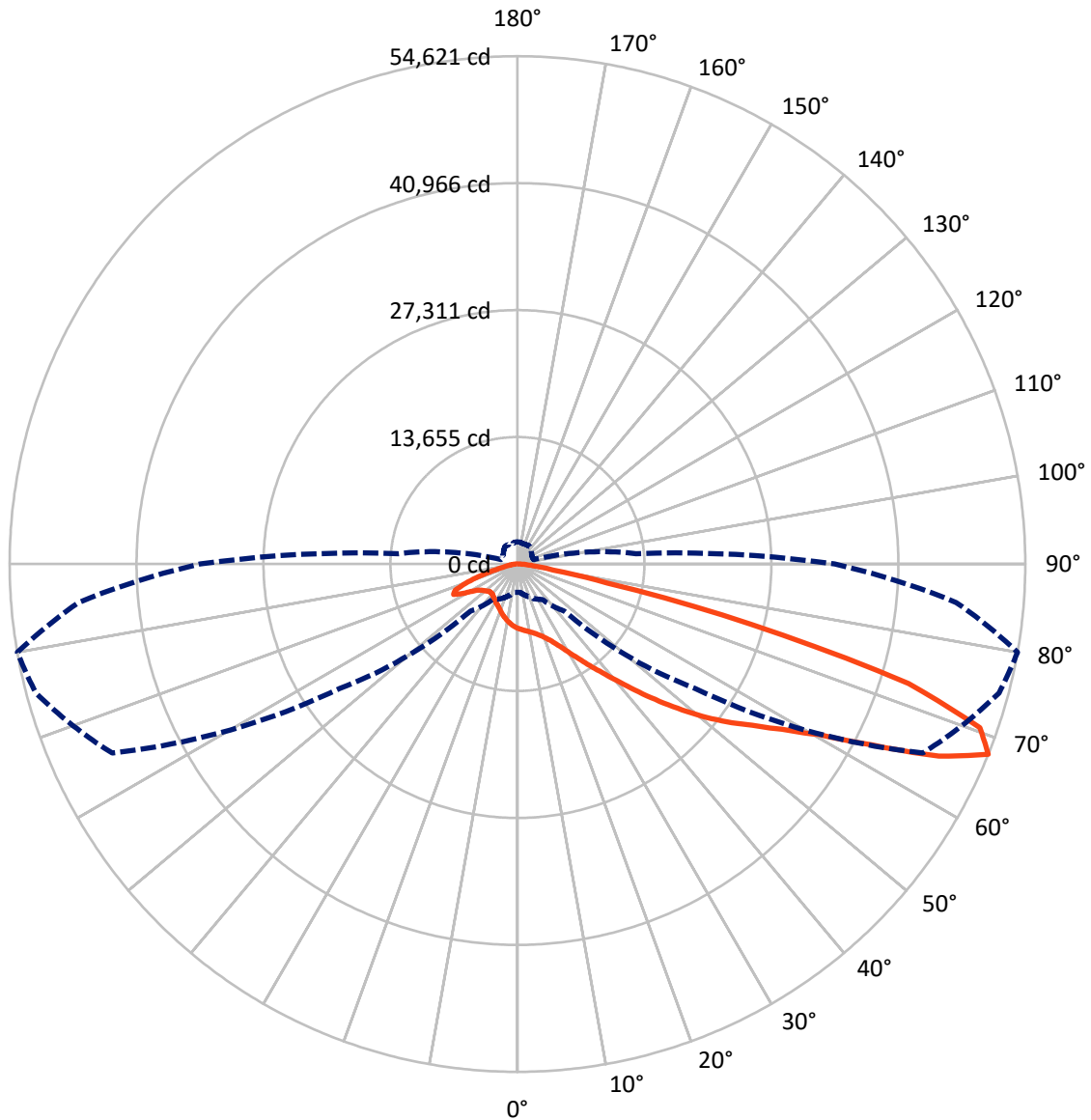


Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269660

CATALOG NUMBER: GLEON-AF-09-LED-E1-T2-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269660

CATALOG NUMBER: GLEON-AF-09-LED-E1-T2-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9165.9	0.0	9165.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	40605.0	0.0	40605.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	49770.9	0.0	49770.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.8	1.3
10°-20°	1837.4	3.7
20°-30°	3041.4	6.1
30°-40°	4974.9	10.0
40°-50°	8032.5	16.1
50°-60°	11596.5	23.3
60°-70°	12797.5	25.7
70°-80°	5898.8	11.9
80°-90°	954.1	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°	49770.9	100.0
0°-180°	49770.9	100.0



REPORT NUMBER: P269660

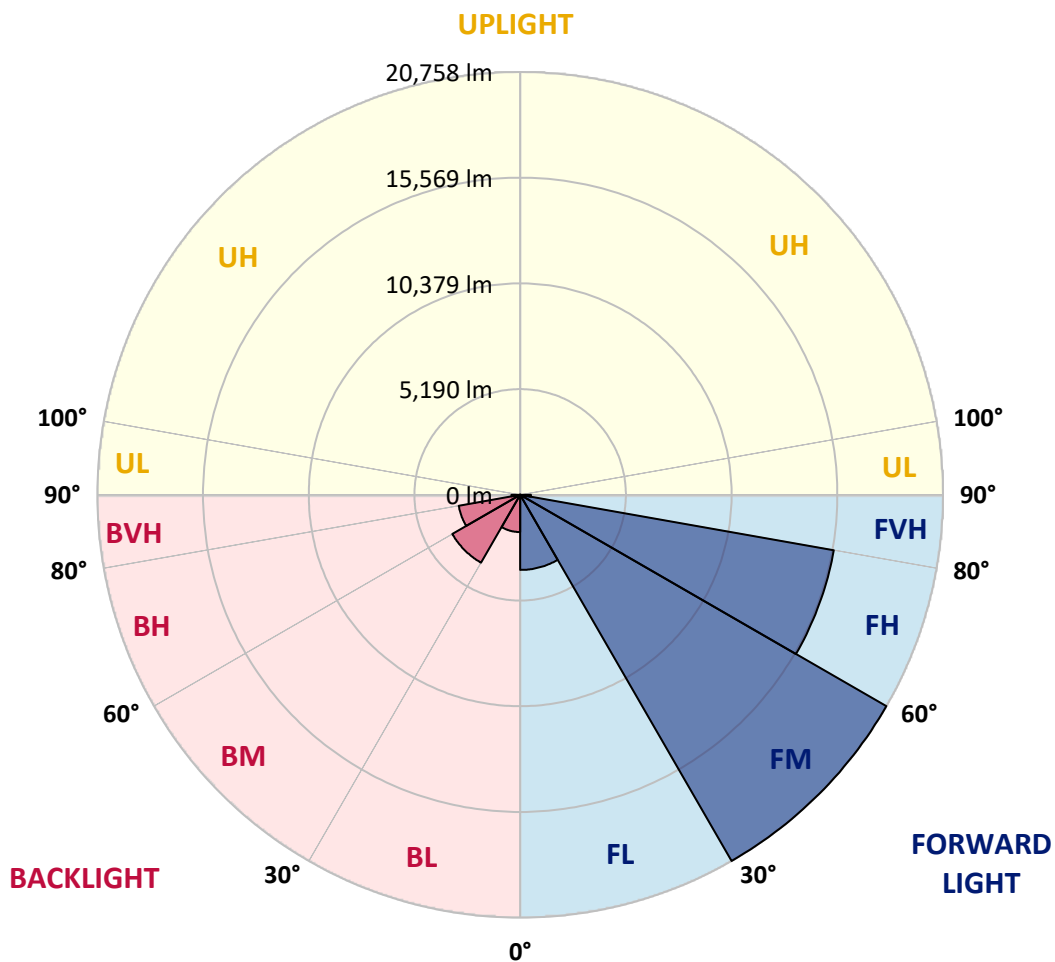
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3687.9	7.4			
FM (30°-60°)	20758.2	41.7			
FH (60°-80°)	15634.3	31.4			G5
FVH (80°-90°)	524.6	1.1			G4/750
BL (0°-30°)	1828.7	3.7	B3/2500		
BM (30°-60°)	3845.7	7.7	B3/5000		
BH (60°-80°)	3062.0	6.2	B4/5000		G4/5000
BVH (80°-90°)	429.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





REPORT NUMBER: P269660

CATALOG NUMBER: GLEON-AF-09-LED-E1-T2-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7
2.5°	7564.0	7519.8	7527.2	7515.0	7478.2	7414.5	7345.9	7220.9	7091.0	7022.4	6968.5
5°	8196.1	8183.9	8166.8	8127.5	8034.4	7902.1	7737.9	7517.3	7279.8	7154.7	7034.6
7.5°	8669.1	8661.6	8639.5	8615.1	8524.5	8365.1	8117.8	7804.0	7458.5	7287.1	7100.8
10°	8708.2	8720.4	8737.6	8803.7	8816.1	8730.3	8477.9	8098.1	7644.8	7424.3	7186.6
12.5°	8375.0	8401.9	8468.1	8637.2	8816.1	8921.3	8791.5	8406.9	7862.9	7595.8	7294.3
15°	7933.9	7948.7	8029.5	8262.3	8583.2	8909.1	9031.6	8747.4	8144.7	7816.3	7456.1
17.5°	7745.2	7752.6	7809.0	7963.4	8262.3	8727.8	9166.5	9117.3	8490.2	8090.8	7654.5
20°	7649.6	7666.9	7747.7	7899.6	8088.2	8495.0	9186.0	9516.9	8901.8	8433.7	7904.5
22.5°	7921.8	7914.3	7943.7	8019.7	8179.0	8423.9	9171.3	9928.4	9426.2	8874.9	8230.5
25°	8556.3	8583.2	8531.8	8446.0	8497.4	8669.1	9249.7	10374.3	10082.8	9440.8	8656.7
27.5°	9460.4	9433.6	9357.6	9156.7	9051.2	9124.8	9509.5	10854.6	10898.7	10185.7	9220.4
30°	10362.2	10340.1	10266.5	10021.5	9806.0	9744.6	10014.2	11406.0	11871.6	11080.1	9911.3
32.5°	11298.2	11273.5	11205.0	10960.0	10700.3	10558.1	10732.1	12042.9	13018.1	12148.4	10724.8
35°	12452.2	12405.7	12261.1	11920.5	11665.7	11555.3	11636.3	12844.2	14341.4	13412.8	11712.2
37.5°	13537.6	13608.8	13461.7	12991.3	12660.5	12621.2	12711.9	13822.0	15767.4	14826.5	12846.8
40°	14628.0	14640.2	14507.9	14123.3	13782.8	13718.9	13946.8	15007.9	17450.7	16517.1	14226.2
42.5°	15755.2	15779.6	15556.7	15201.4	14951.5	14963.7	15223.4	16397.1	19381.6	18509.2	15813.9
45°	17090.6	17127.4	16882.2	16416.7	16188.8	16647.1	16539.2	17955.5	21498.5	20773.2	17637.0
47.5°	18487.2	18543.5	18357.4	17921.1	17637.0	18266.7	17855.0	19682.9	23777.2	23201.6	19638.8
50°	19249.2	19330.1	19511.4	19479.6	19418.3	19312.9	19322.7	21535.2	26127.2	25730.2	21697.0
52.5°	18840.1	18837.5	19499.1	20302.9	21160.5	21224.2	21111.4	23488.3	28322.5	28202.5	23635.1
55°	16968.1	17095.5	18097.7	19653.5	21996.0	23458.8	23792.0	25725.2	30478.8	30618.4	25602.8
57.5°	13851.3	13956.6	15309.3	17477.8	20868.9	24786.8	27604.6	28976.7	32889.9	33541.5	28222.1
60°	9394.3	9521.8	10955.1	13559.7	17835.4	24046.8	31233.4	34779.0	35776.2	37258.6	31897.5
62.5°	5520.4	5635.5	6804.4	8553.8	12557.5	20609.2	32826.1	43033.8	40360.7	42867.3	37503.7
65°	3800.4	3878.7	4447.1	5324.4	7216.1	13880.7	30851.2	48733.2	47415.0	49816.1	44004.3
67.5°	3057.9	3048.0	3499.0	4096.8	4645.7	7157.2	23329.0	48088.7	53619.0	54621.1	47378.1
70°	2518.8	2509.1	2815.4	3310.3	3712.2	4030.6	12707.1	40581.2	52354.7	52761.4	44271.3
72.5°	2107.2	2117.0	2313.0	2680.6	3045.7	3035.9	5584.1	28548.0	41186.4	43999.3	35291.1
75°	1779.0	1783.8	1913.7	2173.4	2472.3	2445.4	3028.5	15465.9	23941.4	25899.3	19562.8
77.5°	1514.3	1519.2	1602.4	1747.1	1960.2	1950.4	2210.1	6681.9	9987.3	9864.7	6691.7
80°	1350.2	1350.2	1389.3	1416.3	1533.9	1489.7	1639.2	3209.9	4221.9	3898.4	2670.8
82.5°	1058.6	1063.5	1303.5	1293.6	1208.0	1151.6	1151.6	1891.7	2237.0	2068.0	1563.3
85°	595.3	593.1	840.5	1014.4	1063.5	811.0	803.7	1058.6	1217.8	1073.3	757.1
87.5°	254.8	259.7	389.5	450.9	602.8	504.8	497.4	546.3	619.9	536.6	350.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269660

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7	6914.7
2.5°	6917.0	6853.3	6713.8	6539.8	6382.9	6280.1	6186.8	6052.2	6059.4	5966.5	5897.8
5°	6912.2	6779.9	6456.5	6071.7	5701.7	5434.7	5233.7	5052.4	5008.3	4922.5	4871.1
7.5°	6917.0	6701.4	6157.5	5542.5	5084.2	4746.1	4574.6	4479.0	4457.0	4427.7	4430.1
10°	6934.2	6630.4	5829.1	5047.5	4567.3	4344.4	4302.6	4332.0	4366.3	4376.2	4378.6
12.5°	6973.5	6566.7	5469.1	4606.5	4243.9	4175.2	4246.3	4346.8	4413.0	4444.8	4442.3
15°	7061.7	6517.7	5123.6	4261.0	4065.0	4101.8	4234.0	4376.2	4471.8	4515.8	4518.3
17.5°	7157.2	6446.6	4768.3	3996.4	3932.7	4025.8	4190.0	4356.6	4474.2	4523.1	4532.9
20°	7282.2	6358.5	4395.8	3797.9	3807.6	3913.0	4067.4	4234.0	4363.8	4405.6	4425.2
22.5°	7446.3	6262.9	4070.0	3636.2	3665.5	3746.4	3866.6	4011.1	4123.8	4143.4	4160.5
25°	7666.9	6159.9	3810.2	3489.1	3501.5	3547.9	3628.9	3714.6	3793.1	3770.9	3788.2
27.5°	7963.4	6071.7	3616.5	3354.5	3332.4	3342.1	3383.8	3410.8	3452.5	3391.1	3398.5
30°	8311.3	5976.2	3467.1	3236.9	3175.6	3158.4	3168.2	3182.9	3214.8	3131.4	3119.2
32.5°	8715.5	5861.0	3327.4	3133.8	3048.0	3013.9	3018.8	3057.9	3180.4	3128.9	3102.0
35°	9186.0	5731.1	3180.4	3021.2	2962.4	2913.4	2908.4	3031.1	3396.0	3364.2	3339.7
37.5°	9737.3	5601.3	3033.4	2893.8	2898.7	2844.8	2827.5	2967.2	3437.8	3312.8	3295.6
40°	10438.0	5532.8	2908.4	2759.0	2820.3	2813.0	2778.5	2849.7	3163.3	2935.4	2905.9
42.5°	11305.4	5542.5	2815.4	2614.4	2727.2	2805.5	2751.7	2754.2	2866.9	2695.3	2668.3
45°	12376.3	5657.6	2749.3	2499.3	2621.8	2798.2	2741.8	2702.6	2712.4	2621.8	2607.2
47.5°	13625.9	5895.3	2702.6	2403.8	2521.4	2771.2	2739.4	2687.9	2665.9	2616.9	2604.6
50°	15015.2	6240.9	2668.3	2313.0	2430.6	2727.2	2741.8	2673.3	2648.7	2629.1	2621.8
52.5°	16380.0	6635.3	2616.9	2234.7	2359.6	2673.3	2749.3	2658.5	2631.6	2616.9	2609.5
55°	17901.7	7127.8	2538.5	2168.5	2300.7	2604.6	2749.3	2636.4	2607.2	2609.5	2607.2
57.5°	19957.4	7924.0	2445.4	2112.2	2229.8	2521.4	2702.6	2612.0	2575.3	2577.6	2580.1
60°	23169.7	9328.1	2332.7	2055.9	2141.5	2423.3	2639.0	2558.1	2521.4	2531.2	2533.6
62.5°	27893.7	11388.8	2185.7	1972.5	2048.4	2317.9	2550.6	2489.5	2452.7	2477.3	2477.3
65°	32804.0	13206.9	2004.3	1867.0	1950.4	2202.7	2440.4	2403.8	2366.9	2423.3	2420.8
67.5°	34124.8	12800.2	1823.0	1752.0	1852.3	2075.4	2308.1	2288.5	2268.8	2366.9	2362.1
70°	30314.7	10276.4	1656.4	1634.3	1744.6	1938.2	2166.1	2166.1	2153.7	2227.3	2210.1
72.5°	23096.1	7287.1	1497.1	1509.3	1622.1	1788.6	2011.7	2028.8	2009.1	2046.0	2031.2
75°	12364.0	4170.3	1337.8	1372.2	1470.2	1636.8	1840.2	1857.2	1845.1	1842.7	1849.9
77.5°	4109.0	2038.7	1171.2	1225.1	1310.8	1480.0	1661.2	1688.3	1658.8	1653.9	1651.4
80°	1830.3	1281.5	987.4	1058.6	1134.5	1301.0	1472.6	1494.7	1462.8	1506.8	1450.6
82.5°	1176.2	842.9	791.4	869.9	943.3	1122.3	1283.9	1288.9	1259.5	1462.8	1247.1
85°	571.0	521.9	595.3	666.5	730.2	882.0	1063.5	1065.8	992.4	904.1	872.3
87.5°	284.3	303.8	397.0	460.7	492.5	605.2	774.2	759.5	727.7	661.6	610.0
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)