

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: P192187

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192187
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-T2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57286 lumens
Efficiency: N/A
Efficacy: 99.6 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 (A_{in}): 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

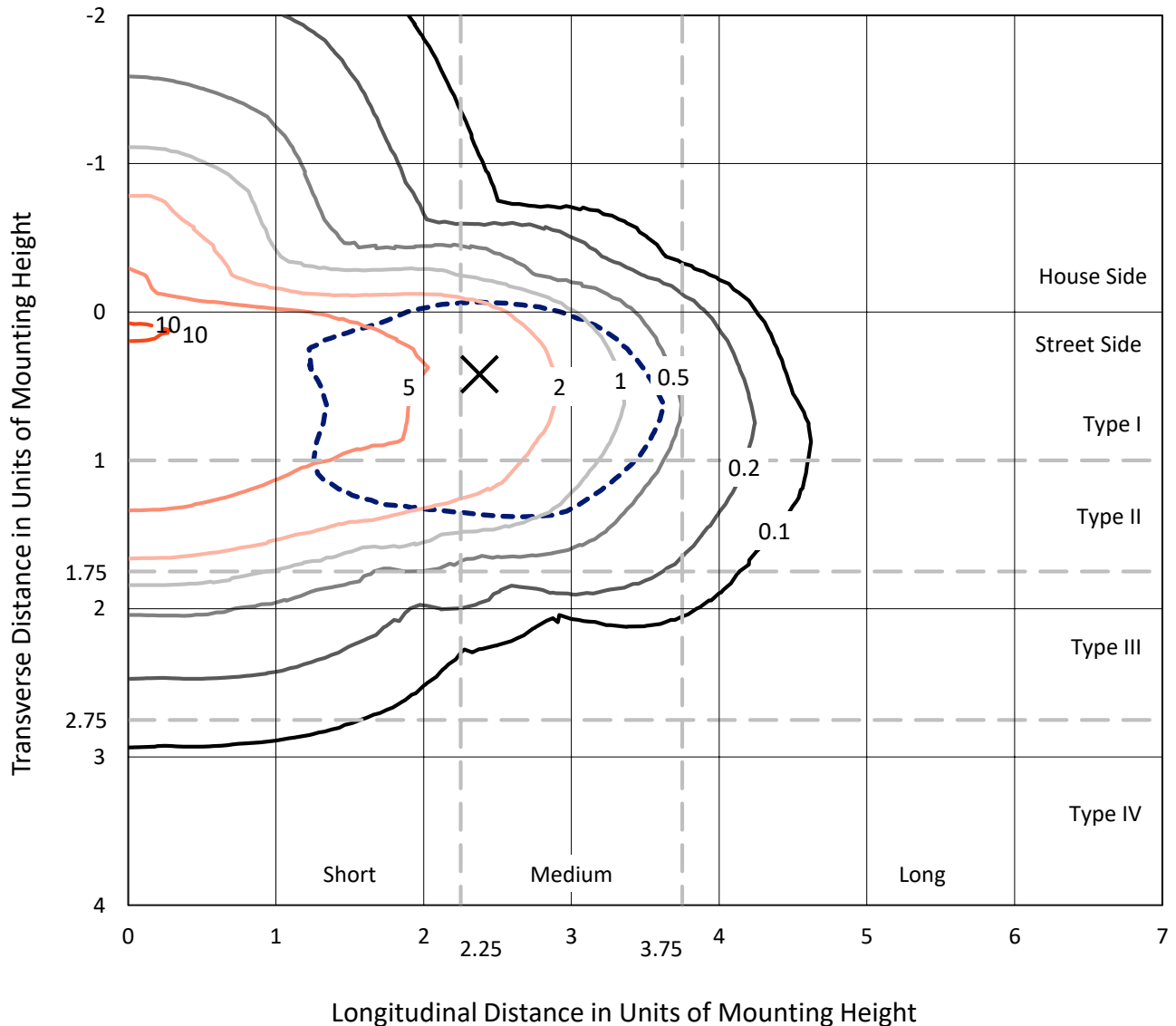


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Iso-Footcandle Lines of Horizontal Illumination

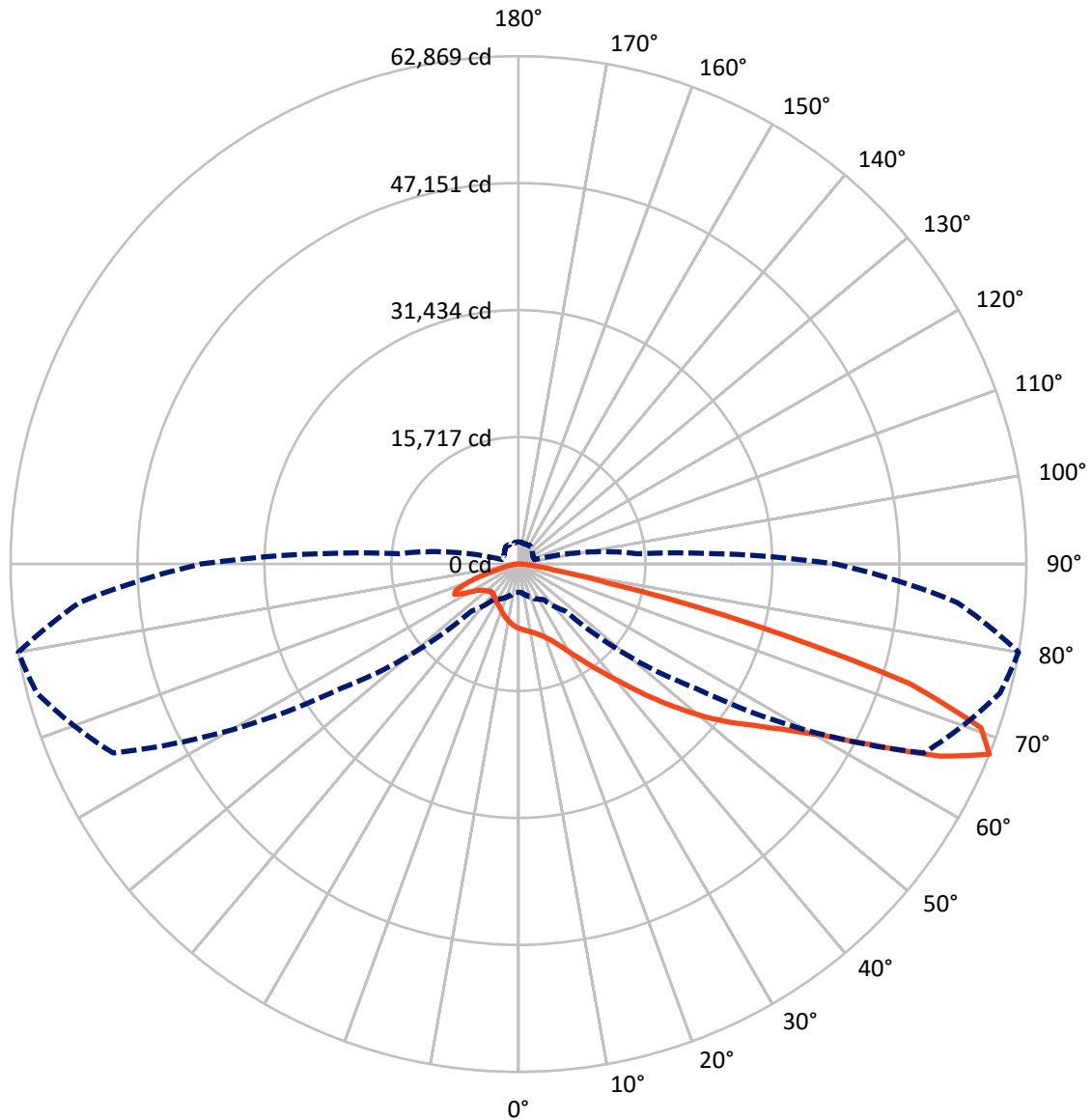
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10549.9	0.0	10549.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	46736.1	0.0	46736.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	57286.0	0.0	57286.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.2	1.3
10°-20°	2114.9	3.7
20°-30°	3500.6	6.1
30°-40°	5726.1	10.0
40°-50°	9245.3	16.1
50°-60°	13347.5	23.3
60°-70°	14729.8	25.7
70°-80°	6789.5	11.9
80°-90°	1098.2	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°	57286.0	100.0
0°-180°	57286.0	100.0



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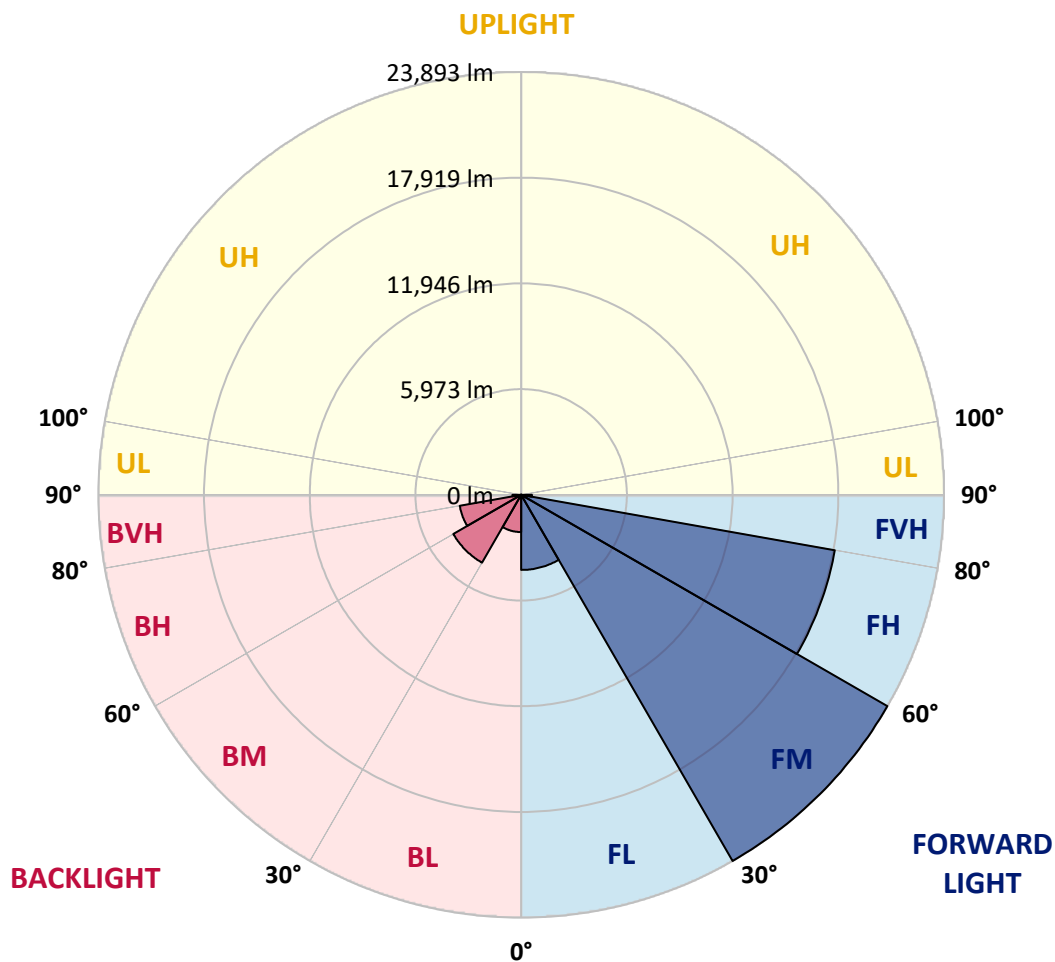
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4244.8	7.4			
FM (30°-60°)	23892.5	41.7			
FH (60°-80°)	17995.0	31.4			G5
FVH (80°-90°)	603.8	1.1			G4/750
BL (0°-30°)	2104.9	3.7	B3/2500		
BM (30°-60°)	4426.3	7.7	B3/5000		
BH (60°-80°)	3524.3	6.2	B4/5000		G4/5000
BVH (80°-90°)	494.4	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7
2.5°	8706.1	8655.3	8663.7	8649.6	8607.3	8534.0	8455.1	8311.2	8161.7	8082.8	8020.7
5°	9433.7	9419.6	9399.8	9354.7	9247.5	9095.2	8906.3	8652.5	8378.9	8235.1	8096.9
7.5°	9978.0	9969.5	9944.1	9915.9	9811.6	9628.3	9343.4	8982.4	8584.8	8387.4	8173.0
10°	10023.1	10037.2	10056.9	10133.1	10147.2	10048.5	9758.0	9320.9	8799.1	8545.3	8271.7
12.5°	9639.5	9670.6	9746.7	9941.3	10147.2	10268.5	10119.0	9676.2	9050.1	8742.7	8395.8
15°	9131.9	9148.8	9241.9	9509.8	9879.3	10254.4	10395.4	10068.2	9374.4	8996.5	8582.0
17.5°	8914.7	8923.2	8988.1	9165.8	9509.8	10045.7	10550.5	10494.1	9772.1	9312.4	8810.4
20°	8804.8	8824.5	8917.6	9092.4	9309.6	9777.7	10573.0	10953.8	10245.9	9707.2	9098.1
22.5°	9117.8	9109.3	9143.2	9230.6	9413.9	9696.0	10556.1	11427.6	10849.4	10214.9	9473.2
25°	9848.2	9879.3	9820.0	9721.3	9780.6	9978.0	10646.4	11940.9	11605.3	10866.3	9963.9
27.5°	10888.9	10857.9	10770.5	10539.2	10417.9	10502.5	10945.3	12493.6	12544.4	11723.7	10612.5
30°	11926.8	11901.4	11816.8	11534.7	11286.6	11216.1	11526.3	13128.2	13664.0	12753.1	11407.8
32.5°	13004.1	12975.9	12896.9	12614.9	12315.9	12152.4	12352.6	13861.4	14983.9	13982.7	12344.2
35°	14332.4	14278.8	14112.4	13720.4	13427.1	13300.2	13393.3	14783.7	16506.8	15437.9	13480.7
37.5°	15581.8	15663.6	15494.3	14952.9	14572.1	14527.0	14631.4	15908.9	18148.2	17065.2	14786.5
40°	16836.8	16850.9	16698.6	16255.8	15863.8	15790.5	16052.8	17273.9	20085.7	19011.2	16374.3
42.5°	18134.1	18162.3	17905.6	17496.7	17209.0	17223.1	17522.1	18873.0	22308.0	21304.0	18201.8
45°	19671.1	19713.4	19431.4	18895.5	18633.3	19160.6	19036.6	20666.7	24744.7	23909.9	20300.0
47.5°	21278.6	21343.5	21129.2	20627.2	20300.0	21024.8	20551.0	22654.9	27367.5	26704.8	22604.2
50°	22155.7	22248.8	22457.5	22420.8	22350.3	22229.1	22240.3	24787.0	30072.1	29615.2	24973.1
52.5°	21684.8	21681.9	22443.4	23368.4	24355.5	24428.8	24299.1	27034.7	32599.0	32460.9	27203.9
55°	19530.1	19676.8	20830.2	22621.1	25317.2	27000.9	27384.4	29609.6	35080.9	35241.6	29468.6
57.5°	15942.8	16064.0	17620.8	20116.7	24019.9	28529.5	31772.7	33352.1	37856.0	38606.1	32483.4
60°	10812.8	10959.4	12609.3	15607.2	20528.5	27677.7	35949.5	40030.4	41178.2	42884.4	36713.8
62.5°	6354.0	6486.5	7831.8	9845.4	14453.7	23721.0	37782.6	49531.7	46454.8	49339.9	43166.5
65°	4374.2	4464.4	5118.7	6128.4	8305.6	15976.6	35509.5	56091.6	54574.3	57338.1	50648.5
67.5°	3519.6	3508.4	4027.3	4715.4	5347.2	8237.9	26851.4	55349.9	61715.1	62868.6	54532.0
70°	2899.2	2887.9	3240.4	3810.1	4272.6	4639.3	14625.7	46708.7	60259.9	60728.0	50955.9
72.5°	2425.4	2436.7	2662.3	3085.3	3505.5	3494.3	6427.3	32858.5	47405.3	50642.9	40619.8
75°	2047.5	2053.1	2202.6	2501.5	2845.6	2814.6	3485.8	17801.3	27556.5	29809.8	22516.7
77.5°	1742.9	1748.5	1844.4	2010.8	2256.2	2244.9	2543.8	7690.8	11495.3	11354.2	7702.1
80°	1553.9	1553.9	1599.1	1630.1	1765.5	1714.7	1886.7	3694.5	4859.3	4487.0	3074.1
82.5°	1218.3	1224.0	1500.4	1489.1	1390.4	1325.5	1325.5	2177.2	2574.9	2380.3	1799.3
85°	685.3	682.5	967.3	1167.6	1224.0	933.5	925.0	1218.3	1401.7	1235.3	871.5
87.5°	293.3	298.9	448.4	518.9	693.8	581.0	572.5	628.9	713.5	617.6	403.3
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°	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7	7958.7
2.5°	7961.5	7888.2	7727.4	7527.2	7346.7	7228.3	7121.1	6966.0	6974.4	6867.3	6788.3
5°	7955.9	7803.6	7431.3	6988.5	6562.7	6255.3	6024.0	5815.3	5764.6	5665.8	5606.6
7.5°	7961.5	7713.3	7087.2	6379.4	5852.0	5462.8	5265.4	5155.4	5130.0	5096.2	5099.0
10°	7981.3	7631.5	6709.3	5809.7	5256.9	5000.3	4952.3	4986.2	5025.7	5036.9	5039.8
12.5°	8026.4	7558.2	6294.8	5302.0	4884.6	4805.7	4887.5	5003.1	5079.2	5115.9	5113.1
15°	8127.9	7501.8	5897.1	4904.4	4678.8	4721.1	4873.4	5036.9	5146.9	5197.7	5200.5
17.5°	8237.9	7420.0	5488.2	4599.8	4526.5	4633.6	4822.6	5014.4	5149.7	5206.1	5217.4
20°	8381.7	7318.5	5059.5	4371.4	4382.6	4503.9	4681.6	4873.4	5022.8	5070.8	5093.3
22.5°	8570.7	7208.5	4684.4	4185.2	4219.1	4312.1	4450.3	4616.7	4746.4	4769.0	4788.8
25°	8824.5	7090.1	4385.5	4016.0	4030.1	4083.7	4176.8	4275.5	4365.7	4340.3	4360.1
27.5°	9165.8	6988.5	4162.7	3860.9	3835.5	3846.8	3894.7	3925.8	3973.7	3903.2	3911.7
30°	9566.2	6878.5	3990.6	3725.5	3655.0	3635.3	3646.6	3663.5	3700.1	3604.3	3590.2
32.5°	10031.6	6746.0	3829.9	3607.1	3508.4	3468.9	3474.5	3519.6	3660.7	3601.4	3570.4
35°	10573.0	6596.5	3660.7	3477.3	3409.7	3353.3	3347.6	3488.6	3908.8	3872.2	3844.0
37.5°	11207.6	6447.0	3491.4	3330.7	3336.3	3274.3	3254.5	3415.3	3956.8	3813.0	3793.2
40°	12014.2	6368.1	3347.6	3175.6	3246.1	3237.6	3198.1	3279.9	3640.9	3378.6	3344.8
42.5°	13012.5	6379.4	3240.4	3009.2	3138.9	3229.2	3167.1	3169.9	3299.7	3102.3	3071.2
45°	14245.0	6511.9	3164.3	2876.6	3017.6	3220.7	3155.8	3110.7	3122.0	3017.6	3000.7
47.5°	15683.3	6785.5	3110.7	2766.6	2902.0	3189.7	3153.0	3093.8	3068.4	3012.0	2997.9
50°	17282.4	7183.1	3071.2	2662.3	2797.7	3138.9	3155.8	3076.9	3048.7	3026.1	3017.6
52.5°	18853.2	7637.2	3012.0	2572.1	2715.9	3076.9	3164.3	3060.0	3028.9	3012.0	3003.5
55°	20604.6	8204.1	2921.8	2495.9	2648.2	2997.9	3164.3	3034.6	3000.7	3003.5	3000.7
57.5°	22970.8	9120.6	2814.6	2431.0	2566.4	2902.0	3110.7	3006.4	2964.1	2966.9	2969.7
60°	26668.1	10736.6	2684.9	2366.2	2464.9	2789.2	3037.4	2944.3	2902.0	2913.3	2916.1
62.5°	32105.5	13108.4	2515.6	2270.3	2357.7	2667.9	2935.9	2865.4	2823.1	2851.3	2851.3
65°	37757.3	15201.0	2306.9	2149.0	2244.9	2535.4	2808.9	2766.6	2724.3	2789.2	2786.4
67.5°	39277.4	14732.9	2098.3	2016.5	2132.1	2388.7	2656.7	2634.1	2611.5	2724.3	2718.7
70°	34891.9	11828.0	1906.5	1881.1	2008.0	2230.8	2493.1	2493.1	2479.0	2563.6	2543.8
72.5°	26583.5	8387.4	1723.2	1737.3	1867.0	2058.8	2315.4	2335.2	2312.6	2354.9	2338.0
75°	14230.9	4800.0	1539.8	1579.3	1692.1	1883.9	2118.0	2137.7	2123.6	2120.8	2129.3
77.5°	4729.5	2346.4	1348.1	1410.1	1508.8	1703.4	1912.1	1943.1	1909.3	1903.7	1900.8
80°	2106.7	1475.0	1136.6	1218.3	1305.8	1497.5	1695.0	1720.3	1683.7	1734.4	1669.6
82.5°	1353.7	970.2	910.9	1001.2	1085.8	1291.7	1477.8	1483.4	1449.6	1683.7	1435.5
85°	657.1	600.7	685.3	767.1	840.4	1015.3	1224.0	1226.8	1142.2	1040.7	1004.0
87.5°	327.1	349.7	456.9	530.2	566.9	696.6	891.2	874.3	837.6	761.5	702.2
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)