

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: P192188

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192188
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-10-LED-E1-T2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 63424 lumens
Efficiency: N/A
Efficacy: 99.1 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): 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

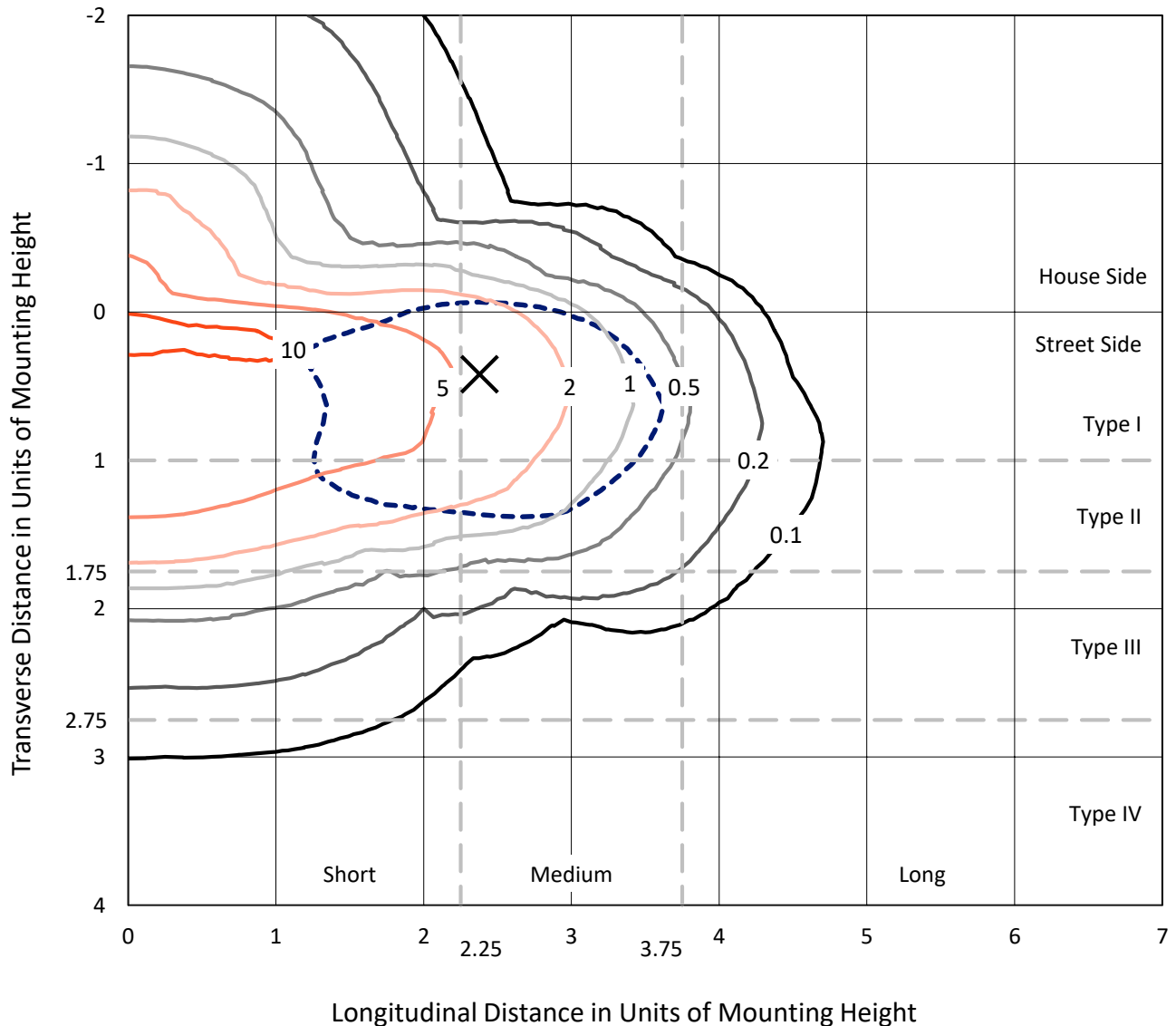


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

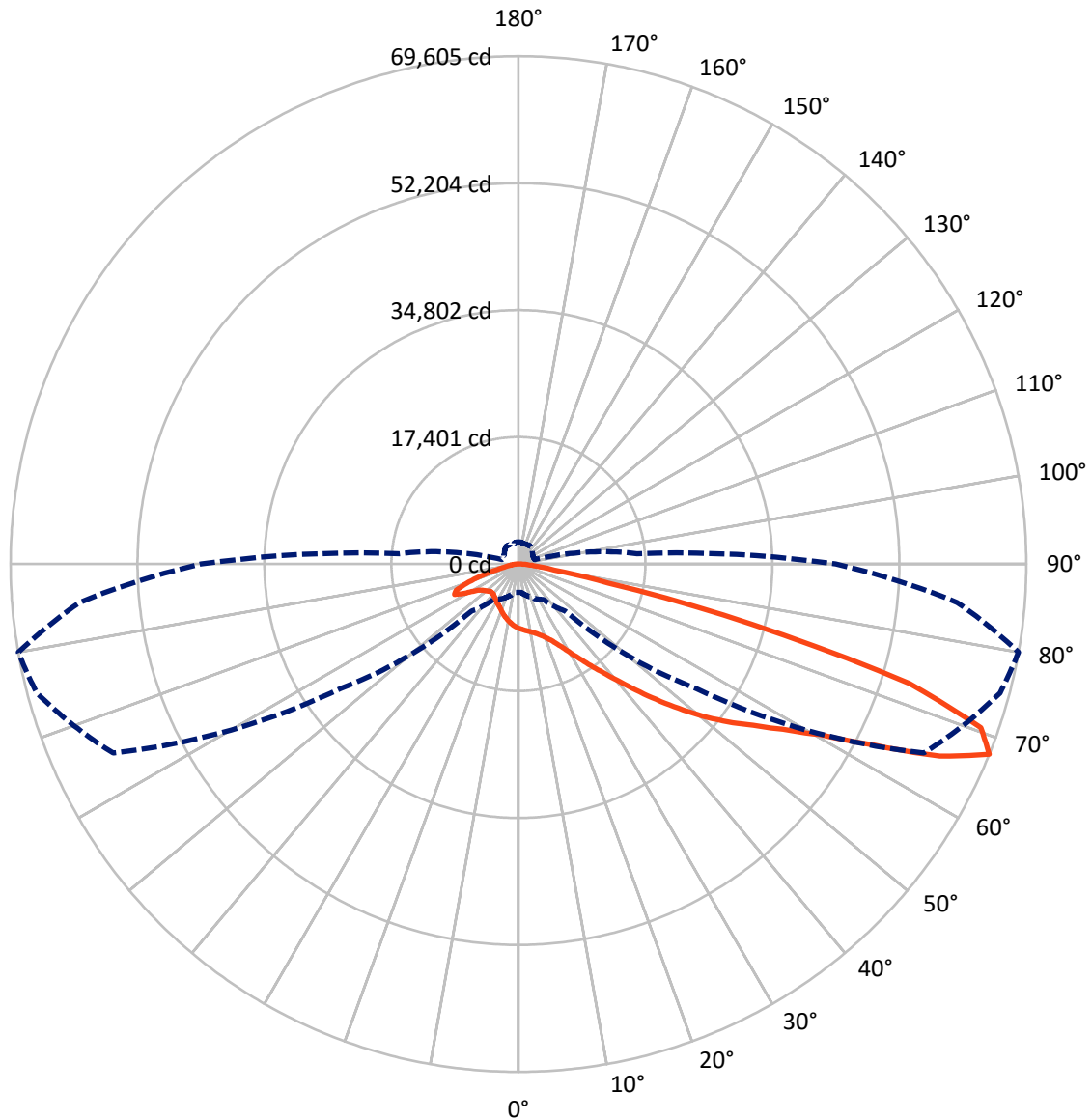


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - Full Cutoff

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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	11680.3	0.0	11680.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	51743.7	0.0	51743.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	63424.0	0.0	63424.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.8	1.3
10°-20°	2341.5	3.7
20°-30°	3875.7	6.1
30°-40°	6339.6	10.0
40°-50°	10235.9	16.1
50°-60°	14777.7	23.3
60°-70°	16308.0	25.7
70°-80°	7517.0	11.9
80°-90°	1215.8	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°	63424.0	100.0
0°-180°	63424.0	100.0



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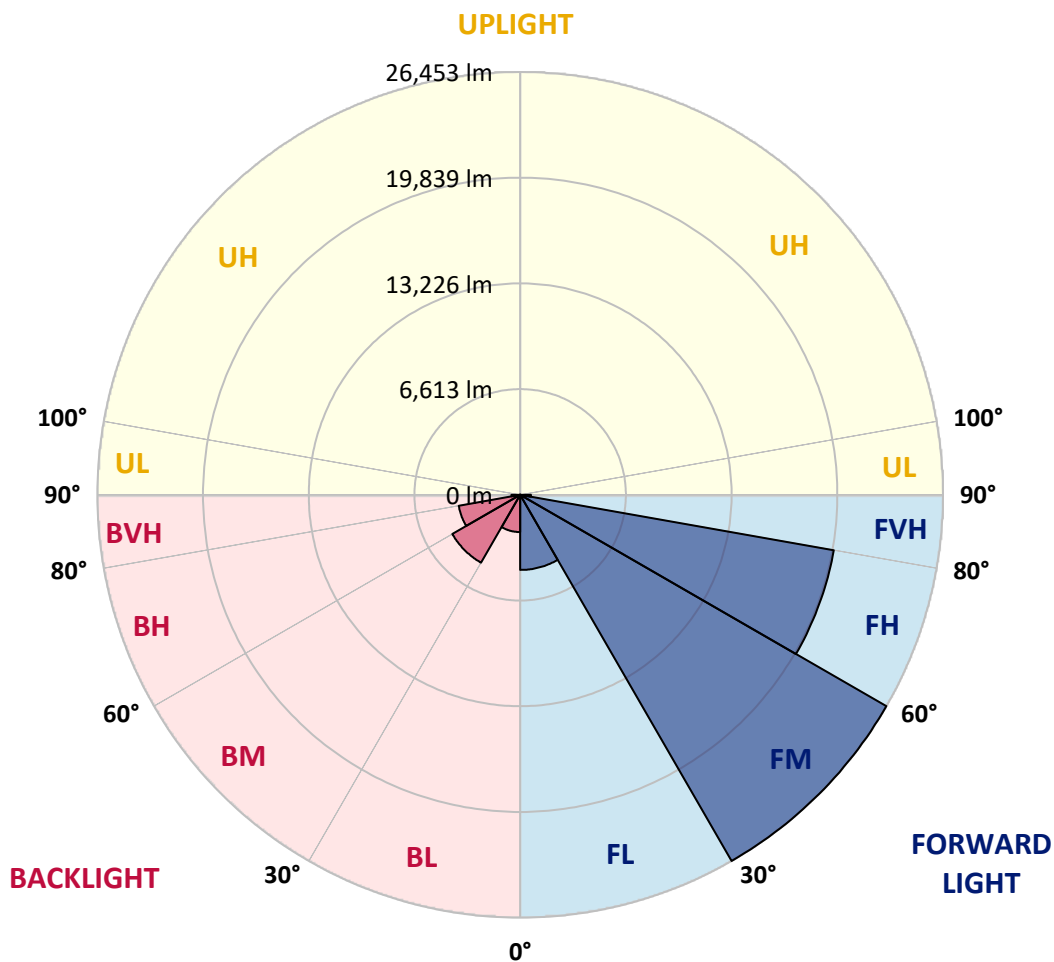
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4699.6	7.4			
FM (30°-60°)	26452.5	41.7			
FH (60°-80°)	19923.1	31.4			G5
FVH (80°-90°)	668.4	1.1			G4/750
BL (0°-30°)	2330.4	3.7	B3/2500		
BM (30°-60°)	4900.6	7.7	B3/5000		
BH (60°-80°)	3901.9	6.2	B4/5000		G4/5000
BVH (80°-90°)	547.4	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4
2.5°	9638.9	9582.7	9592.0	9576.4	9529.6	9448.4	9361.0	9201.7	9036.3	8948.8	8880.1
5°	10444.5	10428.8	10407.0	10357.0	10238.4	10069.8	9860.6	9579.6	9276.7	9117.4	8964.4
7.5°	11047.1	11037.7	11009.6	10978.4	10862.9	10659.9	10344.5	9944.9	9504.6	9286.0	9048.7
10°	11097.0	11112.7	11134.5	11218.8	11234.4	11125.1	10803.5	10319.6	9741.9	9460.9	9158.0
12.5°	10672.4	10706.7	10791.0	11006.5	11234.4	11368.7	11203.2	10713.0	10019.8	9679.5	9295.4
15°	10110.4	10129.1	10232.1	10528.8	10937.8	11353.1	11509.2	11147.0	10378.9	9960.5	9501.5
17.5°	9869.9	9879.3	9951.1	10147.8	10528.8	11122.0	11680.9	11618.5	10819.1	10310.2	9754.4
20°	9748.2	9770.0	9873.1	10066.6	10307.1	10825.4	11705.9	12127.4	11343.7	10747.3	10072.9
22.5°	10094.7	10085.4	10122.9	10219.6	10422.6	10734.8	11687.2	12652.0	12011.9	11309.4	10488.2
25°	10903.5	10937.8	10872.2	10762.9	10828.5	11047.1	11787.1	13220.3	12848.7	12030.6	11031.5
27.5°	12055.6	12021.3	11924.5	11668.4	11534.2	11627.9	12118.1	13832.3	13888.5	12979.9	11749.6
30°	13204.7	13176.6	13082.9	12770.7	12495.9	12417.8	12761.3	14534.8	15128.1	14119.5	12630.1
32.5°	14397.4	14366.2	14278.8	13966.5	13635.6	13454.5	13676.2	15346.6	16589.4	15480.9	13666.8
35°	15868.1	15808.8	15624.5	15190.5	14865.8	14725.3	14828.3	16367.7	18275.5	17092.1	14925.1
37.5°	17251.3	17341.9	17154.5	16555.0	16133.5	16083.5	16199.1	17613.5	20092.7	18893.7	16370.8
40°	18640.8	18656.4	18487.8	17997.6	17563.6	17482.4	17772.8	19124.8	22237.8	21048.2	18128.7
42.5°	20077.1	20108.3	19824.2	19371.4	19052.9	19068.6	19399.5	20895.2	24698.3	23586.7	20152.0
45°	21778.8	21825.6	21513.4	20920.1	20629.8	21213.6	21076.3	22881.0	27396.0	26471.8	22475.1
47.5°	23558.6	23630.4	23393.1	22837.3	22475.1	23277.6	22753.0	25082.3	30299.9	29566.1	25026.1
50°	24529.6	24632.7	24863.7	24823.2	24745.1	24610.8	24623.3	27442.9	33294.2	32788.4	27648.9
52.5°	24008.2	24005.1	24848.1	25872.3	26965.1	27046.3	26902.7	29931.4	36091.9	35938.9	30118.8
55°	21622.7	21785.0	23062.1	25044.8	28029.9	29893.9	30318.6	32782.2	38839.6	39017.6	32626.1
57.5°	17651.0	17785.2	19508.8	22272.1	26593.6	31586.3	35177.1	36925.6	41912.1	42742.7	35963.9
60°	11971.3	12133.7	13960.3	17279.4	22728.0	30643.3	39801.3	44319.5	45590.3	47479.4	40647.5
62.5°	7034.8	7181.5	8670.9	10900.3	16002.3	26262.6	41830.9	54838.9	51432.3	54626.5	47791.6
65°	4842.9	4942.8	5667.2	6785.0	9195.5	17688.4	39314.3	62101.6	60421.7	63481.7	56075.3
67.5°	3896.8	3884.3	4458.8	5220.7	5920.1	9120.6	29728.5	61280.4	68327.7	69604.7	60374.9
70°	3209.8	3197.3	3587.6	4218.4	4730.4	5136.4	16192.8	51713.3	66716.5	67234.8	56415.7
72.5°	2685.3	2697.8	2947.6	3415.9	3881.2	3868.7	7116.0	36379.2	52484.6	56069.1	44972.1
75°	2266.9	2273.1	2438.6	2769.6	3150.5	3116.2	3859.3	19708.6	30509.1	33003.9	24929.3
77.5°	1929.6	1935.9	2042.1	2226.3	2497.9	2485.4	2816.4	8514.8	12726.9	12570.8	8527.3
80°	1720.4	1720.4	1770.4	1804.8	1954.6	1898.4	2088.9	4090.4	5379.9	4967.8	3403.4
82.5°	1348.9	1355.1	1661.1	1648.6	1539.3	1467.5	1467.5	2410.5	2850.8	2635.3	1992.1
85°	758.7	755.6	1071.0	1292.7	1355.1	1033.5	1024.2	1348.9	1551.8	1367.6	964.8
87.5°	324.7	331.0	496.5	574.5	768.1	643.2	633.8	696.3	790.0	683.8	446.5
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°	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4	8811.4
2.5°	8814.6	8733.4	8555.4	8333.7	8133.9	8002.7	7884.1	7712.4	7721.7	7603.1	7515.6
5°	8808.3	8639.7	8227.5	7737.3	7265.8	6925.5	6669.5	6438.4	6382.2	6272.9	6207.3
7.5°	8814.6	8539.8	7846.6	7062.9	6479.0	6048.1	5829.5	5707.8	5679.7	5642.2	5645.3
10°	8836.4	8449.2	7428.2	6432.2	5820.2	5536.0	5483.0	5520.4	5564.1	5576.6	5579.7
12.5°	8886.4	8368.1	6969.2	5870.1	5408.0	5320.6	5411.1	5539.2	5623.5	5664.0	5660.9
15°	8998.8	8305.6	6529.0	5429.9	5180.1	5226.9	5395.5	5576.6	5698.4	5754.6	5757.7
17.5°	9120.6	8215.1	6076.2	5092.6	5011.5	5130.1	5339.3	5551.6	5701.5	5764.0	5776.5
20°	9279.8	8102.7	5601.6	4839.7	4852.2	4986.5	5183.2	5395.5	5561.0	5614.1	5639.1
22.5°	9489.0	7980.9	5186.3	4633.7	4671.1	4774.2	4927.2	5111.4	5255.0	5280.0	5301.9
25°	9770.0	7849.7	4855.3	4446.3	4461.9	4521.2	4624.3	4733.6	4833.5	4805.4	4827.2
27.5°	10147.8	7737.3	4608.7	4274.6	4246.5	4259.0	4312.0	4346.4	4399.5	4321.4	4330.8
30°	10591.2	7615.6	4418.2	4124.7	4046.6	4024.8	4037.3	4056.0	4096.6	3990.4	3974.8
32.5°	11106.4	7468.8	4240.2	3993.6	3884.3	3840.6	3846.8	3896.8	4052.9	3987.3	3953.0
35°	11705.9	7303.3	4052.9	3849.9	3775.0	3712.5	3706.3	3862.4	4327.7	4287.1	4255.8
37.5°	12408.5	7137.8	3865.5	3687.6	3693.8	3625.1	3603.3	3781.2	4380.7	4221.5	4199.6
40°	13301.5	7050.4	3706.3	3515.8	3593.9	3584.5	3540.8	3631.4	4031.0	3740.6	3703.2
42.5°	14406.8	7062.9	3587.6	3331.6	3475.2	3575.2	3506.5	3509.6	3653.2	3434.6	3400.3
45°	15771.3	7209.6	3503.3	3184.9	3341.0	3565.8	3494.0	3444.0	3456.5	3341.0	3322.2
47.5°	17363.7	7512.5	3444.0	3063.1	3213.0	3531.4	3490.9	3425.3	3397.2	3334.7	3319.1
50°	19134.1	7952.8	3400.3	2947.6	3097.4	3475.2	3494.0	3406.5	3375.3	3350.3	3341.0
52.5°	20873.3	8455.5	3334.7	2847.6	3006.9	3406.5	3503.3	3387.8	3353.5	3334.7	3325.4
55°	22812.3	9083.1	3234.8	2763.3	2931.9	3319.1	3503.3	3359.7	3322.2	3325.4	3322.2
57.5°	25432.0	10097.9	3116.2	2691.5	2841.4	3213.0	3444.0	3328.5	3281.7	3284.8	3287.9
60°	29525.5	11887.0	2972.5	2619.7	2729.0	3088.1	3362.8	3259.8	3213.0	3225.4	3228.6
62.5°	35545.5	14513.0	2785.2	2513.5	2610.3	2953.8	3250.4	3172.4	3125.5	3156.8	3156.8
65°	41802.8	16829.8	2554.1	2379.3	2485.4	2807.0	3109.9	3063.1	3016.2	3088.1	3084.9
67.5°	43485.8	16311.5	2323.1	2232.5	2360.5	2644.7	2941.3	2916.3	2891.4	3016.2	3010.0
70°	38630.4	13095.4	2110.7	2082.6	2223.2	2469.8	2760.2	2760.2	2744.6	2838.3	2816.4
72.5°	29431.8	9286.0	1907.8	1923.4	2067.0	2279.4	2563.5	2585.4	2560.4	2607.2	2588.5
75°	15755.7	5314.3	1704.8	1748.5	1873.4	2085.8	2344.9	2366.8	2351.2	2348.1	2357.4
77.5°	5236.3	2597.8	1492.5	1561.2	1670.5	1885.9	2117.0	2151.3	2113.9	2107.6	2104.5
80°	2332.4	1633.0	1258.3	1348.9	1445.7	1658.0	1876.6	1904.7	1864.1	1920.3	1848.5
82.5°	1498.8	1074.1	1008.5	1108.5	1202.1	1430.1	1636.1	1642.4	1604.9	1864.1	1589.3
85°	727.5	665.1	758.7	849.3	930.5	1124.1	1355.1	1358.2	1264.6	1152.2	1111.6
87.5°	362.2	387.2	505.8	587.0	627.6	771.2	986.7	967.9	927.4	843.1	777.5
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)