

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: P269519

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269519
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-07-LED-E1-T4W-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29347.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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

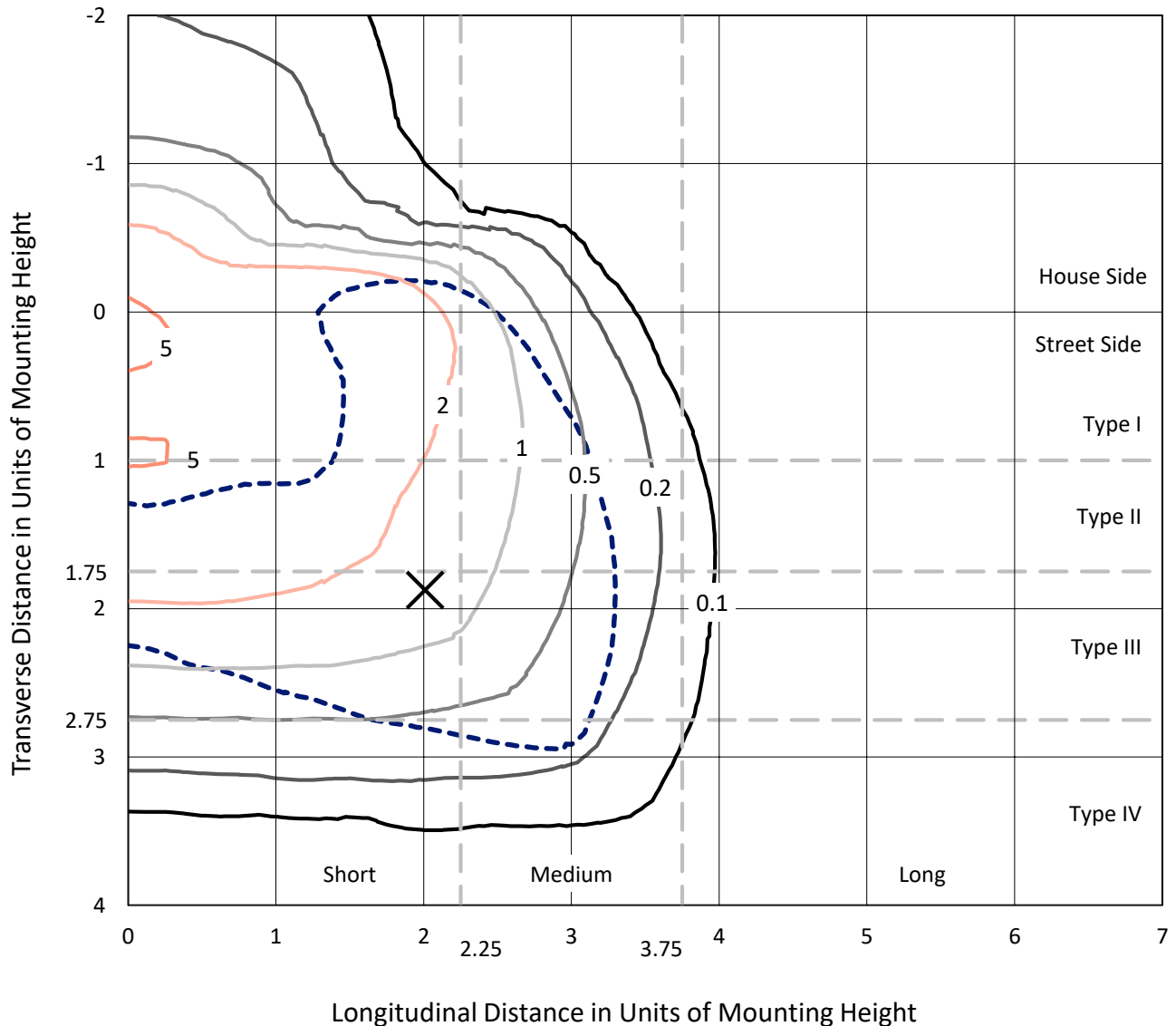


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

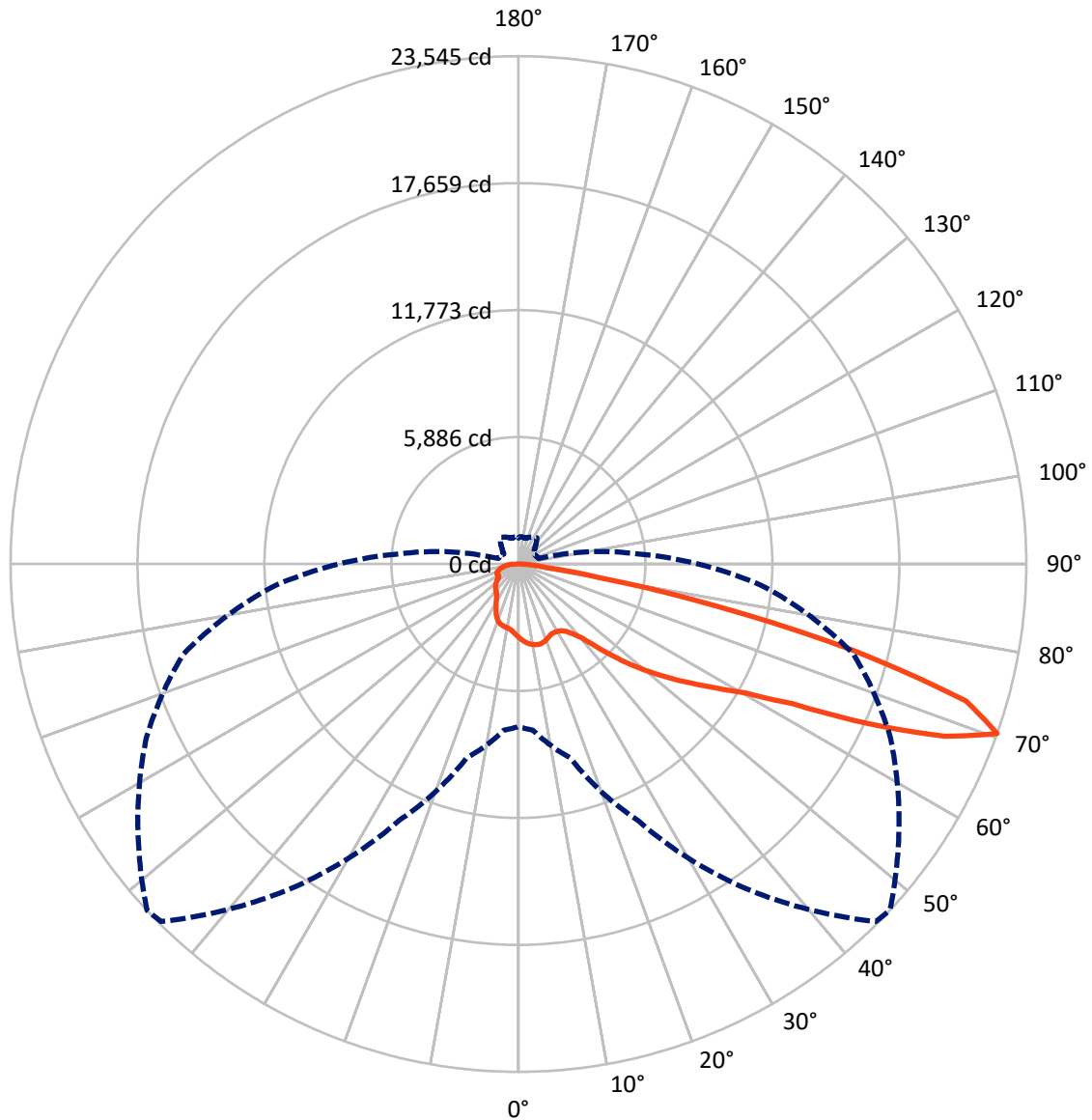


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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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	6122.4	0.0	6122.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	23224.8	0.0	23224.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	29347.3	0.0	29347.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.3	1.1
10°-20°	957.2	3.3
20°-30°	1413.5	4.8
30°-40°	2054.6	7.0
40°-50°	3697.5	12.6
50°-60°	6405.5	21.8
60°-70°	9142.5	31.2
70°-80°	4693.2	16.0
80°-90°	657.1	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°	29347.3	100.0
0°-180°	29347.3	100.0



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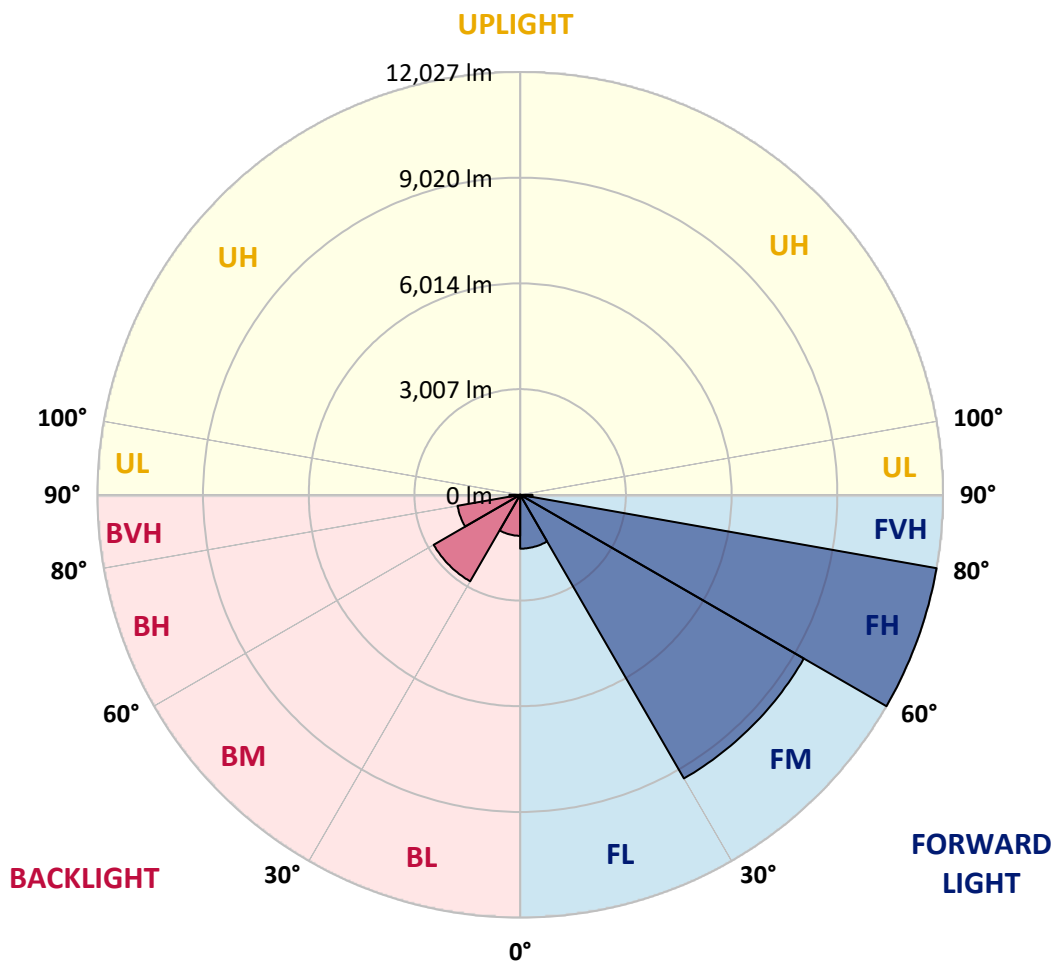
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.3	5.2			
FM (30°-60°)	9315.7	31.7			
FH (60°-80°)	12027.3	41.0			G5
FVH (80°-90°)	350.6	1.2			G3/500
BL (0°-30°)	1165.7	4.0	B3/2500		
BM (30°-60°)	2841.9	9.7	B3/5000		
BH (60°-80°)	1808.4	6.2	B3/2500		G3/2500
BVH (80°-90°)	306.5	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1
2.5°	3605.1	3597.9	3595.0	3589.4	3582.3	3546.6	3539.4	3513.7	3478.0	3440.9	3402.3
5°	3842.1	3840.7	3825.0	3796.3	3750.8	3672.2	3653.6	3590.9	3506.5	3425.1	3343.9
7.5°	4050.5	4037.7	4007.7	3950.6	3870.6	3763.5	3737.8	3650.8	3535.1	3423.8	3313.8
10°	4203.3	4196.2	4130.4	4052.0	3947.7	3829.3	3799.2	3702.2	3575.2	3433.7	3296.7
12.5°	4290.5	4276.1	4200.5	4106.2	3981.9	3866.3	3836.4	3737.8	3595.0	3433.7	3272.4
15°	4284.6	4274.8	4199.0	4096.2	3970.6	3869.2	3842.1	3743.5	3590.9	3419.5	3241.1
17.5°	4170.6	4174.8	4110.6	4009.1	3906.3	3829.3	3805.0	3713.7	3562.3	3390.9	3203.9
20°	3970.6	3990.6	3947.7	3857.9	3800.6	3747.9	3732.2	3655.1	3518.0	3349.5	3163.9
22.5°	3770.6	3789.3	3772.2	3696.4	3687.9	3656.6	3647.8	3592.2	3479.4	3323.8	3139.7
25°	3623.7	3640.8	3638.0	3572.2	3597.9	3596.5	3589.4	3562.3	3471.0	3323.8	3143.9
27.5°	3583.7	3589.4	3583.7	3523.7	3559.4	3587.9	3582.3	3577.9	3496.6	3365.2	3198.1
30°	3720.7	3712.2	3667.9	3546.6	3579.3	3619.5	3613.6	3616.4	3573.6	3473.7	3319.5
32.5°	4267.6	4229.0	4089.1	3747.9	3660.8	3682.2	3685.0	3732.2	3739.3	3640.8	3508.1
35°	5085.7	5042.8	4861.4	4287.5	3913.5	3839.3	3839.3	3910.6	3953.4	3880.7	3800.6
37.5°	5952.3	5905.2	5808.1	5035.7	4444.6	4111.9	4104.7	4154.8	4216.1	4233.4	4253.3
40°	6937.5	6887.5	6914.7	5875.3	5185.6	4584.5	4483.1	4447.5	4613.1	4723.0	4882.9
42.5°	8015.4	7992.6	8002.6	6810.4	6029.5	5291.2	5147.1	4962.9	5162.7	5358.4	5693.8
45°	9013.5	9033.4	9023.5	7811.2	6969.0	6153.6	6000.9	5644.0	5839.5	6175.0	6721.8
47.5°	9887.3	9804.5	9932.9	8904.9	8021.1	7118.8	6930.3	6452.0	6650.5	7064.5	7989.7
50°	10948.1	10936.7	10748.1	10364.0	9293.2	8088.2	7841.2	7287.3	7595.7	8171.1	9587.4
52.5°	12063.1	11856.1	11683.4	11499.2	10642.5	9082.0	8779.2	8119.6	8706.5	9430.3	11534.9
55°	12291.6	12198.8	12412.9	12722.8	11943.1	10114.2	9761.5	9163.3	9957.2	10869.5	13780.7
57.5°	12779.8	12778.4	13221.1	13773.5	13282.3	11209.3	10853.9	10424.0	11363.5	12518.6	16165.1
60°	13109.7	13202.5	14024.9	15097.0	14597.4	12474.4	12147.3	11878.9	12962.6	14361.8	18386.7
62.5°	13282.3	13408.0	14530.3	15633.9	16456.3	14580.2	14253.2	13866.3	15078.5	16383.5	19685.8
65°	12564.2	12811.3	14451.8	16097.9	18084.0	17993.9	17846.9	17167.2	17724.2	17981.2	19216.2
67.5°	10576.9	10829.5	12739.9	15665.4	19246.1	21286.3	21317.8	20157.1	19351.7	18118.3	16156.5
70°	7535.7	7734.1	9314.6	13133.8	18360.9	23438.0	23545.1	21534.9	19027.7	16068.0	11287.8
72.5°	3577.9	3699.3	5195.5	8548.0	14570.2	21474.9	21681.9	19775.8	16179.4	11896.1	6157.9
75°	1314.9	1352.0	1756.1	3636.5	8450.9	15836.7	16080.7	14176.2	10725.4	5922.3	2345.8
77.5°	788.2	812.3	985.1	1534.8	3323.8	9052.0	9413.2	7710.0	4687.4	2204.4	1153.7
80°	551.1	568.3	706.7	955.2	1570.5	3449.4	3770.6	3146.8	1867.4	1394.9	839.6
82.5°	372.6	381.2	496.9	645.3	1043.7	1232.1	1329.2	1399.2	1259.2	1038.0	532.5
85°	244.2	252.8	337.0	425.4	663.8	636.8	651.0	823.8	919.4	705.3	295.5
87.5°	140.0	145.6	202.7	227.0	325.5	269.9	272.6	434.1	588.2	475.5	179.9
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°	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1	3405.1
2.5°	3392.4	3373.8	3332.4	3306.8	3282.3	3276.7	3266.6	3265.2	3263.8	3263.8	3259.6
5°	3316.7	3285.3	3221.1	3185.3	3155.3	3152.5	3151.1	3158.3	3161.0	3163.9	3159.6
7.5°	3268.2	3225.4	3145.3	3093.9	3058.3	3049.7	3063.9	3096.7	3118.2	3126.8	3122.5
10°	3238.1	3185.3	3092.5	3036.8	3006.8	3002.6	3021.1	3059.6	3104.0	3121.2	3119.6
12.5°	3203.9	3143.9	3045.4	2986.9	2969.7	2978.3	3002.6	3038.2	3083.9	3111.1	3112.4
15°	3169.6	3099.6	2998.4	2946.9	2939.8	2951.2	2974.0	3001.1	3036.8	3063.9	3066.9
17.5°	3128.2	3055.3	2954.0	2901.2	2895.4	2901.2	2902.7	2916.8	2939.8	2965.5	2972.6
20°	3083.9	3009.7	2904.0	2851.2	2825.4	2802.7	2777.0	2779.8	2787.0	2812.7	2818.4
22.5°	3052.5	2978.3	2865.6	2792.7	2724.2	2655.6	2604.2	2597.1	2600.0	2621.3	2628.5
25°	3055.3	2976.9	2855.5	2729.9	2579.9	2470.0	2401.4	2390.1	2388.7	2404.4	2414.4
27.5°	3111.1	3032.6	2892.6	2665.6	2422.9	2260.1	2187.4	2178.7	2167.3	2171.7	2183.1
30°	3235.2	3162.5	2982.6	2600.0	2252.9	2054.6	1978.8	1970.3	1954.6	1947.4	1956.0
32.5°	3438.1	3378.0	3114.0	2537.2	2083.1	1879.0	1801.8	1783.2	1773.3	1764.7	1771.8
35°	3774.9	3749.3	3289.6	2468.6	1933.2	1743.3	1673.4	1644.7	1630.6	1646.2	1657.6
37.5°	4303.2	4317.6	3519.4	2361.6	1817.5	1653.3	1594.9	1562.0	1540.6	1553.3	1566.3
40°	5051.3	5061.4	3773.6	2210.2	1717.6	1600.5	1537.7	1507.7	1477.7	1454.8	1453.5
42.5°	6033.6	5932.3	4023.4	2046.0	1601.9	1567.7	1497.7	1460.6	1414.9	1352.0	1339.3
45°	7198.7	6843.3	4213.3	1857.5	1472.1	1527.7	1453.5	1402.1	1330.7	1262.2	1255.0
47.5°	8540.8	7821.3	4306.1	1662.0	1350.6	1469.2	1399.2	1317.9	1227.9	1193.6	1189.4
50°	10180.0	8982.1	4350.4	1472.1	1245.1	1392.1	1320.7	1225.0	1149.3	1142.3	1138.0
52.5°	12046.0	10378.4	4364.7	1316.3	1157.9	1292.1	1256.4	1163.7	1103.7	1109.3	1109.3
55°	13999.1	11820.3	4170.6	1203.5	1078.0	1189.4	1213.6	1139.3	1089.4	1112.2	1120.7
57.5°	15792.5	13098.2	3559.4	1116.6	1002.2	1110.8	1197.9	1162.1	1127.9	1220.7	1226.5
60°	17168.8	13853.5	2658.4	1038.0	946.6	1083.6	1239.3	1249.4	1257.8	1479.1	1509.2
62.5°	17457.2	13602.2	1827.5	976.5	920.9	1106.5	1314.9	1316.3	1306.3	1460.6	1479.1
65°	16133.6	12013.2	1329.2	942.3	899.6	1147.9	1379.2	1349.3	1283.6	1400.6	1366.3
67.5°	12812.6	9050.6	1106.5	916.6	868.1	1145.1	1447.8	1379.2	1270.7	1372.2	1316.3
70°	8316.7	5472.6	985.1	895.3	830.9	1090.8	1487.8	1376.4	1233.6	1276.4	1210.7
72.5°	4057.6	2447.2	903.8	863.8	792.5	1015.2	1486.2	1350.6	1195.0	1192.2	1156.5
75°	1587.7	1120.7	829.6	816.6	726.6	929.4	1446.4	1313.5	1149.3	1103.7	1090.8
77.5°	929.4	799.5	735.4	746.8	648.1	843.8	1387.8	1249.4	1086.5	1032.2	1018.0
80°	676.8	598.2	626.7	645.3	554.0	758.1	1309.3	1170.8	1016.5	1043.7	1023.7
82.5°	434.1	385.6	508.4	526.9	461.2	671.0	1223.6	1087.9	918.1	833.7	813.9
85°	221.3	244.2	378.4	401.3	355.5	551.1	1119.4	978.1	806.7	693.9	705.3
87.5°	124.2	167.1	241.3	269.9	251.3	424.0	908.0	806.7	658.2	535.4	471.2
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)