

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: P318528

Luminaire Tested: **GLEON-SA4C-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20980 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

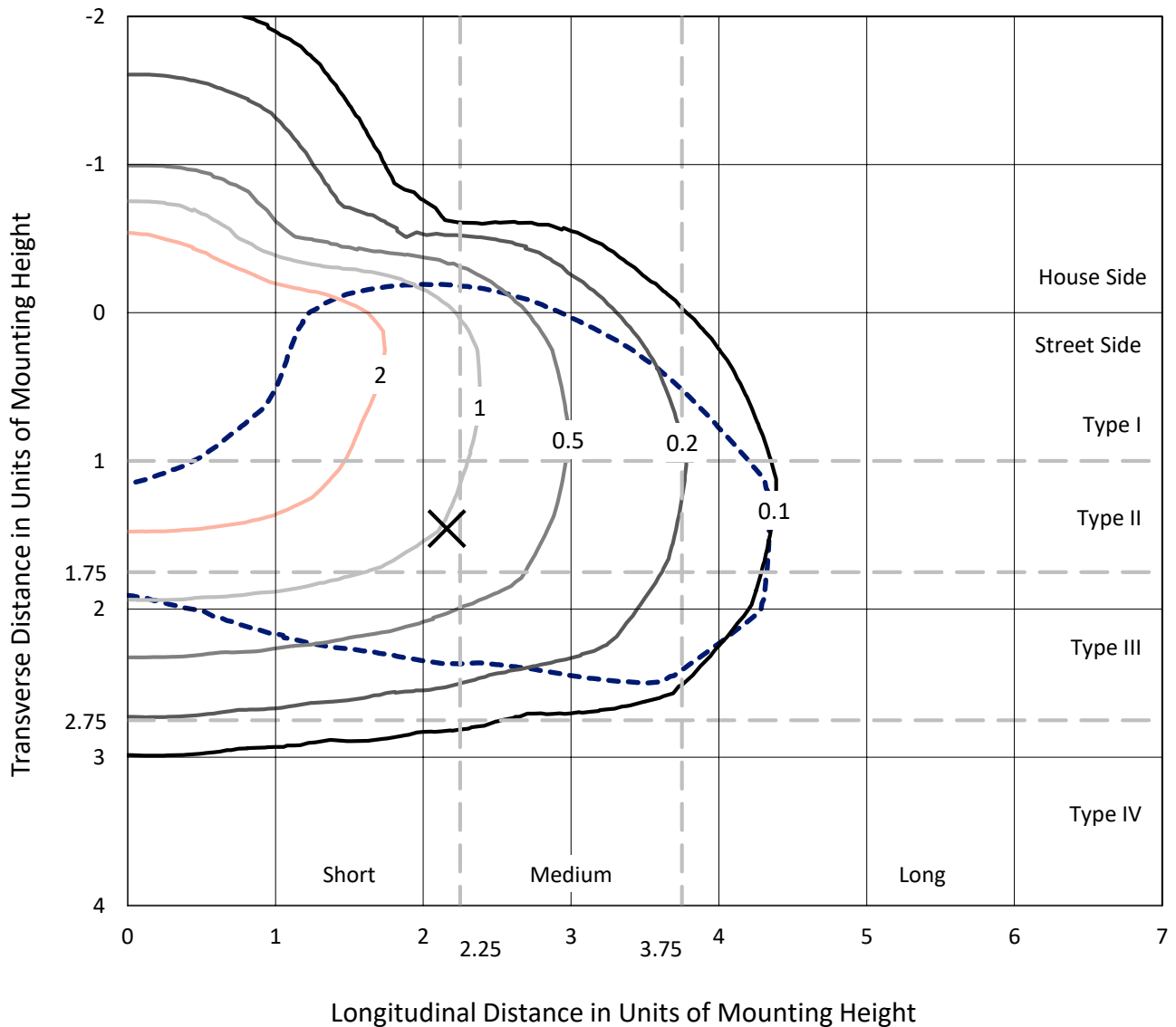
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

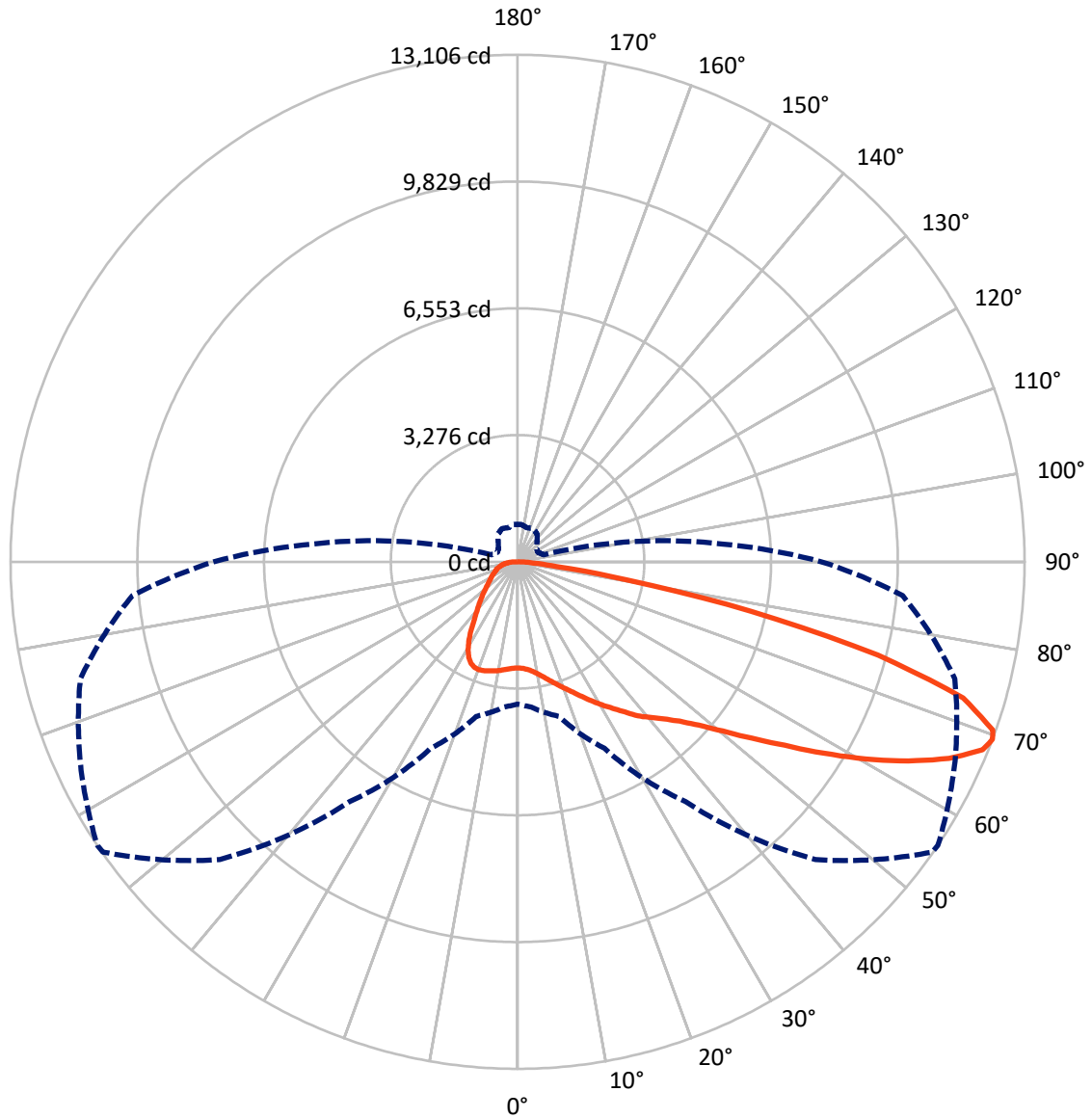
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4672.2	0.0	4672.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16307.8	0.0	16307.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	20980.0	0.0	20980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	1.3
10°-20°	866.2	4.1
20°-30°	1512.1	7.2
30°-40°	2172.1	10.4
40°-50°	3006.1	14.3
50°-60°	4404.4	21.0
60°-70°	5369.7	25.6
70°-80°	2968.7	14.2
80°-90°	411.2	2.0
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°	20980.0	100.0
0°-180°	20980.0	100.0

Coefficient of Utilization



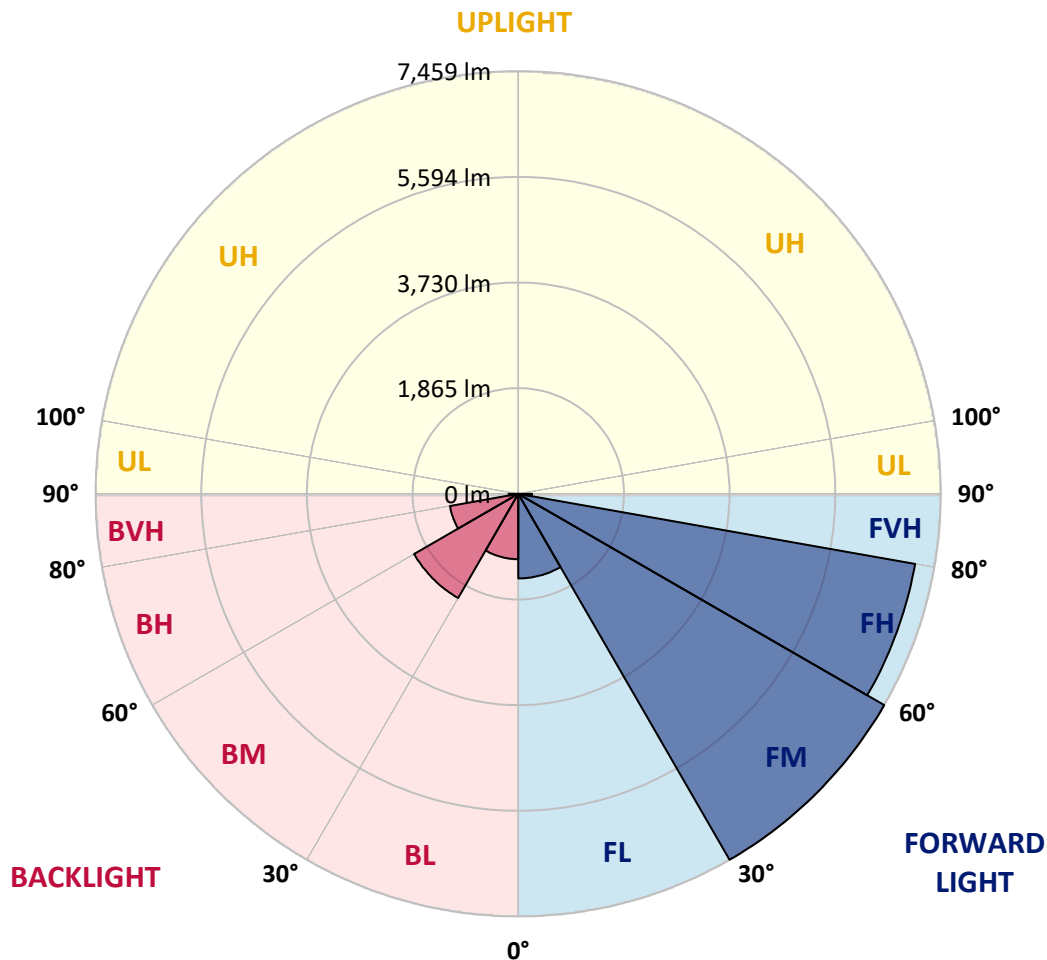
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1493.2	7.1			
FM (30°-60°)	7459.2	35.6			
FH (60°-80°)	7113.3	33.9			G3/7500
FVH (80°-90°)	242.2	1.2			G3/500
BL (0°-30°)	1154.6	5.5	B3/2500		
BM (30°-60°)	2123.4	10.1	B2/2500		
BH (60°-80°)	1225.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	169.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2760.2	2763.1	2760.9	2766.7	2760.2	2764.5	2760.9	2760.9	2758.7	2752.2	2745.0
5°	2803.5	2809.3	2805.7	2811.5	2803.5	2805.0	2798.5	2798.5	2792.0	2778.2	2763.8
7.5°	2871.5	2878.0	2875.1	2880.9	2870.0	2870.0	2861.3	2860.6	2847.6	2825.2	2808.6
10°	2952.4	2961.1	2958.2	2966.9	2958.2	2961.1	2952.4	2952.4	2935.1	2903.3	2882.3
12.5°	3070.2	3081.1	3073.1	3072.4	3068.8	3074.6	3067.3	3065.9	3050.0	3006.6	2977.7
15°	3227.8	3239.3	3222.7	3221.3	3201.0	3198.9	3198.9	3196.7	3186.6	3134.5	3086.8
17.5°	3409.2	3412.8	3398.3	3375.2	3349.2	3332.6	3330.4	3336.2	3336.2	3275.5	3199.6
20°	3587.0	3593.5	3581.9	3555.9	3522.7	3498.1	3480.7	3492.3	3491.6	3419.3	3311.6
22.5°	3780.7	3795.9	3778.5	3745.3	3706.2	3678.8	3648.4	3658.5	3659.3	3570.4	3421.5
25°	4031.5	4017.7	4006.9	3959.9	3904.3	3876.1	3847.9	3858.0	3855.1	3733.0	3534.9
27.5°	4253.4	4256.2	4241.8	4191.9	4127.6	4065.4	4064.0	4070.5	4059.7	3902.1	3641.9
30°	4511.4	4512.8	4492.6	4447.8	4377.7	4297.4	4278.7	4289.5	4266.4	4062.6	3754.7
32.5°	4768.0	4775.2	4752.8	4698.6	4642.2	4544.6	4507.0	4514.3	4456.4	4226.6	3871.0
35°	4992.7	5002.8	4995.6	4959.5	4898.0	4814.2	4769.4	4765.1	4693.5	4427.5	4025.0
37.5°	5221.8	5231.2	5223.3	5192.9	5168.4	5079.5	5055.6	5055.6	4931.3	4632.8	4220.8
40°	5457.5	5471.9	5462.5	5420.6	5399.6	5359.2	5302.1	5288.3	5153.9	4879.3	4540.3
42.5°	5676.4	5695.2	5732.8	5708.2	5665.6	5671.4	5556.5	5549.2	5450.9	5243.5	4941.4
45°	5987.2	6014.7	6078.3	6059.5	6050.8	6019.0	5882.4	5875.9	5838.3	5733.5	5439.4
47.5°	6326.2	6363.8	6478.7	6482.3	6575.5	6515.6	6329.8	6307.4	6316.1	6320.4	6047.2
50°	6638.4	6679.6	6868.3	6957.1	7176.9	7189.9	6892.8	6872.6	6906.6	7006.3	6755.5
52.5°	6887.8	6939.8	7175.4	7450.1	7826.6	7933.6	7585.9	7570.8	7596.1	7768.1	7556.3
55°	7070.6	7127.0	7383.6	7883.7	8485.0	8673.7	8383.8	8369.4	8385.3	8604.3	8427.2
57.5°	7113.3	7127.0	7499.2	8175.7	9040.8	9494.0	9360.3	9331.4	9253.3	9444.1	9388.5
60°	6913.1	6968.0	7403.8	8278.3	9470.9	10302.7	10380.8	10344.7	10125.7	10281.8	10237.0
62.5°	6506.9	6605.2	7047.5	8122.2	9639.3	10963.3	11381.8	11338.4	10961.2	11062.3	10847.0
65°	5843.4	5885.3	6350.0	7583.8	9425.3	11386.1	12274.4	12252.7	11777.9	11619.6	10959.7
67.5°	4656.6	4735.4	5130.0	6458.5	8550.1	11336.3	12964.6	12962.4	12311.2	11826.3	10560.0
69°	3678.8	3760.4	4136.3	5320.1	7565.7	10880.2	13080.2	13105.5	12461.6	11700.5	9989.1
70°	2932.9	3027.6	3285.6	4481.0	6691.9	10278.9	12984.1	13029.7	12432.7	11493.1	9462.2
72.5°	1248.2	1324.8	1508.4	2309.9	4078.5	7675.6	11871.8	12043.8	11762.7	10518.8	7820.1
75°	545.0	568.8	651.9	941.7	1810.5	4177.5	9300.3	9618.3	10057.7	8891.2	5825.3
77.5°	399.0	409.1	454.6	552.9	812.4	1577.8	5980.7	6165.7	7253.5	6470.0	3573.3
80°	308.6	315.8	351.3	406.2	530.5	638.2	2727.6	2886.6	4078.5	3323.2	1488.1
82.5°	245.7	250.8	275.4	299.2	366.4	386.7	905.6	1004.6	1505.5	917.9	393.9
85°	228.4	234.2	242.8	218.3	234.9	226.9	391.7	409.8	454.6	360.7	164.8
87.5°	103.4	122.1	240.7	169.8	125.0	99.7	160.4	167.7	188.6	189.4	73.0
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°	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2749.3	2747.2	2750.8	2742.1	2752.9	2752.2	2748.6	2750.0	2757.3	2756.6	2757.3
5°	2765.9	2764.5	2768.8	2762.3	2775.3	2779.7	2780.4	2786.9	2794.9	2797.0	2797.0
7.5°	2807.9	2807.9	2810.0	2801.4	2810.0	2809.3	2805.7	2812.2	2820.2	2820.9	2820.2
10°	2880.1	2880.9	2877.2	2854.8	2847.6	2828.1	2810.0	2810.8	2820.9	2828.8	2831.0
12.5°	2971.2	2968.3	2952.4	2911.2	2880.9	2841.1	2822.3	2821.6	2831.7	2838.2	2840.4
15°	3075.3	3067.3	3026.1	2958.9	2905.4	2866.4	2836.1	2828.8	2823.0	2815.8	2816.5
17.5°	3173.6	3155.5	3086.8	2993.6	2937.2	2885.2	2826.7	2779.7	2747.2	2728.4	2722.6
20°	3273.3	3237.9	3138.9	3026.1	2954.6	2859.9	2747.2	2651.8	2592.5	2565.0	2560.0
22.5°	3364.4	3307.3	3187.3	3060.1	2940.9	2774.6	2597.5	2458.8	2376.4	2339.5	2342.4
25°	3453.3	3373.8	3237.9	3084.0	2871.5	2624.3	2389.4	2218.8	2123.4	2082.2	2080.8
27.5°	3531.3	3441.0	3292.8	3064.4	2742.1	2410.4	2142.9	1976.7	1897.2	1861.8	1856.0
30°	3621.0	3525.6	3365.8	2990.0	2552.7	2163.2	1902.3	1785.2	1728.8	1693.4	1686.9
32.5°	3730.1	3640.5	3425.8	2854.8	2310.6	1905.2	1714.4	1632.7	1581.4	1541.6	1534.4
35°	3889.1	3792.2	3441.0	2661.1	2044.6	1701.3	1576.3	1492.5	1423.1	1371.8	1366.7
37.5°	4088.6	3982.3	3406.3	2410.4	1786.6	1569.1	1461.4	1358.0	1267.7	1195.4	1183.9
40°	4376.2	4215.8	3310.2	2121.3	1596.5	1467.2	1349.4	1231.6	1119.5	1035.0	1018.3
42.5°	4721.7	4489.7	3162.7	1833.6	1457.1	1363.8	1238.1	1092.1	985.1	925.1	916.4
45°	5161.1	4774.5	2958.2	1582.1	1319.7	1260.5	1118.1	983.7	917.2	873.1	865.8
47.5°	5662.7	5093.9	2743.5	1377.6	1203.4	1163.6	1022.0	935.2	882.5	847.8	841.3
50°	6279.2	5454.6	2515.9	1209.9	1086.3	1047.3	976.4	908.5	866.6	839.8	833.3
52.5°	6974.5	5861.5	2351.8	1077.6	989.4	961.3	952.6	894.0	860.1	839.8	833.3
55°	7723.3	6275.6	2174.7	966.3	905.6	913.6	936.7	895.5	872.4	847.8	838.4
57.5°	8472.7	6703.5	1977.4	872.4	839.1	878.1	925.8	898.4	878.9	855.0	846.3
60°	9065.4	6974.5	1671.7	793.6	786.3	839.1	899.8	876.7	851.4	852.1	850.7
62.5°	9342.2	6960.0	1334.2	723.5	733.6	786.3	857.9	842.7	821.8	849.9	852.1
65°	9186.8	6613.1	1038.6	659.9	677.2	731.4	814.5	826.1	833.3	887.5	894.8
67.5°	8534.9	5938.1	804.4	604.2	625.9	693.8	818.9	899.8	909.2	966.3	965.6
69°	7860.6	5305.0	698.9	575.3	600.6	703.2	875.2	946.8	911.4	972.1	963.4
70°	7295.4	4804.1	642.5	555.8	589.0	719.9	912.8	946.1	900.5	952.6	938.1
72.5°	5618.6	3456.2	545.0	519.7	550.0	688.8	923.7	925.1	875.2	885.4	860.8
75°	3853.7	2184.1	475.6	470.5	490.7	620.8	889.0	883.9	809.5	795.0	774.8
77.5°	2124.9	1109.4	404.0	423.5	437.3	550.0	808.0	800.8	739.4	709.0	701.8
80°	819.6	485.7	341.1	376.6	385.2	476.3	708.3	701.8	650.5	611.4	600.6
82.5°	309.3	254.4	281.9	326.0	323.1	393.2	599.9	596.3	546.4	489.3	472.0
85°	143.1	152.5	223.3	268.9	247.9	291.3	479.9	486.4	425.7	357.8	357.8
87.5°	60.7	85.3	158.3	203.1	167.0	196.6	352.0	336.1	308.6	213.9	200.9
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)