

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: P455083

Luminaire Tested: **GALN-SA6B-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20718 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 243
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: 24 FT

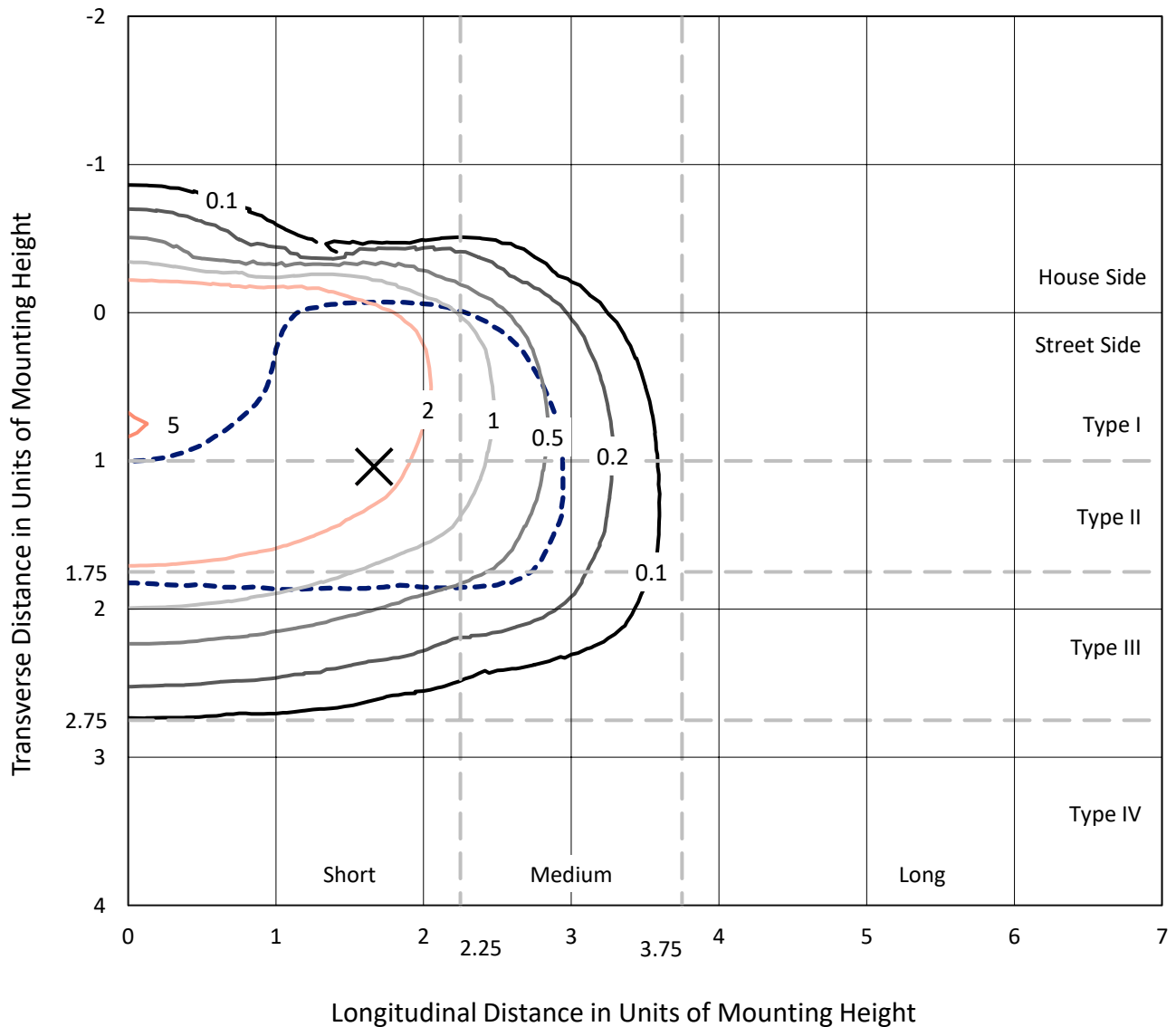




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Iso-Footcandle Lines of Horizontal Illumination

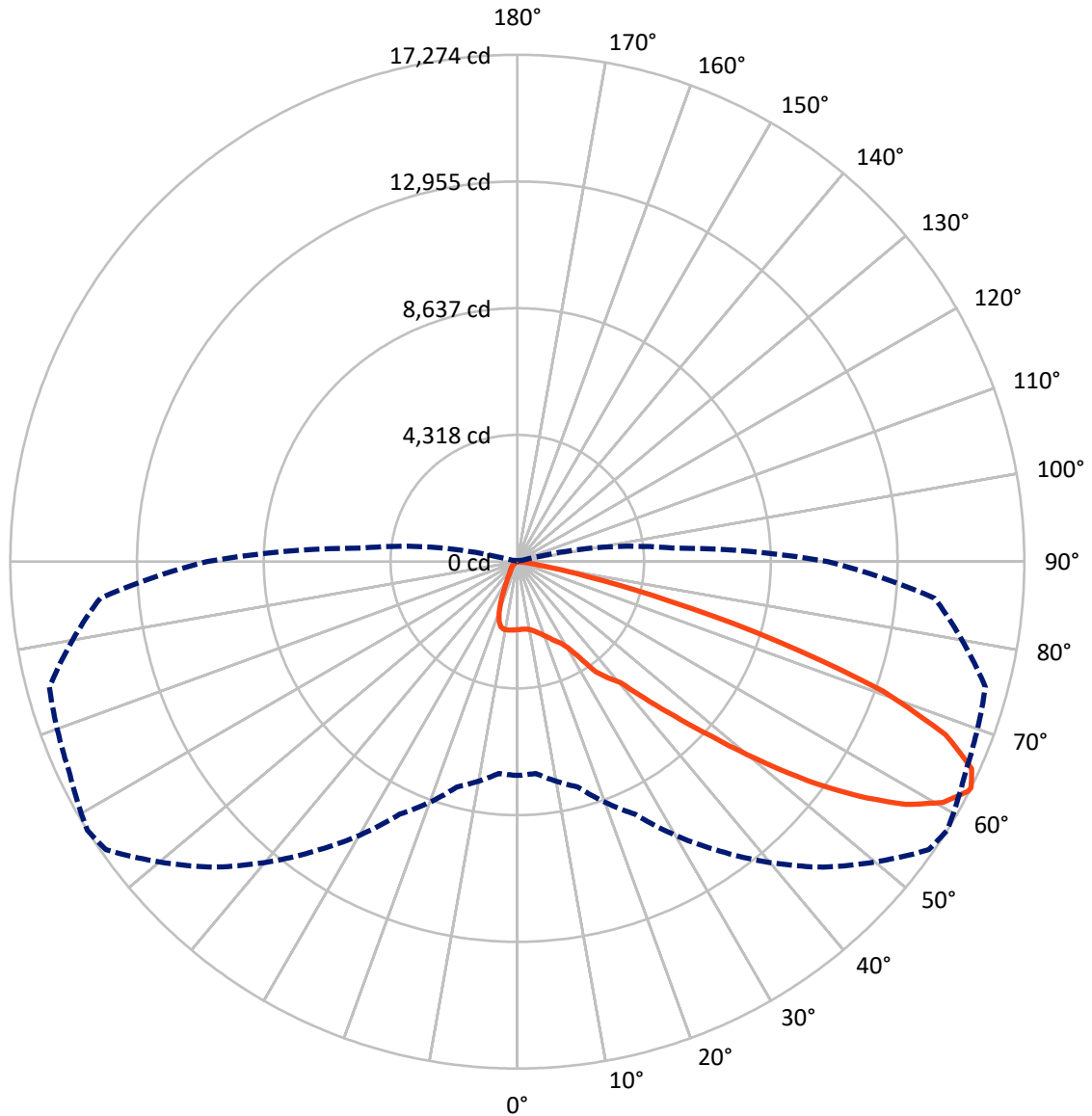
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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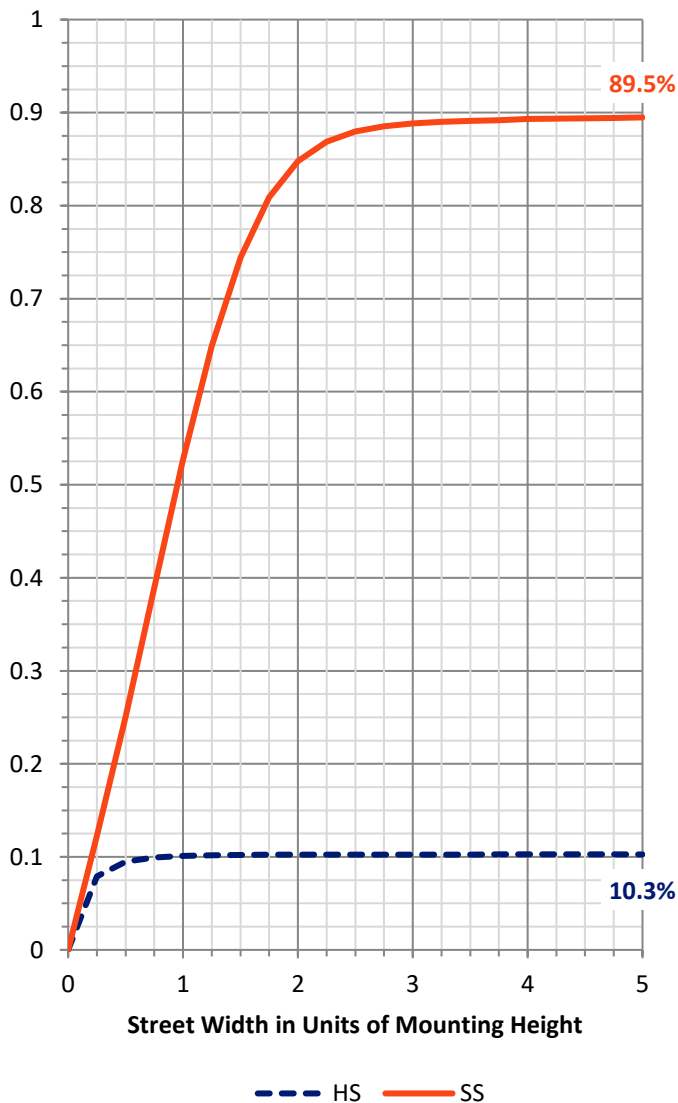
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2145.2	0.0	2145.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18572.8	0.0	18572.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	20718.0	0.0	20718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	1.0
10°-20°	591.4	2.9
20°-30°	1026.4	5.0
30°-40°	1886.1	9.1
40°-50°	3550.6	17.1
50°-60°	6073.0	29.3
60°-70°	5814.9	28.1
70°-80°	1482.8	7.2
80°-90°	75.8	0.4
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°	20718.0	100.0
0°-180°	20718.0	100.0

Coefficient of Utilization



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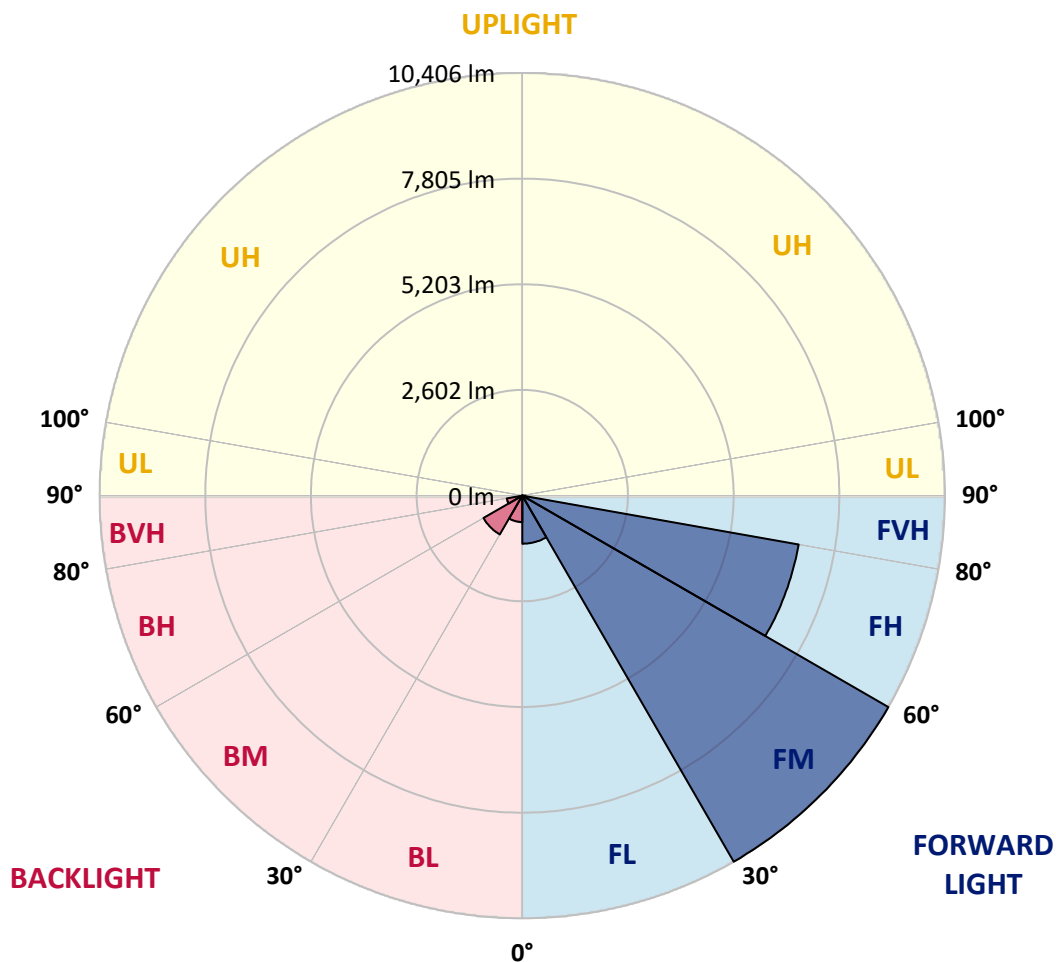
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.3	5.7			
FM (30°-60°)	10406.2	50.2			
FH (60°-80°)	6909.3	33.3			G3/7500
FVH (80°-90°)	72.9	0.4			G1/100
BL (0°-30°)	650.6	3.1	B2/1000		
BM (30°-60°)	1103.4	5.3	B2/2500		
BH (60°-80°)	388.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5
2.5°	2261.7	2269.5	2277.3	2280.5	2291.4	2302.3	2310.1	2308.5	2321.0	2327.3	2327.3
5°	2171.3	2171.3	2191.6	2210.3	2241.5	2272.7	2302.3	2308.5	2331.9	2353.8	2361.6
7.5°	2094.8	2099.5	2115.1	2149.4	2191.6	2246.1	2305.4	2319.5	2360.0	2408.4	2428.6
10°	2059.0	2062.1	2082.4	2118.2	2171.3	2246.1	2328.8	2355.3	2417.7	2494.2	2522.2
12.5°	2051.2	2055.8	2076.1	2116.7	2177.5	2268.0	2380.3	2408.4	2498.8	2597.1	2639.2
15°	2065.2	2068.3	2088.6	2132.3	2199.4	2307.0	2448.9	2487.9	2595.5	2709.4	2764.0
17.5°	2115.1	2112.0	2126.0	2161.9	2236.8	2355.3	2531.6	2578.4	2704.7	2860.7	2896.6
20°	2327.3	2307.0	2294.5	2263.3	2292.9	2424.0	2631.4	2700.1	2856.0	3015.1	3040.1
22.5°	2784.3	2739.1	2650.1	2528.5	2434.9	2517.6	2751.5	2831.1	3032.3	3188.3	3188.3
25°	3366.1	3308.4	3219.5	2954.3	2725.0	2672.0	2887.2	2987.1	3224.2	3381.7	3330.2
27.5°	4094.5	4049.3	3876.2	3567.3	3216.4	2941.8	3044.8	3136.8	3394.2	3584.5	3476.9
30°	4687.3	4665.4	4523.5	4247.4	3860.6	3459.7	3338.0	3398.9	3620.4	3840.3	3729.5
32.5°	5188.0	5188.0	5042.9	4785.5	4423.7	4068.0	3835.6	3879.3	4091.4	4345.7	4139.8
35°	5738.6	5719.9	5602.9	5358.0	4952.4	4638.9	4543.8	4603.0	4794.9	4983.6	4476.7
37.5°	6317.3	6311.1	6189.4	5952.3	5621.6	5227.0	5003.9	5019.5	5117.8	5233.2	4871.3
40°	6945.9	6955.3	6796.2	6649.5	6337.6	5933.6	5506.2	5407.9	5499.9	5825.9	5599.8
42.5°	7688.4	7666.5	7597.9	7398.3	7147.1	6905.3	6392.2	6356.3	6437.4	6786.8	6541.9
45°	8551.0	8582.2	8463.6	8352.9	8184.4	7983.2	7554.2	7491.8	7580.8	8123.6	7775.7
47.5°	9415.1	9385.5	9461.9	9441.6	9532.1	9382.3	9003.3	8875.4	9089.1	9603.8	9092.2
50°	10073.4	10106.1	10265.2	10497.6	10886.0	10970.3	10606.8	10563.1	10658.3	10989.0	10269.9
52.5°	10500.7	10609.9	10859.5	11456.9	12157.3	12701.7	12425.6	12402.2	12363.2	12452.1	11396.1
55°	10780.0	10890.7	11216.7	12096.4	13302.2	14186.6	14200.6	14100.8	13843.4	13779.5	12449.0
57.5°	10608.4	10630.2	11095.0	12271.1	13937.0	15245.7	15704.3	15604.5	15128.7	14887.0	13378.6
60°	9535.2	9580.4	10227.8	11609.8	13661.0	15592.0	16701.0	16655.8	16134.8	15861.9	14102.4
62.5°	7633.8	7764.8	8430.9	9972.0	12377.2	15008.6	17105.0	17233.0	16827.4	16451.5	14330.1
63°	7284.4	7242.3	7945.8	9494.7	12037.2	14720.1	17111.3	17273.5	16858.6	16507.6	14267.7
65°	5392.3	5518.7	5975.7	7487.2	10017.2	13377.1	16726.0	17013.0	16743.2	16259.6	13576.7
67.5°	3027.6	3021.4	3526.8	4899.4	7011.4	10492.9	15124.1	15730.8	15674.7	14590.6	11254.1
70°	1481.8	1505.2	1712.7	2539.4	4066.5	7239.1	12567.5	13222.6	13242.9	11460.0	7782.0
72.5°	670.7	681.6	829.8	1236.9	2090.2	3854.3	8660.2	9285.6	9170.2	7303.1	4297.3
75°	354.1	377.5	457.0	622.4	1007.6	1589.5	4710.7	5315.9	5074.1	3336.5	1581.7
77.5°	262.1	269.8	310.4	396.2	539.7	619.3	2032.5	2417.7	2264.9	1207.3	524.1
80°	191.9	198.1	230.9	280.8	340.0	315.1	765.9	878.2	787.7	410.2	160.7
82.5°	117.0	118.5	168.5	209.0	213.7	176.3	252.7	271.4	283.9	230.9	87.4
85°	42.1	53.0	113.9	151.3	126.3	88.9	106.1	117.0	127.9	146.6	51.5
87.5°	4.7	6.2	54.6	73.3	35.9	32.8	39.0	43.7	46.8	54.6	25.0
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°	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5	2319.5
2.5°	2333.5	2339.7	2335.1	2327.3	2325.7	2321.0	2311.7	2311.7	2311.7	2314.8	2311.7
5°	2367.8	2372.5	2361.6	2346.0	2328.8	2307.0	2283.6	2269.5	2268.0	2264.9	2257.1
7.5°	2433.3	2439.6	2414.6	2377.2	2330.4	2277.3	2227.4	2180.6	2158.8	2141.6	2141.6
10°	2528.5	2534.7	2484.8	2417.7	2324.1	2216.5	2098.0	1990.3	1906.1	1867.1	1857.8
12.5°	2642.3	2645.5	2562.8	2445.8	2291.4	2083.9	1831.2	1595.7	1431.9	1357.0	1349.2
15°	2767.1	2745.3	2636.1	2456.7	2197.8	1811.0	1374.2	1085.6	915.6	865.7	884.4
17.5°	2893.5	2852.9	2692.3	2439.6	1987.2	1374.2	923.4	740.9	687.9	673.8	673.8
20°	3012.0	2955.9	2732.8	2364.7	1622.2	946.8	684.8	641.1	631.7	622.4	623.9
22.5°	3130.6	3044.8	2768.7	2197.8	1208.9	677.0	613.0	599.0	586.5	574.0	572.5
25°	3246.0	3127.4	2782.7	1888.9	823.6	581.8	560.0	541.3	516.3	502.3	499.1
27.5°	3366.1	3227.3	2773.4	1499.0	600.5	521.0	499.1	472.6	443.0	418.0	418.0
30°	3597.0	3417.6	2740.6	1077.8	505.4	458.6	430.5	388.4	355.6	330.7	329.1
32.5°	3912.0	3665.6	2628.3	758.1	449.2	404.0	361.9	315.1	280.8	262.1	262.1
35°	4192.8	3915.2	2417.7	558.4	404.0	351.0	299.5	254.3	227.7	215.3	210.6
37.5°	4620.2	4280.2	2127.6	453.9	360.3	304.2	251.1	209.0	187.2	177.8	177.8
40°	5261.3	4726.3	1772.0	397.8	318.2	258.9	209.0	176.3	159.1	148.2	148.2
42.5°	6056.8	5272.2	1411.6	357.2	279.2	223.1	174.7	149.7	134.1	126.3	124.8
45°	7058.2	5847.8	1087.2	319.8	248.0	190.3	148.2	126.3	110.7	106.1	107.6
47.5°	8103.3	6354.7	842.3	287.0	215.3	160.7	126.3	109.2	98.3	92.0	92.0
50°	8995.5	6704.1	639.5	249.6	190.3	135.7	110.7	98.3	88.9	85.8	84.2
52.5°	9741.1	6805.5	489.8	216.8	166.9	117.0	98.3	88.9	81.1	76.4	76.4
55°	10376.0	6716.6	383.7	182.5	140.4	101.4	87.4	79.6	70.2	65.5	64.0
57.5°	10747.2	6431.2	293.2	151.3	113.9	84.2	76.4	67.1	56.2	48.4	48.4
60°	10934.4	6016.2	224.6	124.8	87.4	67.1	62.4	49.9	39.0	32.8	31.2
62.5°	10709.8	5465.6	170.0	98.3	65.5	49.9	42.1	35.9	25.0	18.7	18.7
63°	10570.9	5306.5	163.8	93.6	60.8	46.8	39.0	32.8	21.8	17.2	15.6
65°	9636.6	4612.4	134.1	74.9	48.4	32.8	26.5	23.4	15.6	7.8	6.2
67.5°	7652.5	3528.3	106.1	56.2	34.3	23.4	15.6	14.0	4.7	0.0	0.0
70°	5173.9	2278.9	82.7	40.6	23.4	14.0	7.8	6.2	1.6	0.0	0.0
72.5°	2698.5	1168.3	64.0	29.6	14.0	9.4	4.7	1.6	0.0	0.0	0.0
75°	954.6	397.8	46.8	18.7	9.4	4.7	1.6	0.0	0.0	0.0	0.0
77.5°	288.6	148.2	29.6	14.0	6.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	101.4	54.6	17.2	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	49.9	26.5	10.9	7.8	4.7	1.6	0.0	0.0	0.0	0.0	0.0
85°	28.1	17.2	9.4	7.8	4.7	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	12.5	9.4	7.8	6.2	3.1	1.6	0.0	0.0	0.0	0.0
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)