

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: P451619

Luminaire Tested: **GALN-SA2C-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10651 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

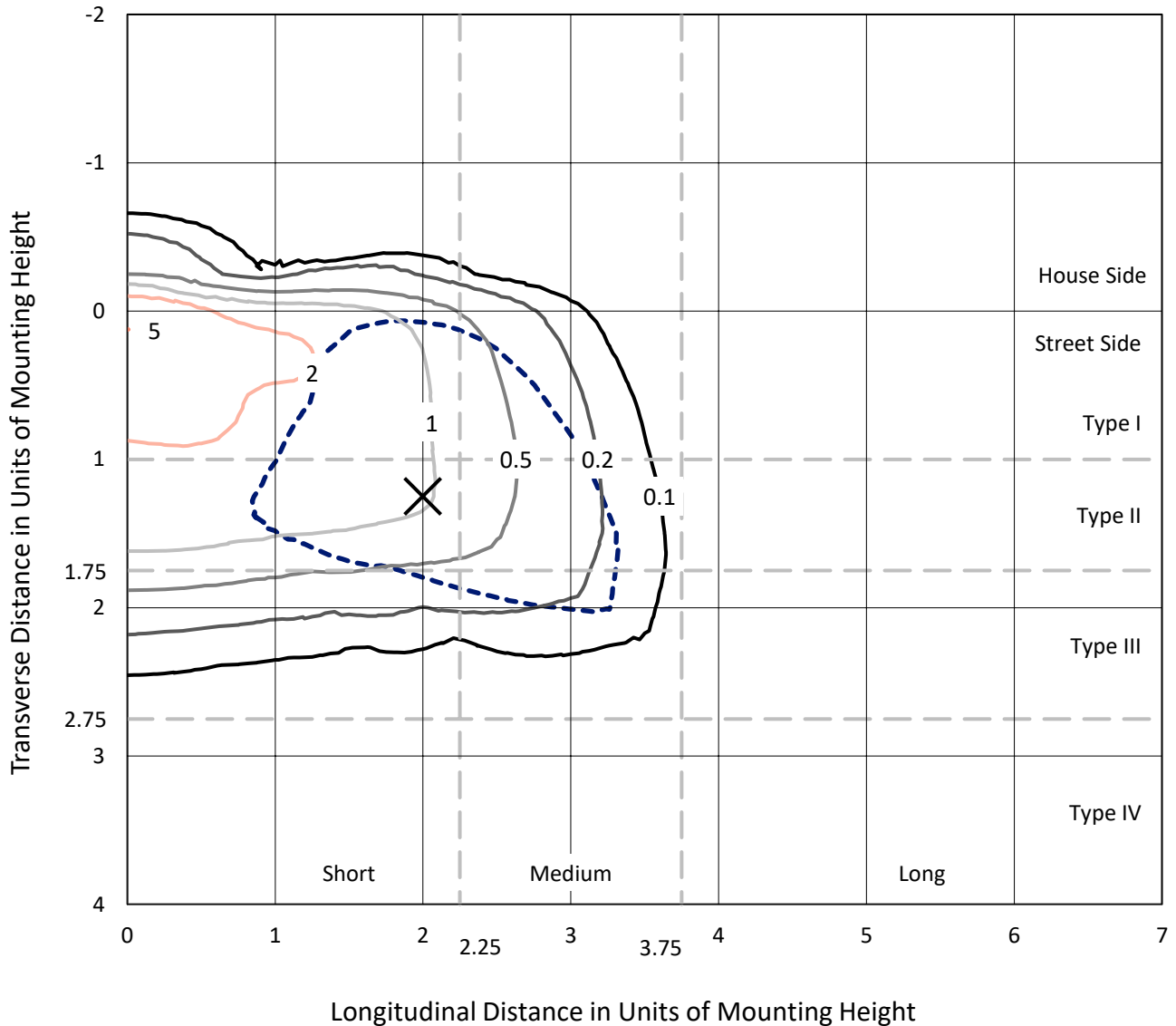
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

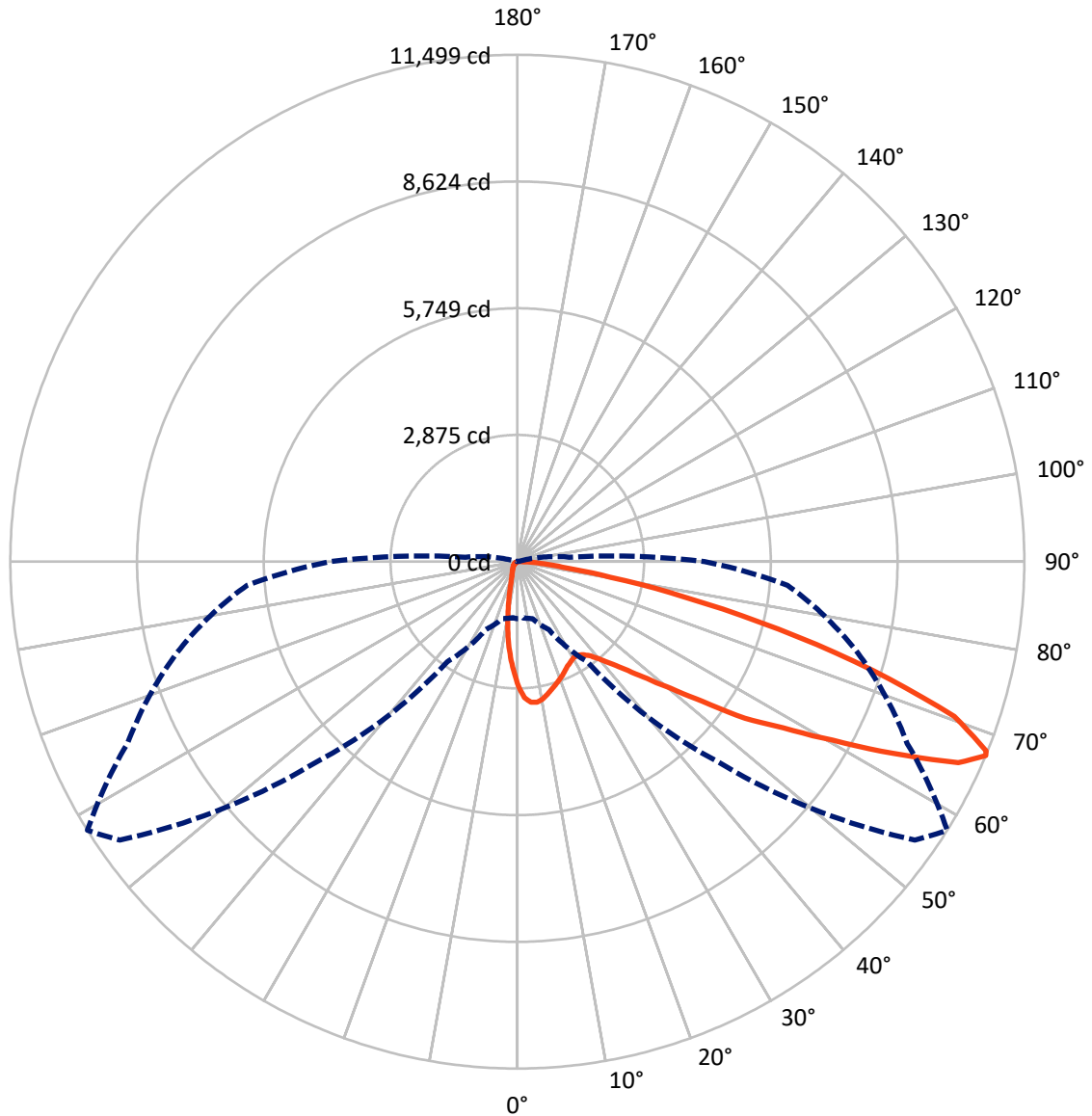
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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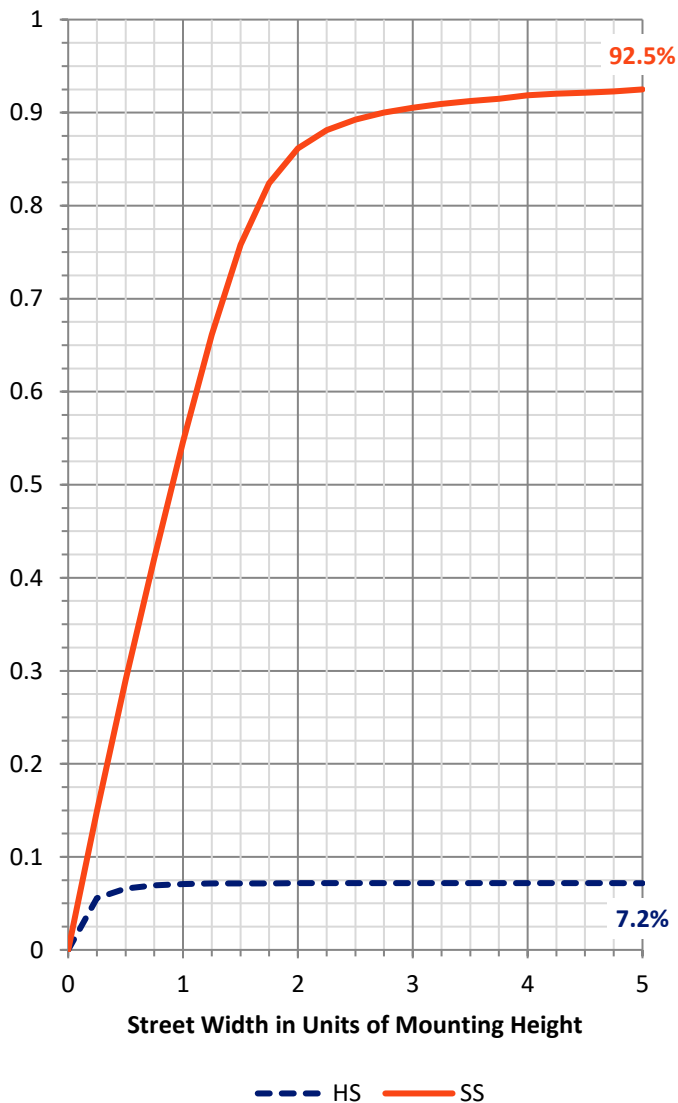
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	768.6	0.0	768.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9882.3	0.0	9882.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	10651.0	0.0	10651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	2.2
10°-20°	494.8	4.6
20°-30°	670.5	6.3
30°-40°	930.0	8.7
40°-50°	1483.3	13.9
50°-60°	2563.9	24.1
60°-70°	2928.8	27.5
70°-80°	1221.0	11.5
80°-90°	129.5	1.2
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°	10651.0	100.0
0°-180°	10651.0	100.0

Coefficient of Utilization



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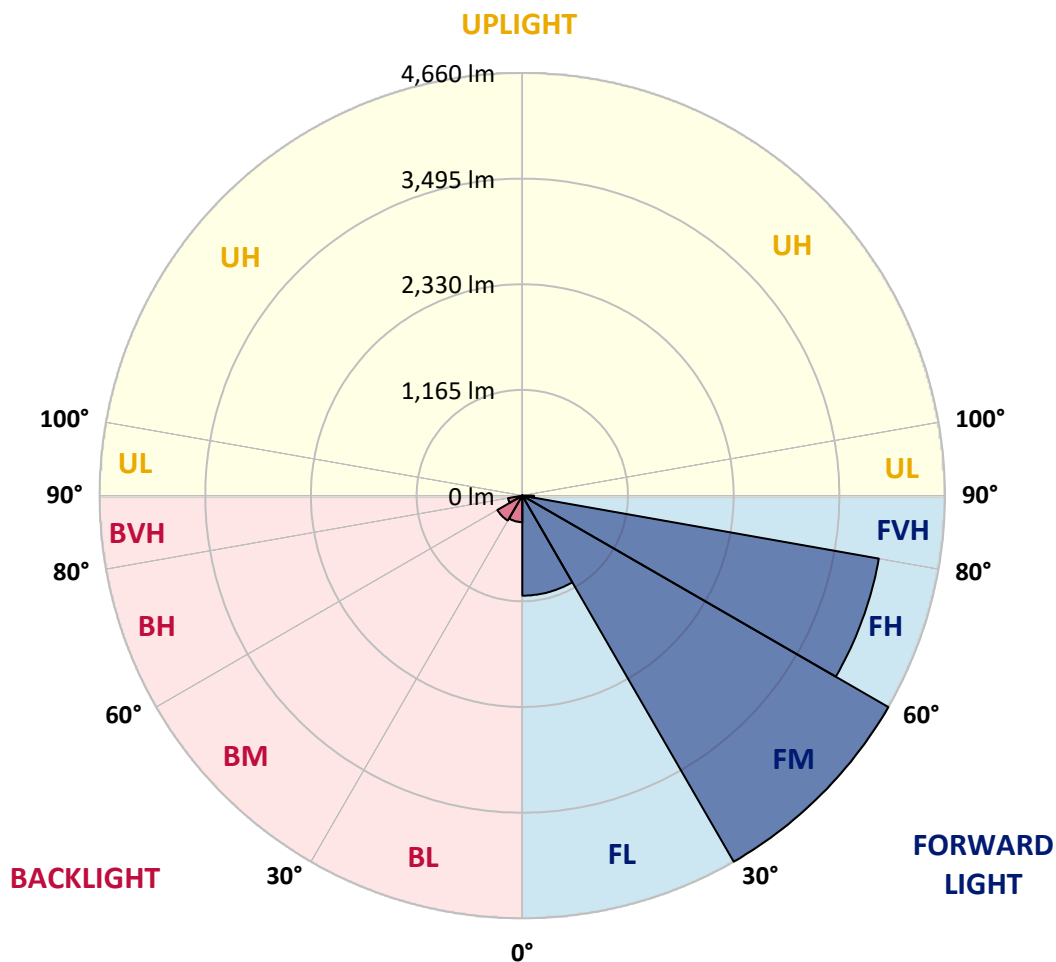
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.6	10.4			
FM (30°-60°)	4660.3	43.8			
FH (60°-80°)	3990.9	37.5			G2/5000
FVH (80°-90°)	128.5	1.2			G2/225
BL (0°-30°)	291.9	2.7	B1/500		
BM (30°-60°)	316.9	3.0	B1/1000		
BH (60°-80°)	158.9	1.5	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5
2.5°	3276.9	3281.8	3263.3	3248.4	3210.0	3168.7	3113.9	3084.7	3034.9	2948.7	2853.4
5°	3353.7	3360.1	3357.3	3353.7	3338.8	3298.9	3229.2	3203.6	3130.2	2990.0	2817.8
7.5°	3182.9	3206.4	3209.2	3237.0	3263.3	3266.9	3240.6	3221.3	3153.7	2989.3	2754.4
10°	2956.6	2972.2	2995.0	3027.0	3090.4	3143.1	3168.7	3165.8	3126.7	2967.3	2680.4
12.5°	2728.1	2736.6	2771.5	2826.3	2903.9	2993.6	3061.9	3075.4	3076.2	2940.9	2618.5
15°	2531.7	2528.1	2555.2	2618.5	2727.4	2839.9	2962.3	2983.6	3017.8	2915.3	2560.8
17.5°	2363.7	2382.2	2386.5	2456.2	2556.6	2702.5	2858.4	2896.1	2964.4	2893.2	2513.2
20°	2259.8	2269.7	2279.0	2318.1	2408.5	2562.3	2760.8	2812.8	2914.6	2873.3	2459.8
22.5°	2229.2	2235.6	2227.8	2239.9	2303.9	2440.6	2654.8	2723.8	2866.9	2854.8	2416.4
25°	2252.7	2259.1	2240.6	2226.3	2248.4	2341.6	2552.3	2636.3	2828.5	2851.2	2383.6
27.5°	2309.6	2321.7	2296.1	2270.5	2257.6	2288.3	2471.9	2569.4	2802.1	2868.3	2368.7
30°	2398.6	2405.7	2386.5	2355.2	2326.0	2295.4	2429.9	2523.1	2795.0	2908.2	2367.3
32.5°	2495.4	2510.3	2499.6	2479.0	2441.3	2368.7	2442.0	2524.6	2812.1	2965.8	2385.0
35°	2614.9	2632.0	2642.0	2637.7	2589.3	2498.9	2518.9	2588.6	2857.6	3071.9	2433.4
37.5°	2732.4	2747.3	2803.6	2822.8	2780.1	2694.7	2668.3	2714.6	2958.0	3210.7	2521.0
40°	2866.9	2886.8	2965.8	3039.1	3018.5	2928.8	2880.4	2918.9	3111.7	3419.9	2686.8
42.5°	2995.7	3031.3	3151.6	3281.1	3300.3	3200.0	3168.0	3180.8	3339.5	3721.0	2918.1
45°	3178.6	3212.1	3367.3	3543.1	3633.4	3555.2	3522.4	3520.3	3652.0	4144.5	3293.2
47.5°	3442.7	3472.6	3655.5	3829.2	3990.0	4000.7	3938.8	3960.1	4044.8	4639.8	3753.0
50°	3766.5	3837.0	3957.3	4138.1	4353.0	4526.7	4545.9	4517.4	4590.0	5213.5	4305.3
52.5°	4237.0	4264.0	4374.4	4523.1	4775.1	5069.7	5298.2	5259.1	5236.3	5760.1	4863.3
55°	4587.9	4624.2	4795.7	5000.0	5369.4	5758.0	6253.4	6266.9	5979.3	6285.4	5409.2
57.5°	4481.8	4537.4	4797.1	5207.8	6019.9	6730.2	7098.9	7108.2	6666.9	6795.7	6025.6
60°	3937.4	3963.7	4335.9	4884.0	6075.4	7783.6	8298.2	8223.5	7366.5	7366.5	6570.1
62.5°	2792.2	2833.4	3135.2	3941.6	5486.8	8149.5	9734.5	9580.1	8330.2	7912.4	6894.6
65°	1784.3	1744.5	1944.5	2488.3	4087.5	7609.2	10985.0	10994.3	9237.0	8130.9	6717.4
67°	1292.5	1276.9	1334.5	1701.1	2771.5	6396.4	11011.4	11498.9	9758.0	7992.9	6150.9
67.5°	1182.2	1194.3	1236.3	1534.5	2518.1	5820.6	10891.8	11469.0	9875.4	7909.6	5945.9
70°	896.1	875.4	921.0	1085.4	1509.6	3671.9	9369.4	10518.8	9729.5	7083.3	4750.9
72.5°	659.1	656.9	720.3	887.5	1162.3	1955.9	7033.4	8434.1	7948.7	5393.6	2991.5
75°	444.8	464.8	565.8	741.6	1053.4	1268.3	4795.0	6118.8	5518.1	3062.6	1222.8
77.5°	253.4	254.8	364.4	595.7	945.9	1020.6	2841.3	3898.2	2921.0	1018.5	363.0
80°	109.6	120.3	180.8	432.7	784.3	903.9	1629.2	2142.3	1181.5	215.7	117.4
82.5°	40.6	47.7	79.7	266.2	572.2	744.5	984.3	1022.8	400.7	76.2	73.3
85°	0.0	1.4	29.2	124.6	298.2	332.4	657.7	606.4	177.2	36.3	47.7
87.5°	0.0	0.0	0.0	12.8	39.1	123.8	204.3	227.8	42.7	12.8	11.4
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°	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5	2823.5
2.5°	2802.1	2755.9	2639.9	2523.8	2437.7	2365.8	2257.6	2198.6	2167.3	2121.0	2123.8
5°	2731.7	2637.7	2433.4	2222.1	2051.2	1884.7	1685.4	1605.0	1537.4	1498.9	1473.3
7.5°	2627.0	2488.3	2185.8	1903.9	1641.3	1350.2	1131.7	985.8	887.5	851.2	816.4
10°	2512.5	2328.1	1934.5	1543.8	1179.4	879.0	693.9	560.1	512.5	468.3	472.6
12.5°	2406.4	2182.2	1703.9	1218.5	826.3	558.7	435.6	380.8	365.1	360.1	360.1
15°	2319.6	2042.7	1456.2	916.0	566.5	401.4	348.8	333.8	328.1	326.7	326.7
17.5°	2227.0	1910.3	1232.7	676.9	412.1	335.9	318.1	308.2	306.0	304.6	304.6
20°	2144.5	1777.2	1020.6	503.9	333.1	302.5	291.1	284.7	282.6	281.1	281.9
22.5°	2066.2	1659.1	821.4	380.8	293.2	275.4	264.1	257.7	253.4	249.8	250.5
25°	1996.4	1545.2	660.5	311.7	264.1	248.4	237.0	227.8	218.5	214.2	213.5
27.5°	1947.3	1445.5	514.6	266.9	237.7	220.6	206.4	195.0	182.9	176.5	175.1
30°	1906.8	1344.5	407.1	235.6	211.4	195.0	177.2	160.9	148.0	141.6	138.8
32.5°	1880.4	1248.4	321.0	210.0	189.3	169.4	149.5	133.1	118.9	112.5	111.0
35°	1876.2	1168.0	262.6	188.6	169.4	148.0	127.4	109.6	97.5	91.1	89.7
37.5°	1906.8	1106.0	219.9	171.5	153.0	129.5	106.8	90.4	79.7	74.7	74.0
40°	1988.6	1066.9	190.7	157.3	138.1	112.5	91.1	76.9	66.2	61.2	61.2
42.5°	2144.5	1068.3	171.5	143.8	123.1	96.1	77.6	64.1	54.8	50.5	49.1
45°	2387.9	1116.7	155.2	130.2	108.9	83.3	66.2	52.7	43.4	39.9	39.9
47.5°	2713.9	1212.8	140.9	116.7	96.1	71.2	56.2	42.7	34.9	31.3	31.3
50°	3140.2	1367.3	128.8	105.3	85.4	61.2	45.6	34.9	27.0	24.2	23.5
52.5°	3585.8	1558.0	114.6	95.4	73.3	52.0	37.0	27.0	20.6	18.5	17.8
55°	4077.6	1744.5	101.1	85.4	59.8	43.4	29.2	21.4	14.9	12.8	12.8
57.5°	4573.7	1927.4	84.7	71.2	47.0	32.0	22.8	15.7	10.0	7.8	7.8
60°	4993.6	1986.5	71.9	57.7	35.6	22.8	16.4	10.0	5.7	3.6	3.6
62.5°	5051.2	1787.2	60.5	44.1	25.6	15.7	8.5	5.7	2.1	1.4	1.4
65°	4738.1	1452.0	50.5	33.5	17.1	7.8	3.6	2.1	0.7	0.0	0.0
67°	4245.5	1177.2	41.3	24.9	12.1	5.0	2.1	0.7	0.0	0.0	0.0
67.5°	4119.6	1122.4	39.9	23.5	10.7	4.3	1.4	0.7	0.0	0.0	0.0
70°	3232.7	840.6	28.5	14.2	6.4	2.8	0.0	0.0	0.0	0.0	0.0
72.5°	2009.2	475.4	20.6	8.5	4.3	1.4	0.0	0.0	0.0	0.0	0.0
75°	759.4	166.5	14.2	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	236.3	63.3	8.5	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	79.7	24.2	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	10.0	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	1.4	0.7	0.0	0.0	0.0	0.0	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)