

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: P453157

Luminaire Tested: **GALN-SA4A-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14249 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

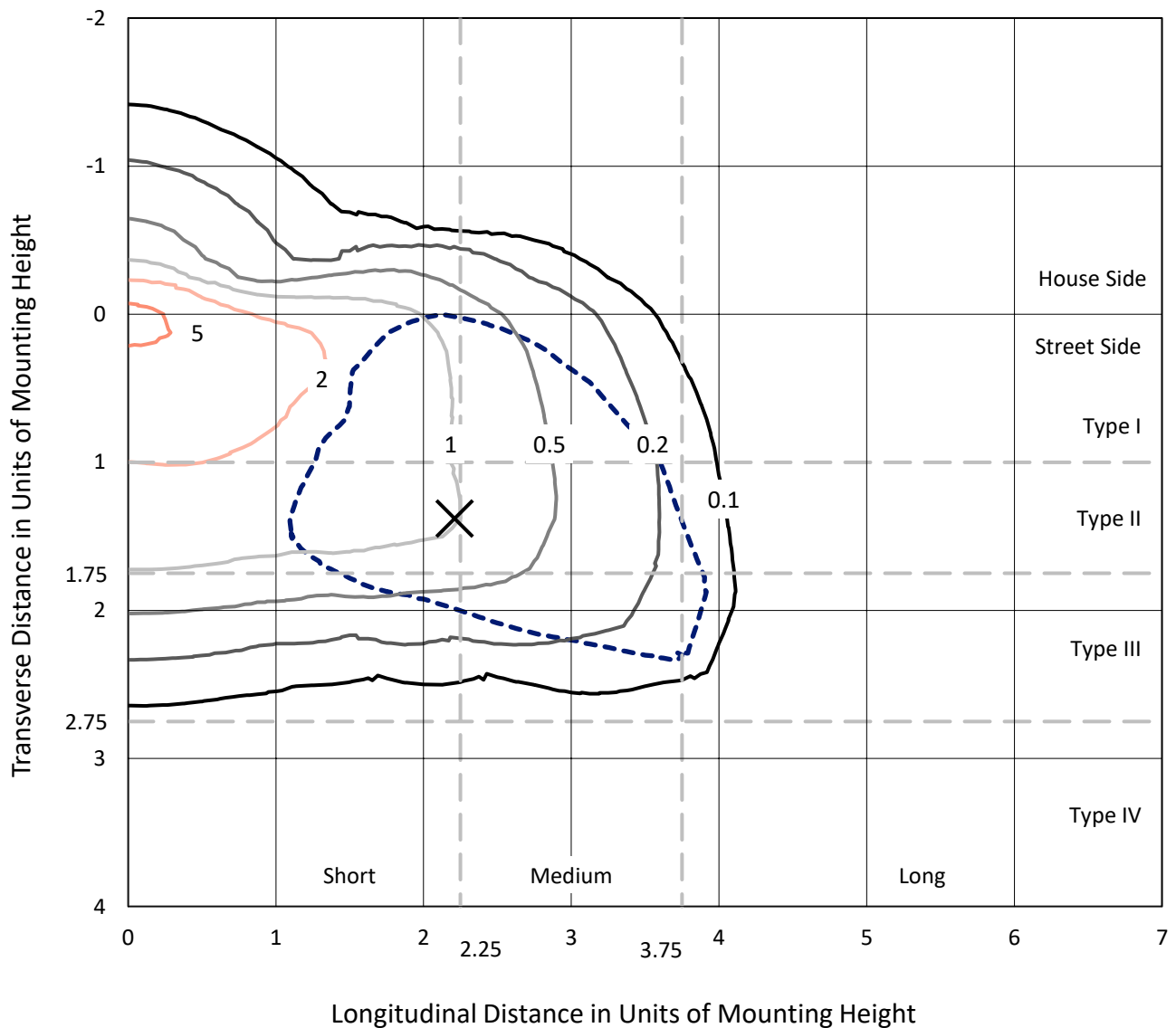
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

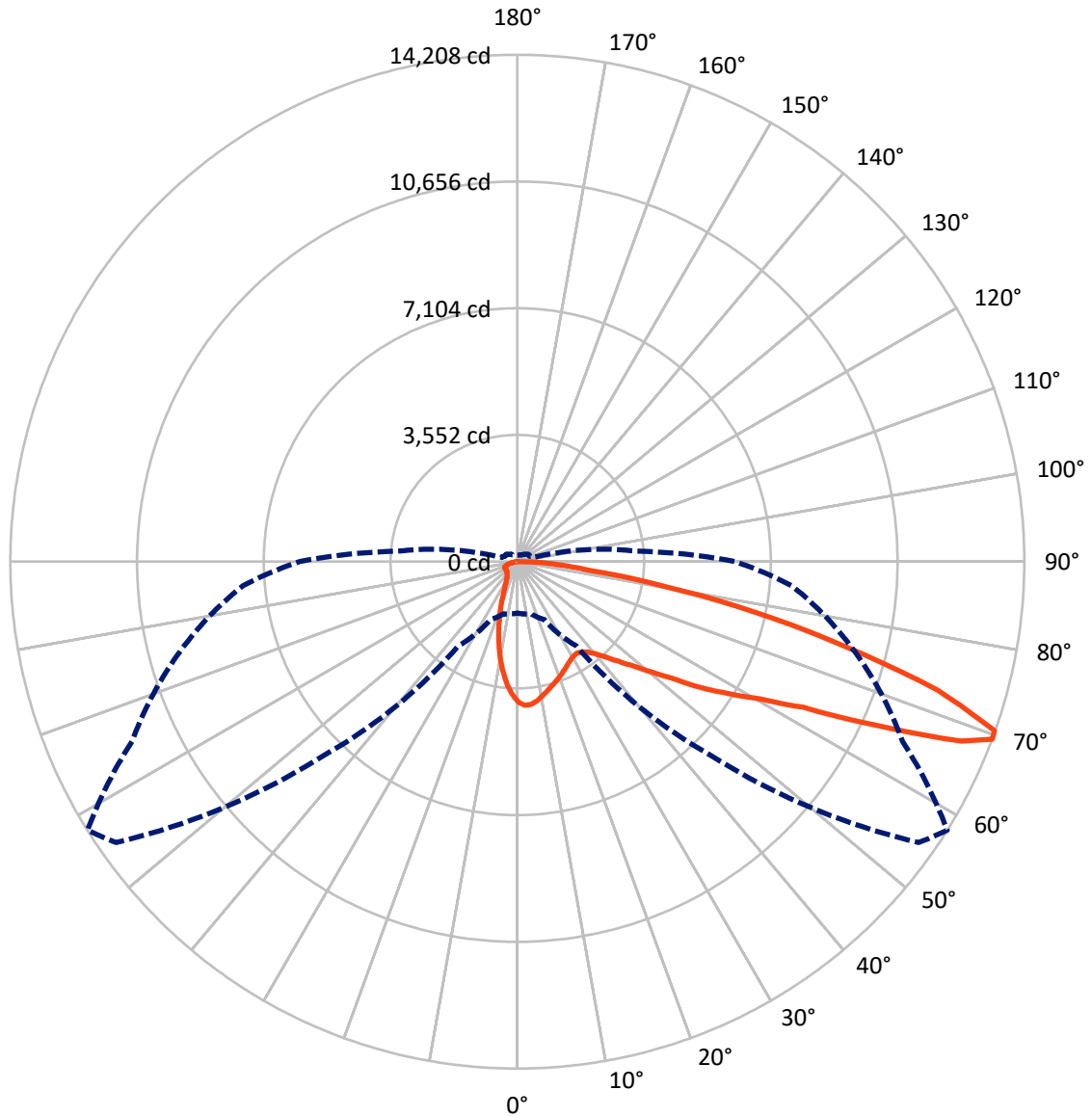
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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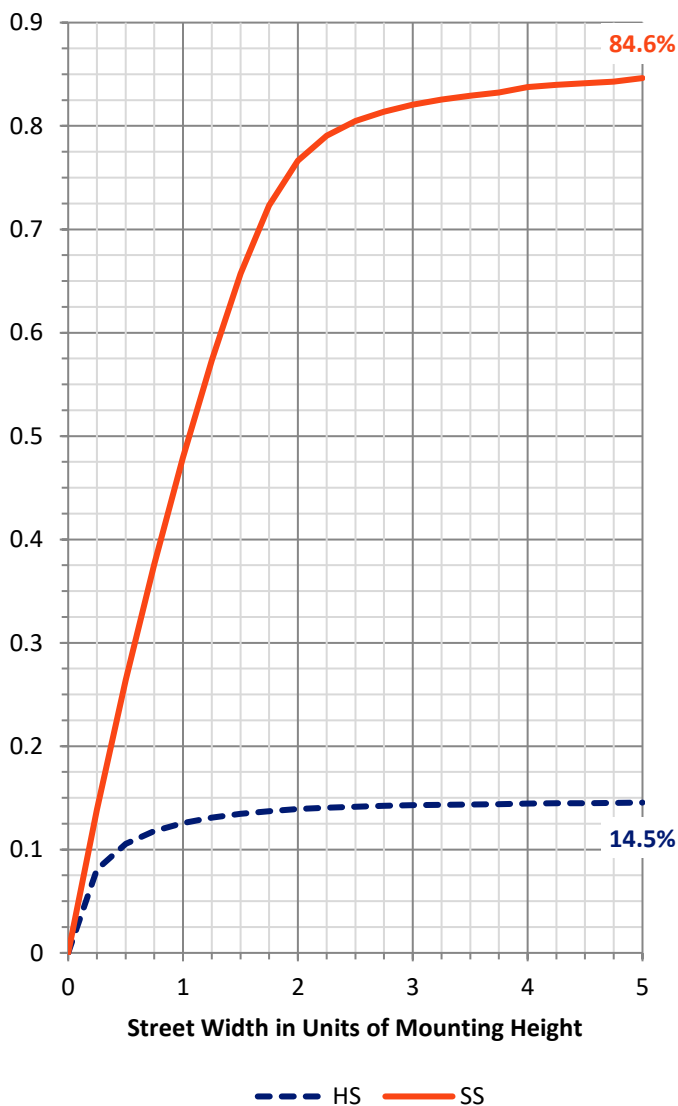
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2088.2	0.0	2088.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12160.8	0.0	12160.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	14249.0	0.0	14249.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.4	2.3
10°-20°	734.3	5.2
20°-30°	948.7	6.7
30°-40°	1232.2	8.6
40°-50°	1791.4	12.6
50°-60°	2858.5	20.1
60°-70°	3818.6	26.8
70°-80°	2201.3	15.4
80°-90°	329.7	2.3
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°	14249.0	100.0
0°-180°	14249.0	100.0



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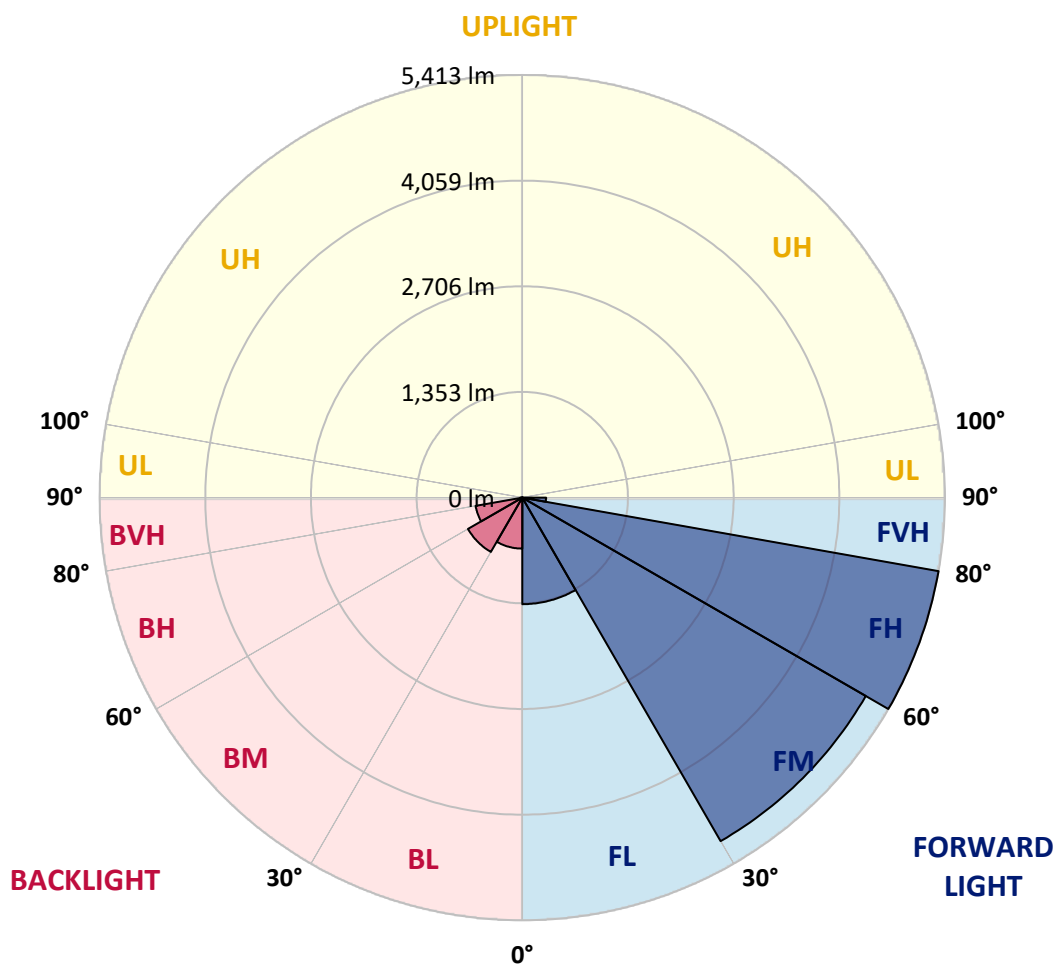
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.7	9.6			
FM (30°-60°)	5079.0	35.6			
FH (60°-80°)	5412.6	38.0			G3/7500
FVH (80°-90°)	304.4	2.1			G3/500
BL (0°-30°)	652.7	4.6	B2/1000		
BM (30°-60°)	803.0	5.6	B1/1000		
BH (60°-80°)	607.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.3	0.2			G1/100
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°	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6
2.5°	4083.8	4094.9	4091.8	4087.8	4081.4	4063.9	4035.3	4030.6	4012.3	3973.3	3924.9
5°	4021.0	4030.6	4031.4	4036.9	4044.9	4041.7	4021.0	4018.6	3991.6	3939.2	3858.1
7.5°	3805.7	3818.4	3846.2	3877.2	3905.0	3931.2	3937.6	3941.6	3924.9	3864.5	3756.4
10°	3563.3	3576.0	3588.7	3634.8	3703.2	3768.3	3822.4	3829.5	3833.5	3777.9	3645.9
12.5°	3294.7	3320.9	3347.9	3416.3	3507.7	3610.2	3705.5	3720.6	3747.7	3705.5	3550.6
15°	3066.6	3093.6	3132.6	3193.8	3304.2	3452.0	3586.3	3611.0	3664.2	3642.8	3461.6
17.5°	2908.5	2918.0	2945.0	3015.0	3134.2	3289.9	3469.5	3518.8	3603.8	3598.3	3385.3
20°	2783.7	2795.6	2812.3	2855.2	2979.2	3143.7	3360.7	3424.2	3539.5	3558.5	3309.8
22.5°	2731.3	2740.0	2737.6	2760.7	2844.9	3010.2	3250.2	3325.7	3482.2	3531.5	3239.9
25°	2734.5	2742.4	2730.5	2724.9	2775.0	2892.6	3135.0	3231.1	3436.2	3513.2	3176.3
27.5°	2787.7	2793.3	2771.0	2748.8	2752.7	2819.5	3039.6	3146.1	3397.2	3521.2	3123.1
30°	2859.2	2869.6	2855.2	2828.2	2798.8	2802.0	2978.4	3083.3	3378.9	3549.0	3097.6
32.5°	2951.4	2960.9	2954.6	2933.1	2895.0	2852.9	2963.3	3060.3	3380.5	3605.4	3092.1
35°	3048.4	3067.4	3077.8	3076.2	3045.2	2972.1	3022.9	3103.2	3418.7	3700.0	3124.6
37.5°	3158.0	3173.9	3218.4	3247.0	3218.4	3133.4	3157.2	3212.9	3502.9	3836.7	3196.2
40°	3264.5	3288.3	3353.5	3442.5	3431.4	3356.7	3362.2	3398.8	3651.5	4040.1	3336.0
42.5°	3375.8	3404.4	3518.0	3649.9	3676.1	3618.1	3633.2	3665.8	3862.9	4322.2	3576.0
45°	3518.8	3553.0	3692.8	3857.3	3960.6	3924.9	3967.8	3983.7	4145.8	4689.3	3892.3
47.5°	3703.2	3742.9	3915.3	4120.4	4266.6	4299.2	4373.9	4364.3	4496.2	5124.0	4302.3
50°	4013.9	4036.1	4199.0	4408.0	4609.1	4756.1	4837.2	4852.3	4930.9	5546.8	4760.9
52.5°	4383.4	4403.3	4520.9	4703.7	4955.6	5267.1	5467.3	5418.1	5437.1	6061.7	5297.3
55°	4799.0	4832.4	4907.1	5028.7	5355.3	5813.8	6215.9	6227.8	6016.4	6554.4	5811.4
57.5°	5120.9	5177.3	5305.2	5478.5	5892.5	6421.7	6962.1	6970.0	6699.9	7080.5	6378.8
60°	4958.7	5025.5	5317.9	5739.9	6597.3	7482.6	7853.7	7808.4	7365.0	7679.7	7071.0
62.5°	4259.4	4271.4	4696.5	5356.1	6814.3	8901.9	9180.8	8989.3	8252.6	8439.4	7774.3
65°	2756.7	2834.6	3171.5	4095.7	6101.5	9689.4	11506.0	11063.4	9497.1	9301.6	8363.1
67.5°	1740.3	1720.5	1860.3	2338.7	4196.7	8995.7	13490.3	13420.4	11124.6	9846.0	8222.4
69°	1443.1	1465.4	1513.1	1792.8	2887.8	7680.5	13724.7	14207.9	11913.7	9803.0	7711.5
70°	1308.8	1319.2	1369.2	1589.3	2228.3	6432.9	13340.1	14186.4	12223.6	9623.5	7341.2
72.5°	1038.6	1037.8	1123.7	1322.3	1665.6	3672.2	10953.7	12316.6	11877.1	8787.5	6065.7
75°	789.1	801.8	896.4	1118.9	1534.5	2006.5	7643.9	9485.2	9486.0	6940.6	3785.0
77.5°	569.0	576.9	687.4	939.3	1445.5	1626.7	5091.5	6803.2	6395.5	3180.3	1189.6
80°	372.7	377.5	461.7	743.8	1303.3	1534.5	3019.0	4164.1	3016.6	843.9	393.4
82.5°	204.2	228.1	282.1	481.6	1045.8	1417.7	1834.9	2107.5	1131.6	375.9	205.0
85°	102.5	108.9	158.9	281.3	683.4	1172.9	1277.8	1208.7	584.1	186.7	106.5
87.5°	30.2	38.1	66.0	108.9	277.3	611.1	711.2	638.1	224.9	67.5	22.3
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°	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6	3937.6
2.5°	3905.0	3890.7	3827.1	3769.9	3717.5	3661.8	3615.0	3573.6	3577.6	3578.4	3536.3
5°	3816.0	3783.4	3662.6	3549.8	3454.4	3333.6	3230.3	3163.6	3130.2	3085.7	3101.6
7.5°	3695.2	3632.4	3464.8	3277.2	3101.6	2945.0	2775.0	2658.2	2583.5	2511.2	2520.7
10°	3570.5	3469.5	3225.6	2977.6	2750.4	2500.0	2283.1	2097.1	1958.9	1907.2	1873.0
12.5°	3442.5	3309.8	2999.9	2670.1	2356.2	2056.6	1749.1	1549.6	1397.0	1316.0	1326.3
15°	3325.7	3164.4	2764.7	2362.6	1954.9	1598.1	1291.3	1101.4	994.9	972.7	985.4
17.5°	3217.6	3006.2	2544.5	2063.8	1587.8	1198.4	970.3	863.0	820.1	808.2	807.4
20°	3106.4	2871.9	2297.4	1744.3	1237.3	929.0	796.3	746.2	738.2	743.0	743.8
22.5°	2993.5	2705.9	2043.1	1427.2	985.4	759.7	696.1	682.6	689.0	700.1	701.7
25°	2889.4	2559.6	1798.3	1149.1	786.7	667.5	636.5	636.5	650.8	667.5	668.3
27.5°	2803.6	2418.2	1554.4	912.3	658.8	600.8	590.4	596.0	615.9	628.6	629.4
30°	2732.9	2286.3	1323.9	731.1	579.3	547.5	545.1	554.7	569.0	580.9	581.7
32.5°	2679.6	2170.2	1108.6	614.3	524.5	507.0	506.2	513.4	521.3	524.5	527.7
35°	2659.0	2074.1	911.5	540.4	487.9	476.8	476.8	476.0	479.2	480.8	482.4
37.5°	2675.7	2000.2	758.9	492.7	460.9	453.0	448.2	443.4	441.8	441.8	442.6
40°	2746.4	1961.2	645.3	461.7	441.8	429.9	421.2	415.6	410.0	411.6	413.2
42.5°	2896.6	1968.4	568.2	441.0	425.1	408.5	395.7	389.4	385.4	390.2	389.4
45°	3135.8	2039.9	518.9	426.7	408.5	387.0	375.1	368.7	368.7	375.9	378.3
47.5°	3470.3	2176.6	492.7	415.6	395.7	370.3	358.4	353.6	355.2	367.1	367.9
50°	3878.8	2414.2	487.9	410.0	389.4	358.4	344.9	340.1	344.1	356.8	358.4
52.5°	4329.4	2720.2	511.0	410.8	383.8	351.2	333.8	326.6	330.6	340.9	344.1
55°	4863.4	3103.2	570.6	414.0	375.9	347.3	325.8	309.9	314.7	321.8	322.6
57.5°	5408.5	3586.3	675.5	414.8	369.5	340.1	312.3	291.6	291.6	296.4	298.8
60°	6074.5	4112.4	813.7	415.6	370.3	329.8	294.0	271.0	267.8	270.2	271.0
62.5°	6735.6	4552.7	836.8	413.2	378.3	319.5	274.2	250.3	244.8	244.0	242.4
65°	7027.3	4470.8	685.8	402.1	387.0	313.1	258.3	230.5	220.9	217.7	217.7
67.5°	6552.1	3781.8	515.7	387.0	381.4	306.7	243.2	213.8	202.6	196.3	196.3
69°	6105.4	3363.8	463.3	376.7	367.1	296.4	233.6	205.0	191.5	184.4	182.0
70°	5760.6	3076.2	441.0	367.9	353.6	284.5	226.5	198.7	183.6	175.6	174.0
72.5°	4597.2	2413.4	386.2	334.6	301.2	239.2	201.1	178.8	164.5	155.8	153.4
75°	2649.4	1308.0	320.3	290.8	242.4	186.0	170.1	155.8	144.6	136.7	134.3
77.5°	815.3	505.4	232.0	229.7	178.0	143.8	135.9	130.3	122.4	113.6	112.0
80°	343.3	257.5	157.3	155.0	118.4	100.1	97.7	96.9	93.8	86.6	84.2
82.5°	188.3	145.4	109.7	95.4	71.5	58.0	60.4	61.2	58.8	51.7	46.9
85°	92.2	79.5	53.2	42.9	32.6	20.7	19.9	23.8	22.3	15.9	17.5
87.5°	18.3	22.3	14.3	6.4	3.2	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)