

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: P458724

Luminaire Tested: **GALN-SA2D-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458724
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-SA2D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 11988 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

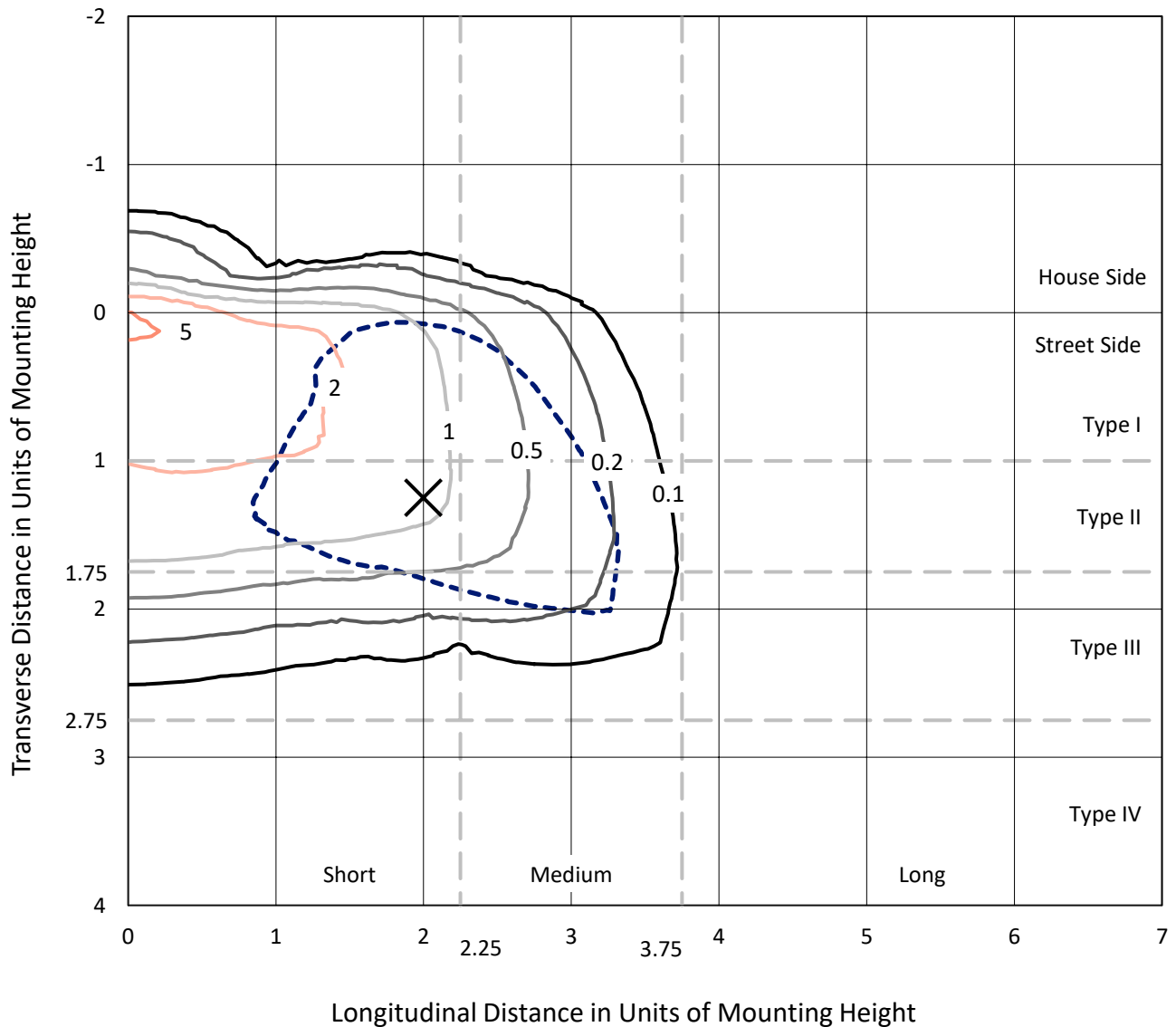
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458724
 CATALOG NUMBER: GALN-SA2D-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

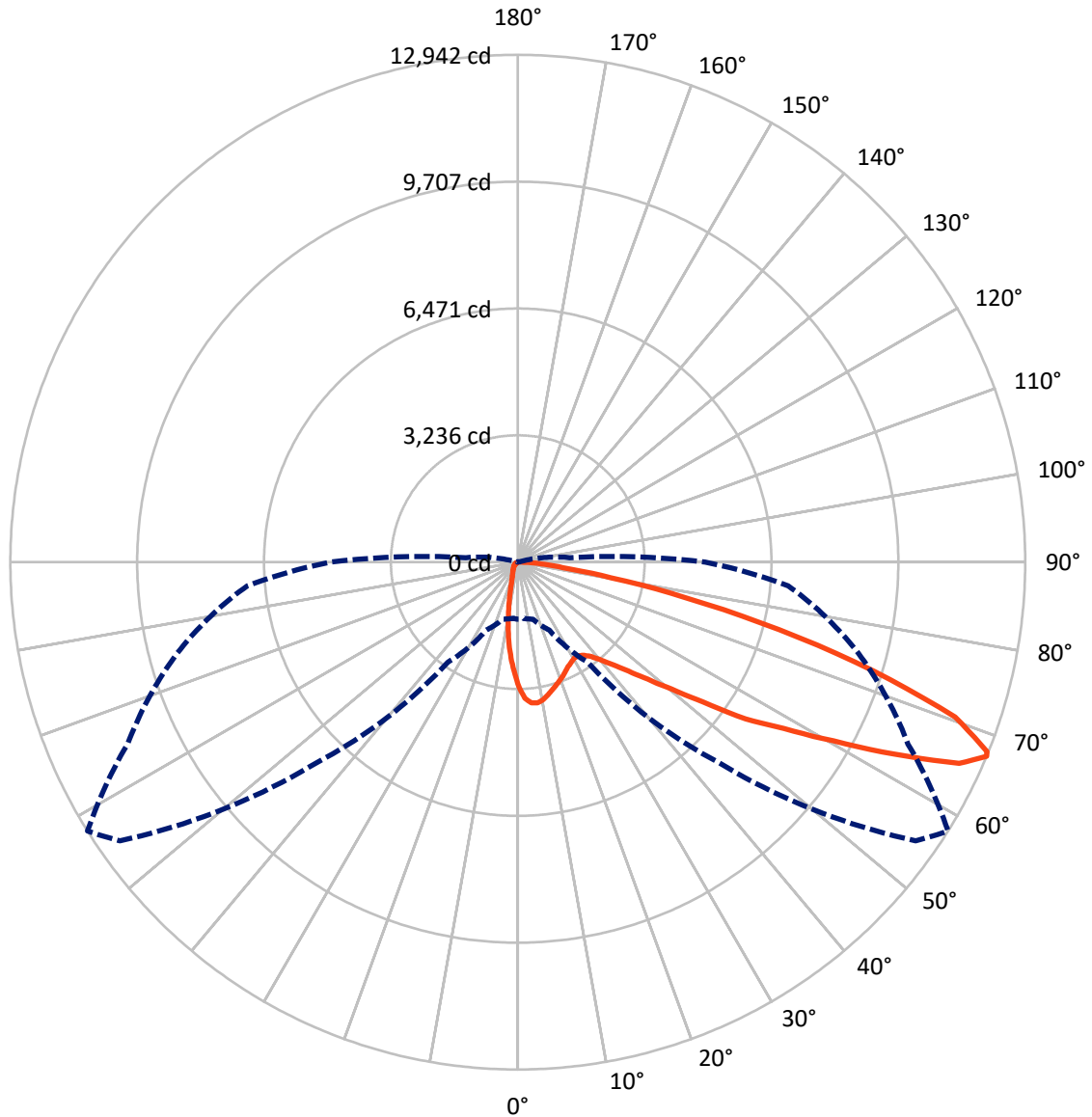
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

REPORT NUMBER: P458724
CATALOG NUMBER: GALN-SA2D-735-U-SL3-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P458724

CATALOG NUMBER: GALN-SA2D-735-U-SL3-HSS

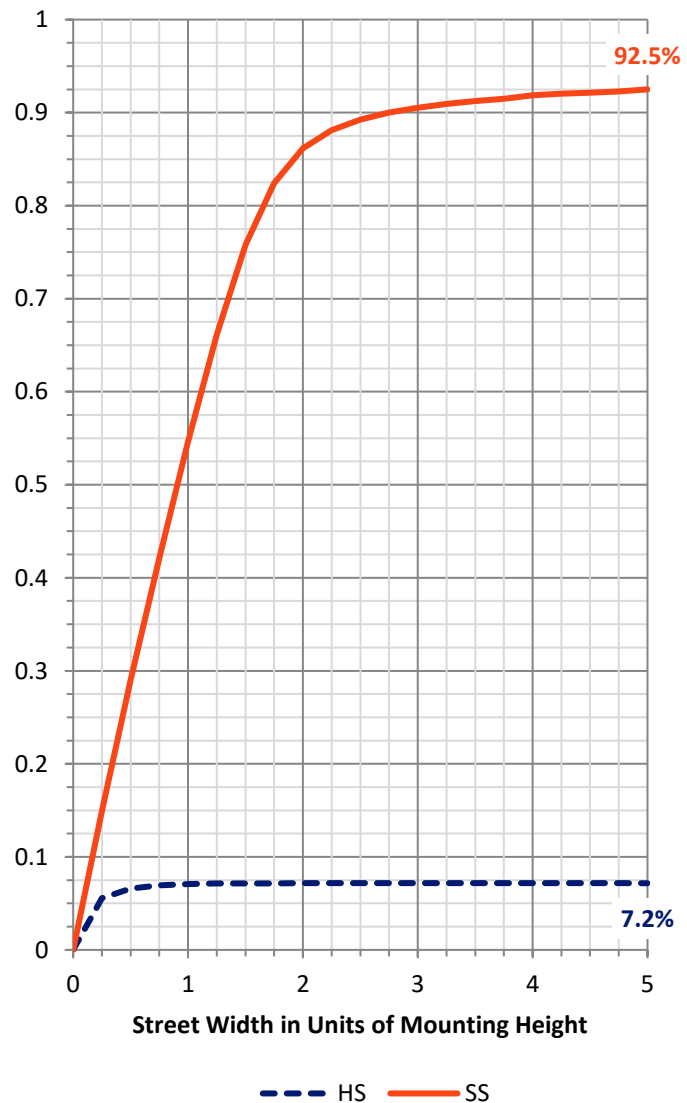
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.1	0.0	865.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11122.9	0.0	11122.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	11988.0	0.0	11988.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	2.2
10°-20°	557.0	4.6
20°-30°	754.7	6.3
30°-40°	1046.7	8.7
40°-50°	1669.4	13.9
50°-60°	2885.8	24.1
60°-70°	3296.4	27.5
70°-80°	1374.3	11.5
80°-90°	145.7	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°	11988.0	100.0
0°-180°	11988.0	100.0



REPORT NUMBER: P458724

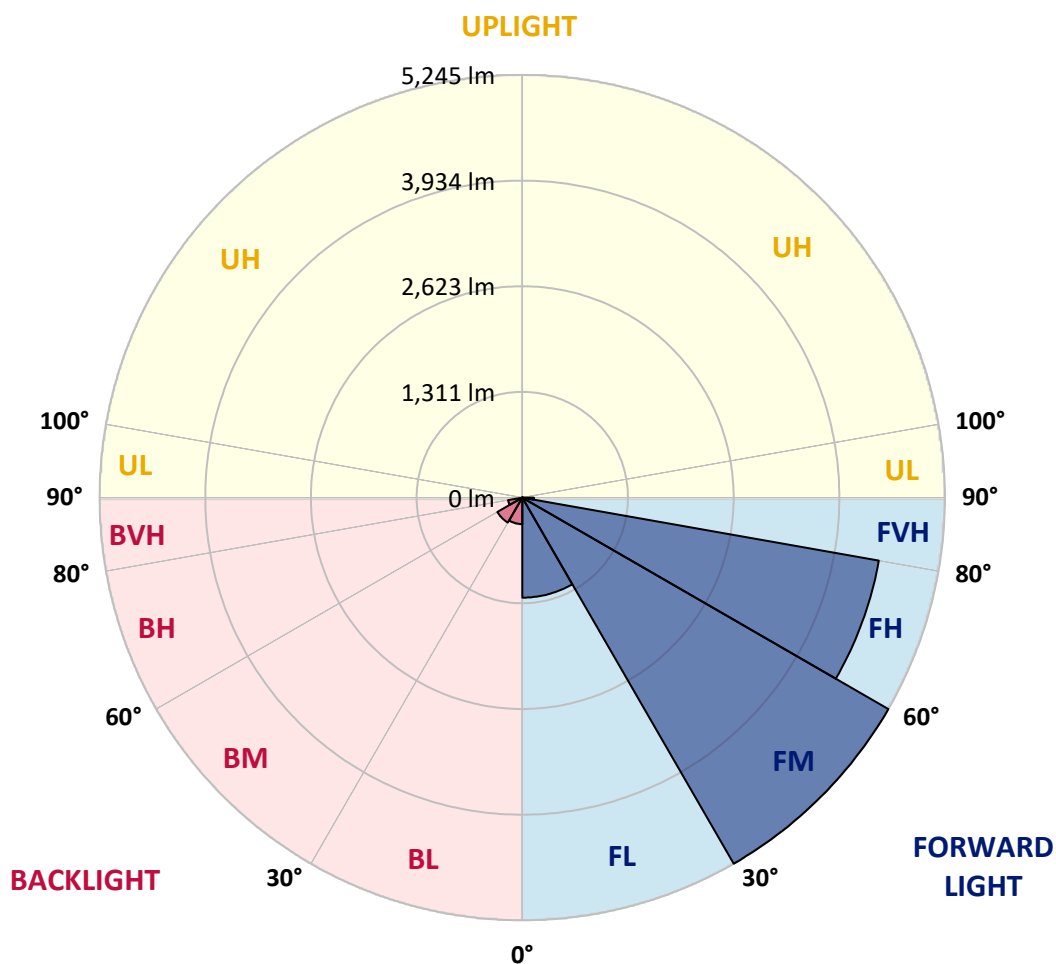
CATALOG NUMBER: GALN-SA2D-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.0	10.4			
FM (30°-60°)	5245.2	43.8			
FH (60°-80°)	4491.9	37.5			G2/5000
FVH (80°-90°)	144.7	1.2			G2/225
BL (0°-30°)	328.5	2.7	B1/500		
BM (30°-60°)	356.7	3.0	B1/1000		
BH (60°-80°)	178.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.1	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





REPORT NUMBER: P458724

CATALOG NUMBER: GALN-SA2D-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9
2.5°	3688.2	3693.8	3673.0	3656.2	3612.9	3566.4	3504.8	3471.9	3415.8	3318.9	3211.6
5°	3774.7	3781.9	3778.7	3774.7	3757.9	3713.0	3634.5	3605.7	3523.2	3365.4	3171.5
7.5°	3582.5	3608.9	3612.1	3643.3	3673.0	3677.0	3647.3	3625.7	3549.6	3364.6	3100.2
10°	3327.7	3345.3	3371.0	3407.0	3478.3	3537.6	3566.4	3563.2	3519.2	3339.7	3016.9
12.5°	3070.6	3080.2	3119.4	3181.1	3268.4	3369.4	3446.3	3461.5	3462.3	3310.1	2947.2
15°	2849.5	2845.5	2875.9	2947.2	3069.8	3196.3	3334.1	3358.2	3396.6	3281.2	2882.3
17.5°	2660.4	2681.2	2686.0	2764.5	2877.5	3041.7	3217.2	3259.6	3336.5	3256.4	2828.6
20°	2543.4	2554.7	2565.1	2609.1	2710.9	2883.9	3107.4	3165.9	3280.4	3234.0	2768.6
22.5°	2509.0	2516.2	2507.4	2521.0	2593.1	2746.9	2988.1	3065.8	3226.8	3213.2	2719.7
25°	2535.4	2542.6	2521.8	2505.8	2530.6	2635.6	2872.7	2967.2	3183.5	3209.2	2682.8
27.5°	2599.5	2613.1	2584.3	2555.5	2541.0	2575.5	2782.2	2891.9	3153.9	3228.4	2666.0
30°	2699.7	2707.7	2686.0	2650.8	2617.9	2583.5	2734.9	2839.9	3145.9	3273.2	2664.4
32.5°	2808.6	2825.4	2813.4	2790.2	2747.7	2666.0	2748.5	2841.5	3165.1	3338.1	2684.4
35°	2943.2	2962.4	2973.6	2968.8	2914.4	2812.6	2835.0	2913.6	3216.4	3457.5	2738.9
37.5°	3075.4	3092.2	3155.5	3177.1	3129.0	3032.9	3003.3	3055.3	3329.3	3613.7	2837.4
40°	3226.8	3249.2	3338.1	3420.6	3397.4	3296.5	3242.0	3285.3	3502.3	3849.2	3024.1
42.5°	3371.8	3411.8	3547.2	3693.0	3714.6	3601.7	3565.6	3580.1	3758.7	4188.1	3284.5
45°	3577.7	3615.3	3789.9	3987.8	4089.5	4001.4	3964.6	3962.2	4110.4	4664.7	3706.6
47.5°	3874.9	3908.5	4114.4	4309.8	4490.9	4502.9	4433.2	4457.2	4552.6	5222.3	4224.1
50°	4239.3	4318.7	4454.0	4657.5	4899.4	5094.9	5116.5	5084.5	5166.2	5868.0	4845.8
52.5°	4768.9	4799.3	4923.5	5090.9	5374.5	5706.1	5963.3	5919.2	5893.6	6483.2	5473.8
55°	5163.8	5204.7	5397.7	5627.6	6043.4	6480.8	7038.3	7053.6	6729.9	7074.4	6088.3
57.5°	5044.4	5106.9	5399.3	5861.5	6775.6	7575.1	7990.0	8000.4	7503.8	7648.8	6782.0
60°	4431.6	4461.2	4880.2	5497.1	6838.1	8760.7	9339.9	9255.7	8291.2	8291.2	7394.8
62.5°	3142.7	3189.1	3528.8	4436.4	6175.6	9172.4	10956.5	10782.6	9375.9	8905.7	7760.1
65°	2008.3	1963.5	2188.6	2800.6	4600.6	8564.4	12364.0	12374.4	10396.5	9151.6	7560.7
67°	1454.8	1437.1	1502.0	1914.6	3119.4	7199.4	12393.6	12942.3	10982.9	8996.2	6923.0
67.5°	1330.6	1344.2	1391.5	1727.1	2834.2	6551.3	12259.0	12908.7	11115.1	8902.5	6692.3
70°	1008.6	985.3	1036.6	1221.7	1699.1	4132.8	10545.5	11839.3	10950.8	7972.4	5347.2
72.5°	741.8	739.4	810.7	999.0	1308.2	2201.4	7916.3	9492.9	8946.5	6070.6	3367.0
75°	500.7	523.1	636.9	834.7	1185.6	1427.5	5396.9	6886.9	6210.8	3447.1	1376.3
77.5°	285.2	286.8	410.2	670.5	1064.6	1148.8	3197.9	4387.5	3287.7	1146.4	408.6
80°	123.4	135.4	203.5	487.1	882.8	1017.4	1833.7	2411.3	1329.8	242.7	132.2
82.5°	45.7	53.7	89.7	299.6	644.1	837.9	1107.9	1151.2	451.0	85.7	82.5
85°	0.0	1.6	32.8	140.2	335.7	374.1	740.2	682.5	199.5	40.9	53.7
87.5°	0.0	0.0	0.0	14.4	44.1	139.4	229.9	256.3	48.1	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458724
 CATALOG NUMBER: GALN-SA2D-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9	3177.9
2.5°	3153.9	3101.8	2971.2	2840.7	2743.7	2662.8	2541.0	2474.6	2439.3	2387.2	2390.4
5°	3074.6	2968.8	2738.9	2501.0	2308.7	2121.3	1897.0	1806.4	1730.3	1687.1	1658.2
7.5°	2956.8	2800.6	2460.1	2142.9	1847.3	1519.7	1273.7	1109.5	999.0	958.1	918.8
10°	2827.8	2620.4	2177.4	1737.6	1327.4	989.3	781.1	630.5	576.8	527.1	531.9
12.5°	2708.5	2456.1	1917.8	1371.5	930.1	628.9	490.3	428.6	411.0	405.3	405.3
15°	2610.7	2299.1	1639.0	1031.0	637.7	451.8	392.5	375.7	369.3	367.7	367.7
17.5°	2506.6	2150.1	1387.5	761.8	463.8	378.1	358.1	346.9	344.5	342.9	342.9
20°	2413.7	2000.3	1148.8	567.2	374.9	340.5	327.6	320.4	318.0	316.4	317.2
22.5°	2325.6	1867.3	924.5	428.6	330.0	310.0	297.2	290.0	285.2	281.2	282.0
25°	2247.0	1739.2	743.4	350.9	297.2	279.6	266.8	256.3	245.9	241.1	240.3
27.5°	2191.8	1627.0	579.2	300.4	267.6	248.3	232.3	219.5	205.9	198.7	197.1
30°	2146.1	1513.3	458.2	265.2	237.9	219.5	199.5	181.0	166.6	159.4	156.2
32.5°	2116.5	1405.1	361.3	236.3	213.1	190.7	168.2	149.8	133.8	126.6	125.0
35°	2111.7	1314.6	295.6	212.3	190.7	166.6	143.4	123.4	109.7	102.5	100.9
37.5°	2146.1	1244.9	247.5	193.1	172.2	145.8	120.2	101.7	89.7	84.1	83.3
40°	2238.2	1200.8	214.7	177.0	155.4	126.6	102.5	86.5	74.5	68.9	68.9
42.5°	2413.7	1202.4	193.1	161.8	138.6	108.1	87.3	72.1	61.7	56.9	55.3
45°	2687.6	1256.9	174.6	146.6	122.6	93.7	74.5	59.3	48.9	44.9	44.9
47.5°	3054.5	1365.1	158.6	131.4	108.1	80.1	63.3	48.1	39.3	35.2	35.2
50°	3534.4	1538.9	145.0	118.6	96.1	68.9	51.3	39.3	30.4	27.2	26.4
52.5°	4035.9	1753.6	129.0	107.3	82.5	58.5	41.7	30.4	23.2	20.8	20.0
55°	4589.4	1963.5	113.8	96.1	67.3	48.9	32.8	24.0	16.8	14.4	14.4
57.5°	5147.8	2169.3	95.3	80.1	52.9	36.0	25.6	17.6	11.2	8.8	8.8
60°	5620.4	2235.8	80.9	64.9	40.1	25.6	18.4	11.2	6.4	4.0	4.0
62.5°	5685.3	2011.5	68.1	49.7	28.8	17.6	9.6	6.4	2.4	1.6	1.6
65°	5332.8	1634.2	56.9	37.7	19.2	8.8	4.0	2.4	0.8	0.0	0.0
67°	4778.5	1325.0	46.5	28.0	13.6	5.6	2.4	0.8	0.0	0.0	0.0
67.5°	4636.7	1263.3	44.9	26.4	12.0	4.8	1.6	0.8	0.0	0.0	0.0
70°	3638.5	946.1	32.0	16.0	7.2	3.2	0.0	0.0	0.0	0.0	0.0
72.5°	2261.5	535.1	23.2	9.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0
75°	854.8	187.5	16.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	266.0	71.3	9.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	89.7	27.2	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.3	11.2	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.4	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	1.6	0.8	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)