

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: P452661

Luminaire Tested: **GALN-SA3C-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12627 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

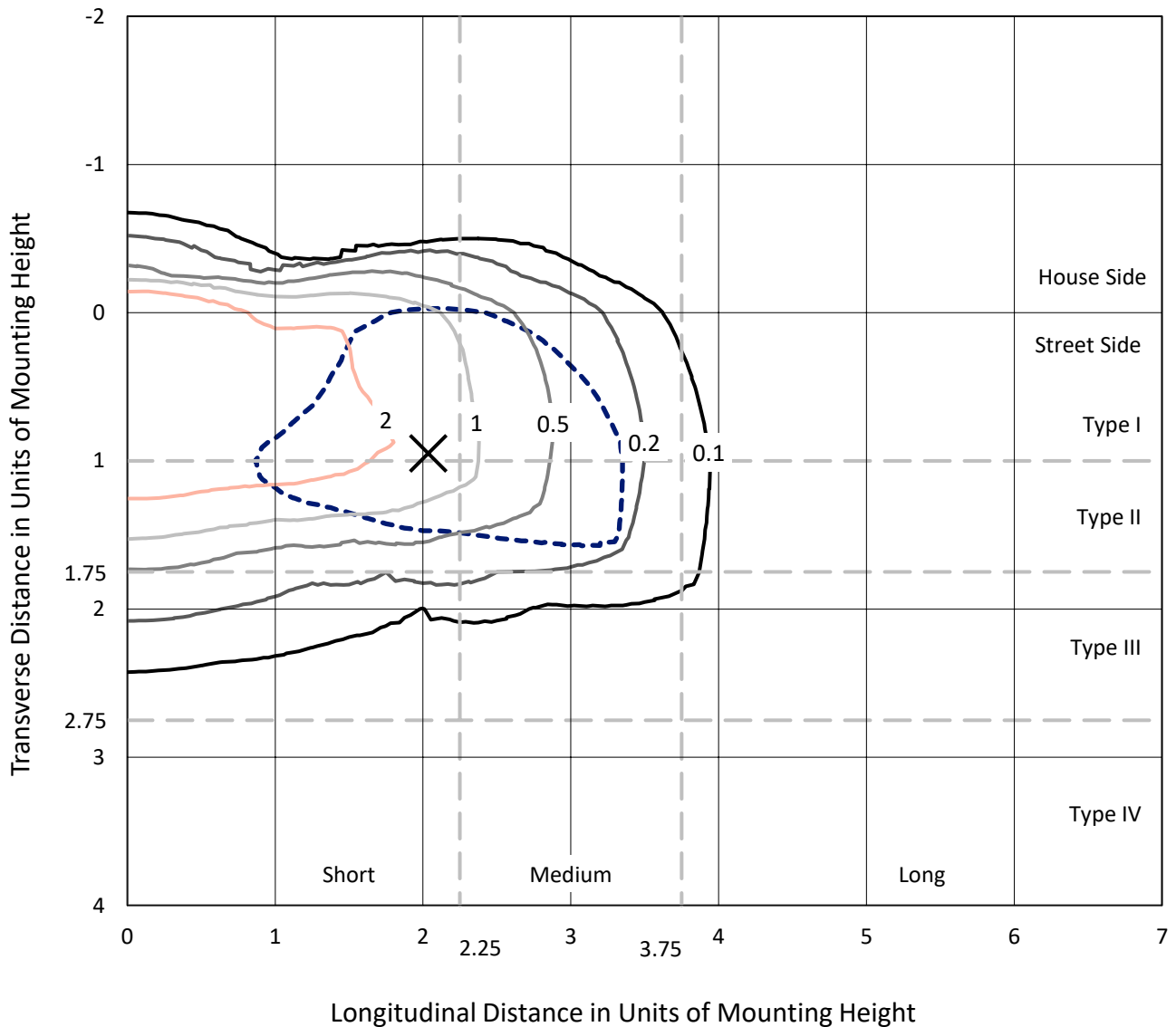
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452661
 CATALOG NUMBER: GALN-SA3C-827-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

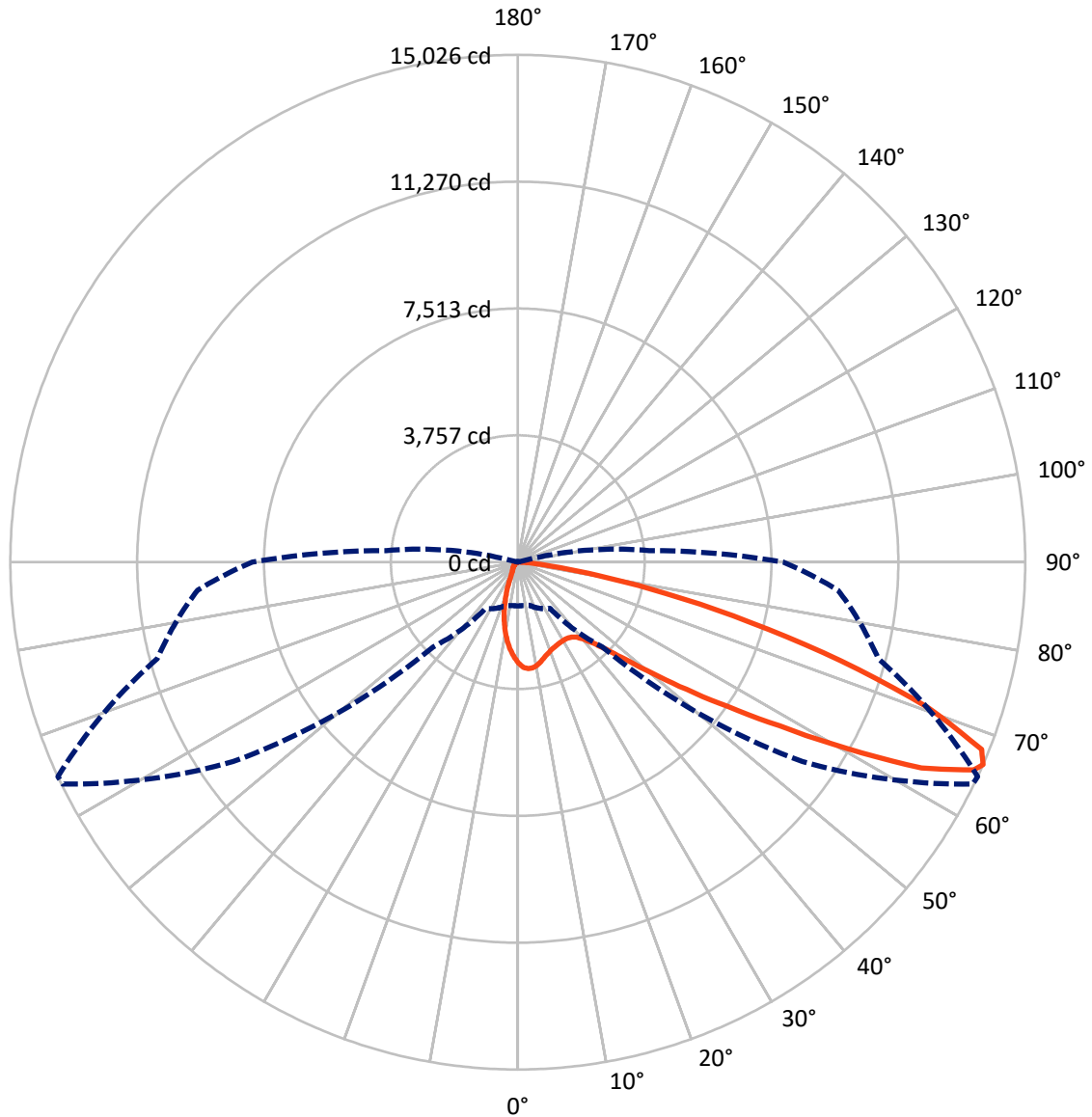
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P452661
CATALOG NUMBER: GALN-SA3C-827-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P452661

CATALOG NUMBER: GALN-SA3C-827-U-SL2-HSS

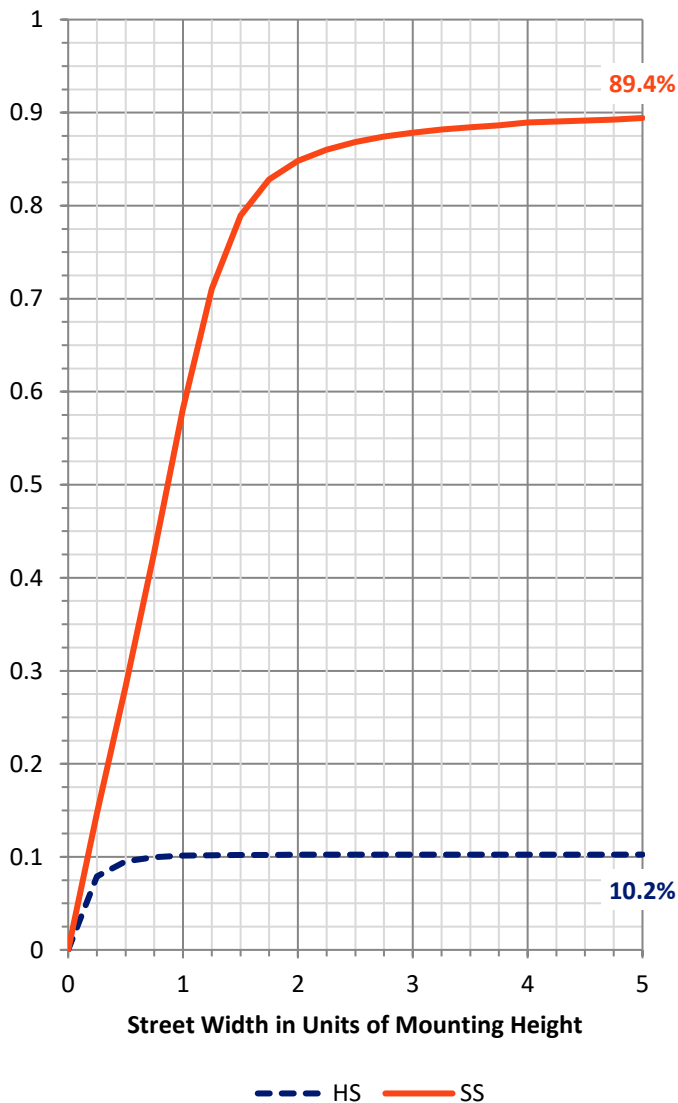
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.8	0.0	1305.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	11321.2	0.0	11321.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	12627.0	0.0	12627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	1.9
10°-20°	533.6	4.2
20°-30°	764.4	6.1
30°-40°	1116.4	8.8
40°-50°	1872.0	14.8
50°-60°	3124.1	24.7
60°-70°	3316.1	26.3
70°-80°	1501.9	11.9
80°-90°	153.7	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°	12627.0	100.0
0°-180°	12627.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452661

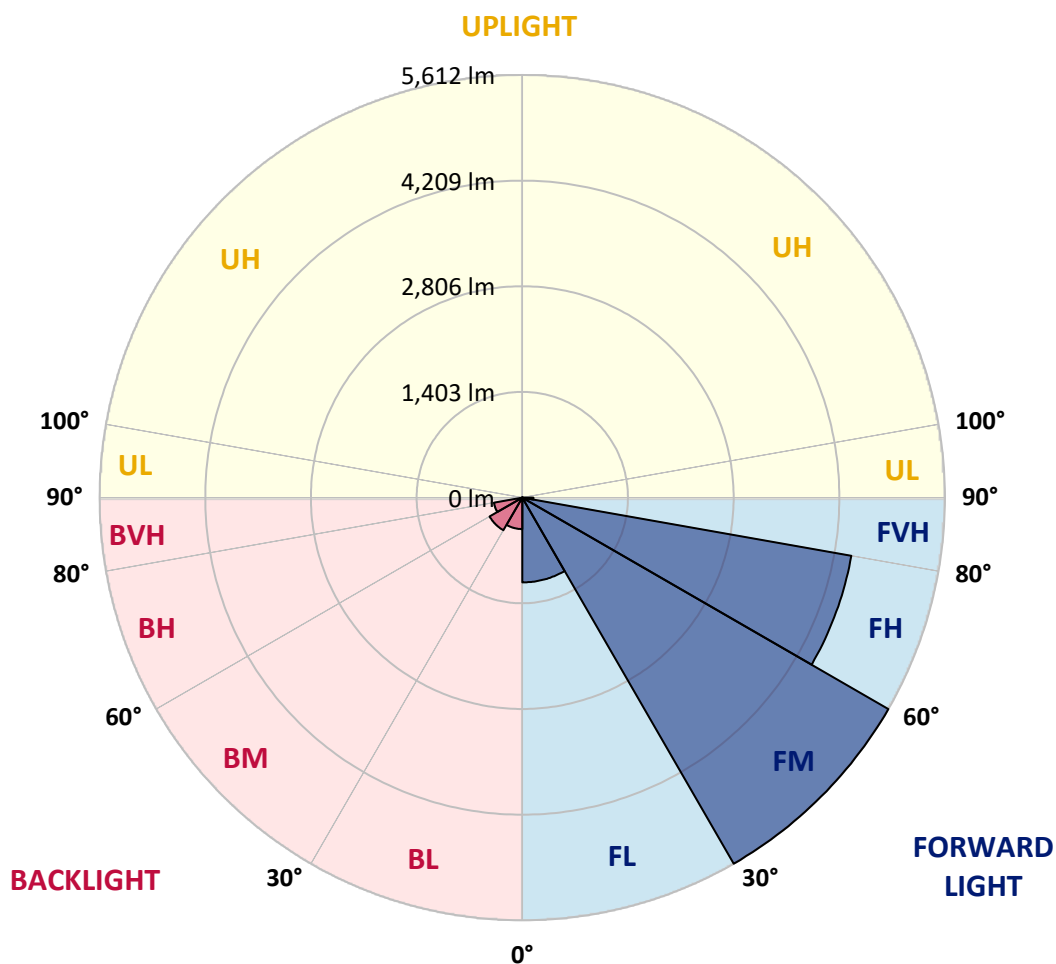
CATALOG NUMBER: GALN-SA3C-827-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.1	8.9			
FM (30°-60°)	5611.7	44.4			
FH (60°-80°)	4435.6	35.1			G2/5000
FVH (80°-90°)	148.8	1.2			G2/225
BL (0°-30°)	417.7	3.3	B1/500		
BM (30°-60°)	500.8	4.0	B1/1000		
BH (60°-80°)	382.4	3.0	B1/500		G1/500
BVH (80°-90°)	4.9	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 II Short





REPORT NUMBER: P452661

CATALOG NUMBER: GALN-SA3C-827-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3
2.5°	3155.5	3158.9	3163.2	3169.2	3173.4	3160.6	3142.7	3122.3	3118.0	3074.5	3021.6
5°	2986.7	2991.8	3029.3	3049.8	3095.8	3137.6	3164.0	3167.5	3165.7	3124.8	3040.4
7.5°	2746.2	2760.6	2797.3	2833.1	2919.3	2998.6	3092.4	3158.1	3162.3	3151.3	3046.4
10°	2550.8	2560.2	2579.0	2649.8	2721.4	2842.5	2973.9	3097.5	3107.8	3152.1	3041.2
12.5°	2398.2	2411.8	2434.9	2489.4	2575.6	2689.9	2839.1	3005.4	3026.7	3135.9	3026.7
15°	2291.6	2298.4	2321.4	2375.2	2458.7	2564.5	2715.4	2909.0	2927.8	3114.6	3024.2
17.5°	2241.3	2248.9	2265.1	2307.8	2376.9	2474.9	2622.5	2831.4	2855.3	3100.9	3033.6
20°	2254.9	2261.7	2262.6	2284.8	2331.7	2414.4	2554.3	2758.9	2789.6	3092.4	3048.9
22.5°	2332.5	2333.4	2323.1	2312.9	2329.1	2388.8	2512.5	2712.9	2744.4	3090.7	3066.8
25°	2448.5	2451.1	2434.0	2398.2	2365.8	2396.5	2503.1	2683.0	2711.2	3086.4	3077.9
27.5°	2608.8	2608.0	2602.9	2543.2	2451.1	2430.6	2510.8	2666.8	2690.7	3074.5	3082.2
30°	2833.1	2826.3	2815.2	2747.9	2607.1	2513.3	2543.2	2656.6	2678.8	3057.4	3071.1
32.5°	3054.0	3079.6	3077.9	3013.9	2838.3	2660.9	2610.5	2670.2	2686.5	3046.4	3054.9
35°	3311.6	3310.7	3376.4	3352.5	3147.0	2849.3	2725.7	2715.4	2728.2	3054.0	3047.2
37.5°	3550.4	3572.6	3674.9	3699.6	3512.0	3115.4	2888.6	2812.7	2816.9	3106.0	3066.0
40°	3848.0	3890.7	4043.3	4126.0	3960.6	3510.3	3129.1	2990.9	2991.8	3234.0	3136.8
42.5°	4231.8	4299.2	4441.6	4579.8	4491.1	3977.7	3489.8	3273.2	3271.5	3459.1	3298.8
45°	4698.3	4745.2	4907.3	5126.4	5070.1	4630.1	4015.2	3710.7	3688.5	3828.4	3586.2
47.5°	5100.8	5164.8	5329.4	5579.3	5835.1	5426.6	4642.9	4312.0	4297.5	4416.0	4079.1
50°	5276.5	5332.8	5505.9	5856.5	6476.5	6472.2	5577.6	5189.5	5164.8	5228.8	4841.6
52.5°	5083.8	5136.7	5311.5	5748.2	6778.4	7746.4	6931.9	6290.6	6260.7	6178.8	5752.4
55°	4423.7	4467.2	4725.6	5227.1	6662.4	8595.8	8797.9	7650.8	7534.9	7216.7	6783.5
57.5°	3522.2	3500.1	3660.4	4242.9	5981.8	8880.6	10713.4	9345.4	9138.2	8113.9	7656.0
60°	2440.8	2509.1	2573.9	2957.7	4497.9	8386.8	11904.8	11475.8	11202.9	8996.6	8491.7
62.5°	1794.4	1839.6	1882.2	2059.6	2828.0	6696.5	12115.5	13664.2	13422.0	9933.9	9289.2
65°	1419.1	1422.5	1439.6	1614.4	1863.5	4354.6	11103.1	14898.3	14836.0	10836.2	9612.4
66°	1292.9	1293.8	1320.2	1507.8	1672.4	3546.1	10292.1	14992.1	15026.2	11052.8	9517.7
67.5°	1130.0	1126.6	1165.0	1355.2	1523.2	2556.8	8840.6	14611.7	14813.9	11219.1	9177.4
70°	875.9	871.6	918.5	1136.8	1402.9	1705.7	5876.1	12546.2	12871.9	10878.8	8119.9
72.5°	583.3	586.8	666.9	897.2	1339.0	1501.9	3535.0	9544.2	10004.7	8983.8	6387.8
75°	340.3	346.3	437.5	666.9	1162.4	1431.9	2000.8	6805.7	7099.9	6203.6	3979.4
77.5°	178.2	180.8	244.8	440.1	891.2	1329.6	1333.0	4347.8	4485.9	3014.8	1575.2
80°	94.7	92.1	131.3	265.2	613.2	1167.5	1081.4	2301.8	2393.1	895.5	398.3
82.5°	35.8	39.2	69.9	174.0	362.5	838.3	931.3	1017.4	985.9	197.0	167.2
85°	6.8	8.5	29.8	103.2	182.5	350.5	686.5	498.9	462.2	74.2	96.4
87.5°	0.9	1.7	8.5	24.7	26.4	118.5	203.0	138.2	119.4	27.3	40.1
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: P452661
 CATALOG NUMBER: GALN-SA3C-827-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3	2994.3
2.5°	2996.0	2973.0	2896.3	2820.3	2742.7	2672.8	2625.0	2547.4	2527.8	2499.7	2483.5
5°	2990.1	2936.3	2788.8	2627.6	2477.5	2315.5	2191.8	2072.4	2008.4	1976.0	1964.1
7.5°	2973.0	2887.7	2657.5	2405.0	2164.5	1922.3	1711.7	1551.3	1448.1	1377.3	1329.6
10°	2938.9	2821.2	2504.8	2157.7	1794.4	1474.6	1207.6	1004.6	847.7	798.3	800.0
12.5°	2903.9	2747.0	2334.2	1883.1	1432.8	1029.4	746.2	585.9	510.9	486.1	481.0
15°	2871.5	2676.2	2167.1	1617.0	1066.9	666.9	481.0	424.7	404.2	400.0	399.1
17.5°	2854.5	2610.5	1988.8	1312.5	744.5	452.9	385.5	370.1	364.2	359.9	358.2
20°	2840.0	2553.4	1818.3	1027.7	509.1	371.0	345.4	330.9	320.7	316.4	313.8
22.5°	2829.7	2494.6	1641.7	795.7	389.7	329.2	306.2	287.4	272.9	267.8	264.4
25°	2814.4	2429.7	1463.5	581.6	328.3	292.5	266.1	243.9	225.2	215.8	214.1
27.5°	2792.2	2356.4	1268.2	430.7	293.4	260.1	227.7	200.4	181.7	171.4	172.3
30°	2756.4	2279.6	1072.9	342.0	265.2	226.9	191.9	165.5	147.5	139.9	139.0
32.5°	2713.7	2186.7	893.8	293.4	239.6	197.0	160.3	137.3	123.7	117.7	116.8
35°	2673.7	2092.9	711.3	263.5	213.2	169.7	134.7	115.1	104.9	99.8	100.6
37.5°	2651.5	2009.3	554.3	239.6	191.9	145.8	116.0	98.9	89.5	85.3	84.4
40°	2666.0	1941.1	440.9	218.3	168.0	125.4	99.8	85.3	75.9	69.9	69.9
42.5°	2734.2	1911.2	355.6	197.9	145.8	108.3	87.0	73.3	63.1	57.1	58.0
45°	2942.3	1942.8	297.6	179.1	125.4	93.8	75.1	60.6	51.2	46.9	46.1
47.5°	3287.7	2061.3	257.6	159.5	107.5	80.2	63.1	50.3	40.9	37.5	36.7
50°	3891.5	2306.1	227.7	139.9	91.3	68.2	52.0	40.1	32.4	29.0	29.0
52.5°	4722.2	2840.0	206.4	117.7	76.8	58.0	42.6	32.4	25.6	23.0	22.2
55°	5590.4	3402.8	195.3	98.9	64.0	47.8	34.1	25.6	19.6	17.1	16.2
57.5°	6425.3	3844.6	182.5	80.2	51.2	36.7	26.4	19.6	13.6	11.9	11.1
60°	7226.1	4202.0	155.2	64.0	40.1	26.4	19.6	13.6	9.4	7.7	7.7
62.5°	7942.5	4410.0	122.0	51.2	30.7	18.8	12.8	10.2	6.8	5.1	5.1
65°	8026.1	4139.7	92.1	39.2	22.2	11.9	7.7	7.7	5.1	3.4	3.4
66°	7858.1	3910.3	81.0	35.8	19.6	10.2	6.8	6.0	4.3	2.6	2.6
67.5°	7482.8	3518.8	69.9	30.7	16.2	7.7	5.1	5.1	3.4	1.7	1.7
70°	6465.4	2874.1	55.4	23.0	11.9	6.0	3.4	3.4	2.6	1.7	1.7
72.5°	4927.7	2145.7	45.2	17.1	8.5	4.3	2.6	2.6	2.6	1.7	1.7
75°	2972.2	1155.6	35.0	12.8	7.7	3.4	1.7	2.6	3.4	2.6	1.7
77.5°	1095.0	393.2	27.3	10.2	6.0	3.4	1.7	1.7	3.4	2.6	2.6
80°	268.6	102.3	19.6	8.5	6.0	3.4	1.7	1.7	3.4	3.4	3.4
82.5°	124.5	43.5	13.6	7.7	6.0	3.4	1.7	1.7	2.6	3.4	3.4
85°	71.6	20.5	11.1	8.5	6.0	3.4	1.7	1.7	2.6	3.4	3.4
87.5°	29.0	10.2	10.2	8.5	6.8	4.3	1.7	1.7	1.7	2.6	2.6
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)