

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: P949864

Luminaire Tested: **GALN-SB4C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21276 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 200.7
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

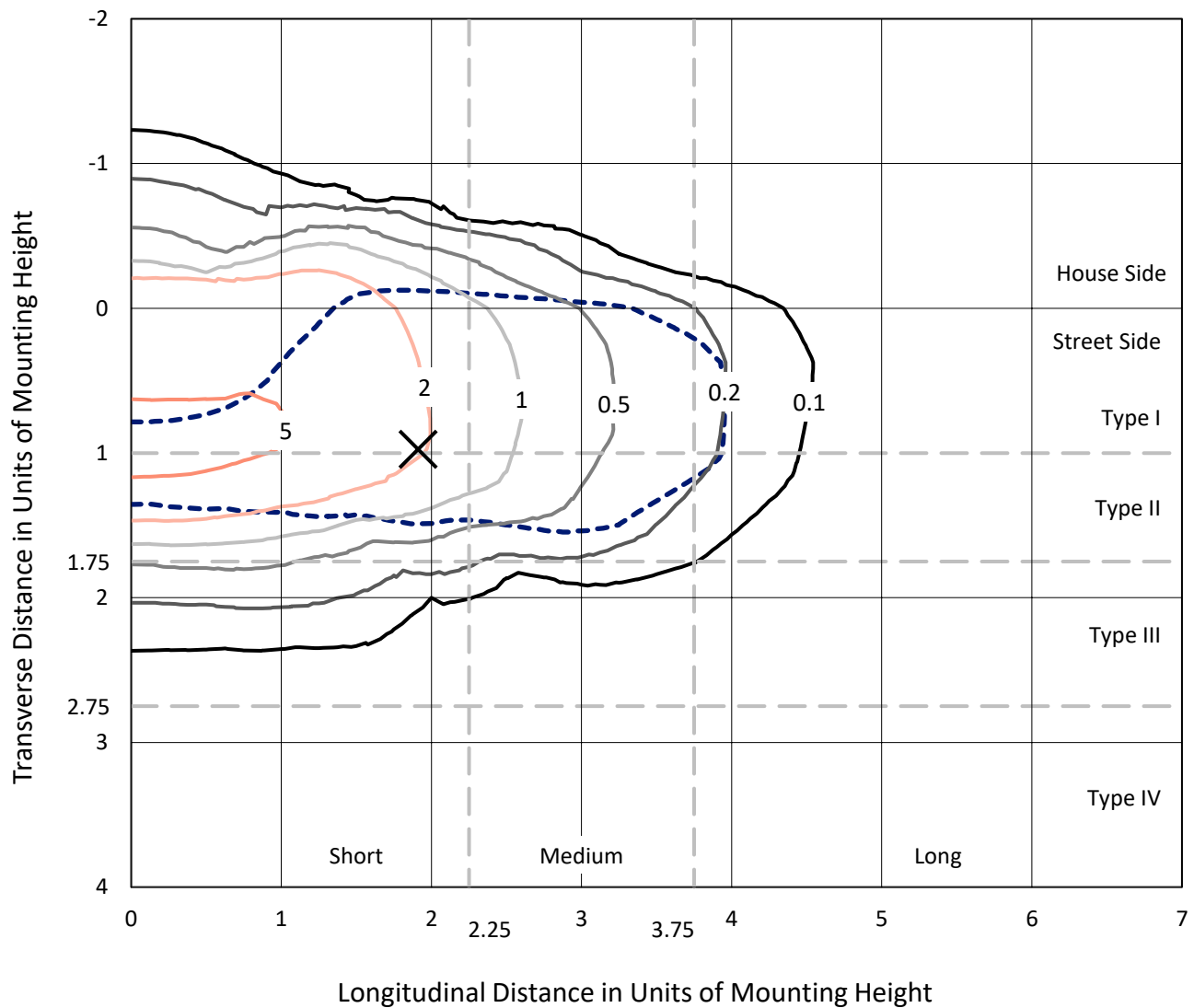


REPORT NUMBER: P949864

CATALOG NUMBER: GALN-SB4C-727-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

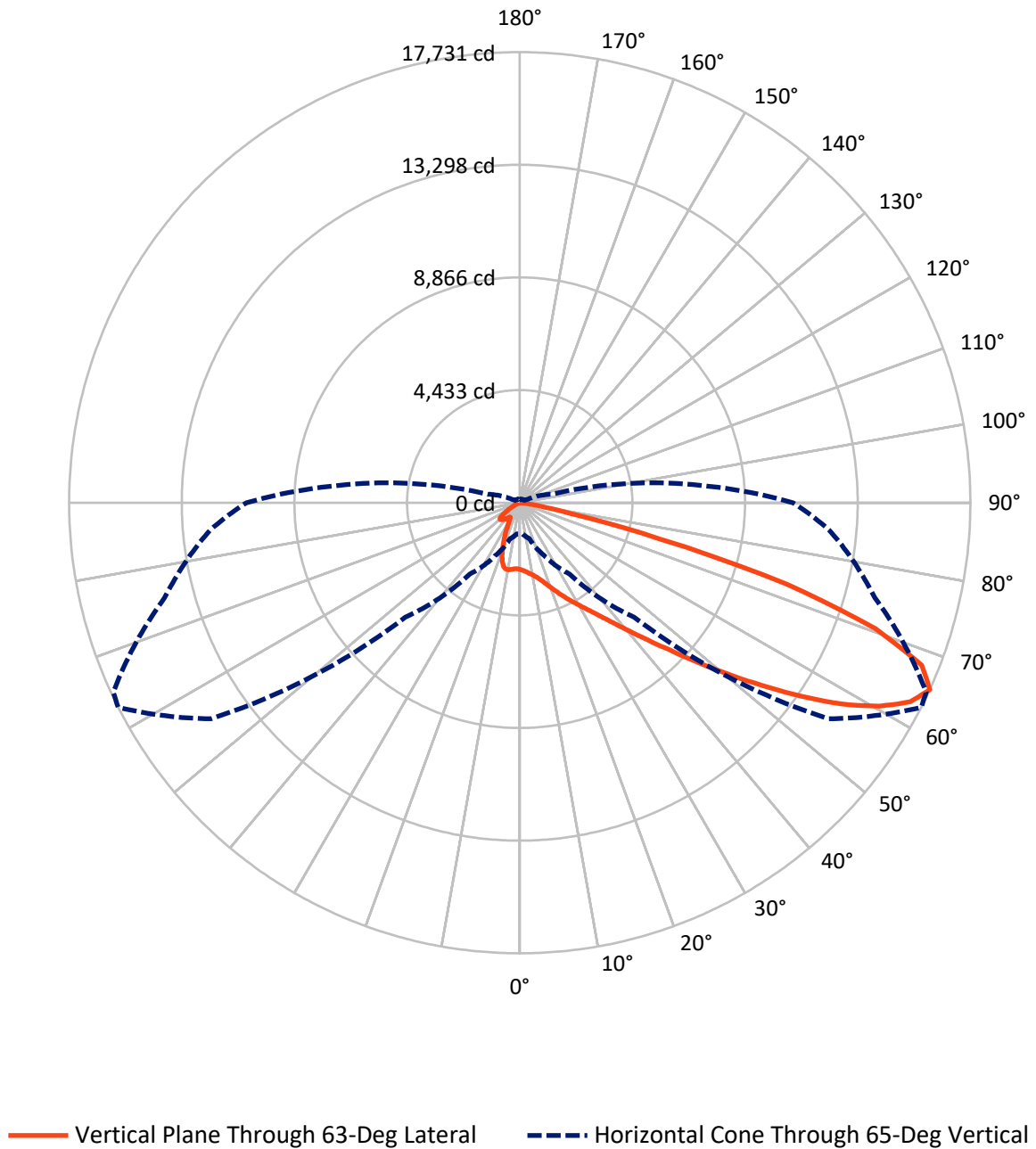


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

REPORT NUMBER: P949864

CATALOG NUMBER: GALN-SB4C-727-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949864

CATALOG NUMBER: GALN-SB4C-727-U-T2U-HSS

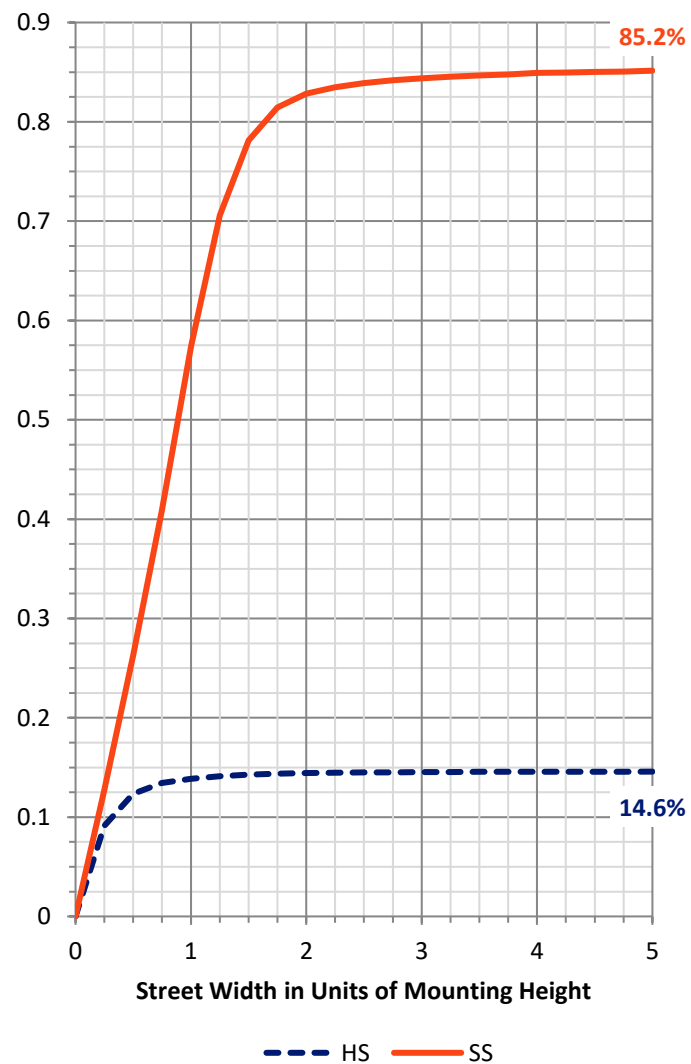
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3127.4	0.0	3127.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18148.6	0.0	18148.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	21276.0	0.0	21276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.2
10°-20°	686.5	3.2
20°-30°	1195.3	5.6
30°-40°	2154.4	10.1
40°-50°	4272.9	20.1
50°-60°	5820.4	27.4
60°-70°	4645.8	21.8
70°-80°	2102.3	9.9
80°-90°	151.1	0.7
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°	21276.0	100.0
0°-180°	21276.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949864

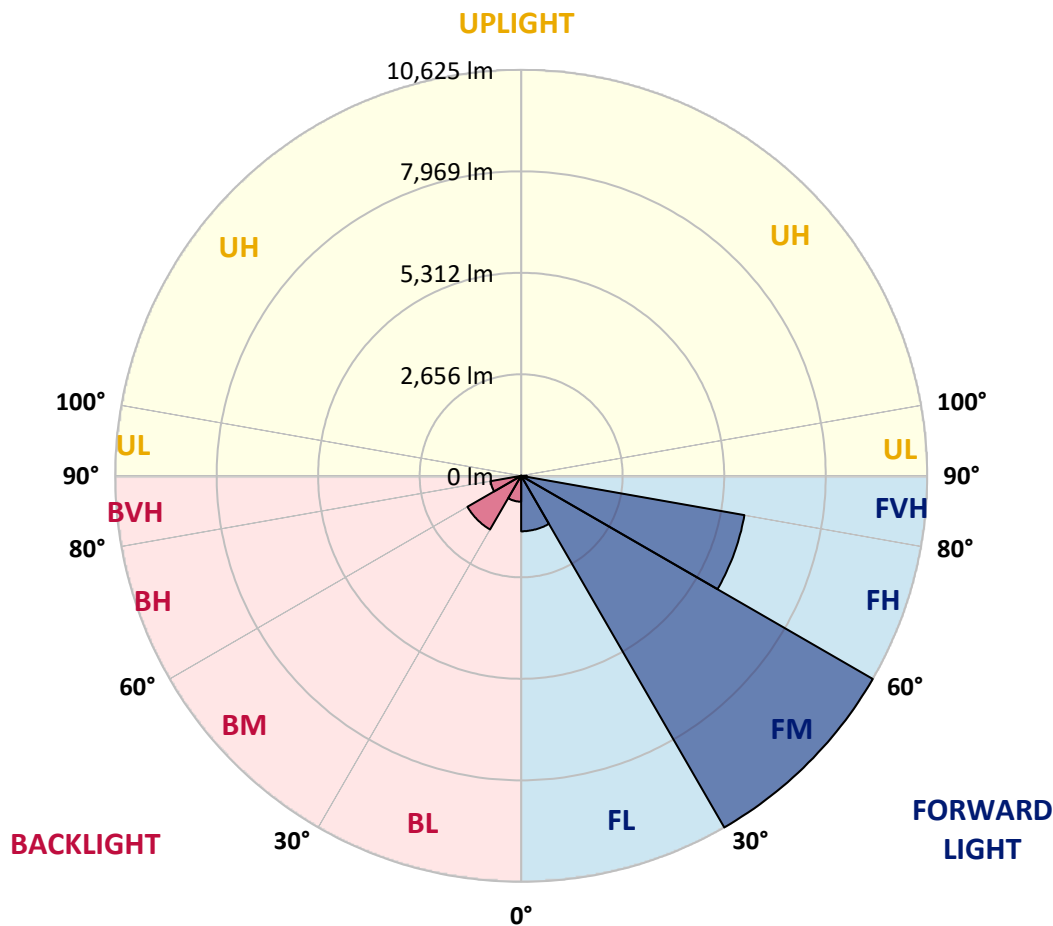
CATALOG NUMBER: GALN-SB4C-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1452.3	6.8			
FM	(30°-60°)	10624.7	49.9			
FH	(60°-80°)	5931.6	27.9			G3/7500
FVH	(80°-90°)	139.9	0.7			G2/225
BL	(0°-30°)	676.8	3.2	B2/1000		
BM	(30°-60°)	1622.9	7.6	B2/2500		
BH	(60°-80°)	816.4	3.8	B2/1000		G2/1000
BVH	(80°-90°)	11.2	0.1			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 II Short



REPORT NUMBER: P949864

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9
2.5°	2687.3	2680.0	2690.3	2685.9	2682.9	2677.1	2674.2	2671.2	2665.4	2661.0	2643.4
5°	2694.7	2690.3	2700.5	2709.3	2718.1	2726.9	2731.2	2737.1	2731.2	2719.5	2702.0
7.5°	2633.2	2630.3	2652.2	2678.6	2718.1	2751.7	2788.3	2808.8	2810.3	2805.9	2786.9
10°	2628.8	2621.5	2643.4	2675.6	2726.9	2786.9	2851.3	2895.2	2901.0	2920.1	2899.6
12.5°	2697.6	2690.3	2721.0	2756.1	2808.8	2871.8	2950.8	3012.3	3021.1	3047.4	3032.8
15°	2813.2	2803.0	2838.1	2883.5	2950.8	3022.5	3106.0	3161.6	3168.9	3201.1	3174.7
17.5°	2947.9	2937.6	2978.6	3026.9	3100.1	3198.2	3294.8	3356.2	3365.0	3385.5	3337.2
20°	3120.6	3107.4	3139.6	3183.5	3261.1	3378.2	3493.8	3581.7	3580.2	3580.2	3501.1
22.5°	3321.1	3300.6	3328.4	3363.6	3436.7	3578.7	3732.4	3836.3	3836.3	3795.3	3665.1
25°	3536.3	3515.8	3546.5	3578.7	3643.1	3804.1	3984.2	4113.0	4118.8	4048.6	3840.7
27.5°	3805.6	3779.2	3802.7	3840.7	3878.8	4042.7	4256.4	4405.7	4408.6	4300.3	4007.6
30°	4323.7	4249.1	4175.9	4134.9	4152.5	4315.0	4543.3	4708.7	4723.3	4574.0	4189.1
32.5°	5272.2	5257.6	5000.0	4663.3	4487.7	4607.7	4863.8	5062.9	5071.7	4879.9	4424.7
35°	6746.1	6728.6	6314.4	5673.3	5101.0	5000.0	5253.2	5488.8	5483.0	5266.4	4730.6
37.5°	8505.5	8489.4	7943.4	7085.7	6159.2	5592.8	5755.2	6002.6	6039.2	5755.2	5125.8
40°	10008.7	9948.7	9603.3	8776.3	7564.4	6576.4	6469.5	6633.4	6671.5	6334.9	5627.9
42.5°	11147.5	11096.2	10920.6	10403.9	9265.2	8031.3	7311.1	7374.1	7416.5	7012.5	6204.6
45°	11737.3	11725.6	11795.9	11747.6	10998.2	9817.0	8514.3	8252.3	8268.4	7763.4	6858.9
47.5°	11820.8	11814.9	12135.5	12589.2	12488.2	11831.0	10058.5	9347.1	9290.0	8610.9	7570.2
50°	11329.0	11317.3	11932.0	12782.4	13483.5	13523.0	11812.0	10581.0	10455.1	9487.6	8312.3
52.5°	9758.4	9755.5	10765.4	12180.8	13833.3	15004.3	13545.0	11936.4	11725.6	10415.6	9096.8
55°	7508.7	7562.9	8720.7	10393.7	13195.2	15717.1	15100.9	13441.1	13117.6	11349.5	9819.9
57.5°	5319.1	5398.1	6542.7	8032.7	11216.3	15295.6	16153.3	14948.7	14600.3	12280.4	10553.2
60°	2857.1	2927.4	4073.5	5851.8	8344.5	13723.6	16708.0	16257.2	15927.9	13164.4	11214.8
62.5°	1702.3	1725.7	2199.9	3777.8	5644.0	10484.4	16472.4	17254.0	16983.2	13906.5	11790.0
65°	1222.2	1226.6	1465.2	2306.8	3426.5	6370.0	14819.9	17731.1	17647.7	14465.7	12216.0
67.5°	1029.0	1026.0	1125.6	1532.5	2334.6	3190.8	11358.2	17056.4	17410.6	14819.9	12457.5
70°	882.6	887.0	1004.1	1122.7	1755.0	1806.2	5646.9	14850.6	15605.9	14913.5	12442.8
72.5°	657.2	671.8	780.1	1023.1	1324.6	1242.7	1949.6	11011.3	12377.0	14051.4	11797.3
75°	464.0	471.3	548.9	860.6	988.0	904.6	995.3	5692.3	7442.9	10772.8	9656.0
77.5°	357.1	370.3	415.7	601.6	973.4	635.2	608.9	1970.1	3026.9	6507.6	6620.3
80°	193.2	216.6	300.1	434.7	683.5	449.4	301.5	784.5	1026.0	3043.0	2552.7
82.5°	99.5	111.2	209.3	313.2	389.3	392.3	149.3	326.4	423.0	939.7	349.8
85°	39.5	48.3	140.5	172.7	200.5	193.2	67.3	131.7	152.2	260.5	106.8
87.5°	8.8	14.6	51.2	39.5	38.1	41.0	16.1	30.7	29.3	30.7	19.0
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: P949864

CATALOG NUMBER: GALN-SB4C-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9	2625.9
2.5°	2642.0	2636.1	2620.0	2602.4	2581.9	2570.2	2562.9	2561.5	2551.2	2543.9	2551.2
5°	2685.9	2680.0	2649.3	2612.7	2573.2	2542.4	2513.2	2486.8	2448.8	2441.4	2438.5
7.5°	2773.7	2757.6	2707.8	2658.1	2583.4	2494.1	2385.8	2261.4	2150.2	2116.5	2100.4
10°	2882.0	2860.1	2797.1	2709.3	2543.9	2300.9	2038.9	1795.9	1602.7	1548.6	1528.1
12.5°	3005.0	2985.9	2902.5	2740.0	2378.5	1937.9	1536.9	1235.4	1048.0	1001.2	988.0
15°	3151.3	3123.5	3007.9	2693.2	2082.8	1472.5	1055.3	876.8	809.4	800.6	791.9
17.5°	3306.5	3261.1	3101.6	2524.9	1684.7	1046.5	815.3	764.0	734.8	726.0	721.6
20°	3448.5	3389.9	3157.2	2270.2	1258.8	815.3	730.4	696.7	670.4	660.1	654.3
22.5°	3590.4	3507.0	3157.2	1923.3	944.1	723.1	670.4	639.6	608.9	595.7	588.4
25°	3738.3	3627.0	3101.6	1536.9	759.7	663.1	613.3	579.6	553.3	537.2	531.3
27.5°	3881.7	3728.0	2974.2	1171.0	676.2	610.4	560.6	528.4	503.5	491.8	491.8
30°	4017.8	3827.6	2795.6	888.5	622.1	559.1	512.3	484.5	459.6	447.9	449.4
32.5°	4202.3	3953.4	2605.4	728.9	575.2	510.8	468.4	442.0	420.1	411.3	411.3
35°	4458.4	4139.3	2441.4	715.7	535.7	471.3	428.9	404.0	382.0	374.7	374.7
37.5°	4821.4	4439.4	2355.1	803.6	503.5	436.2	396.7	370.3	349.8	344.0	342.5
40°	5269.3	4846.3	2401.9	891.4	481.6	405.4	367.4	341.0	323.5	316.2	314.7
42.5°	5800.6	5348.3	2661.0	958.7	466.9	379.1	339.6	310.3	298.6	295.7	295.7
45°	6411.0	5900.1	3057.6	1030.4	443.5	354.2	311.8	289.8	281.0	279.6	278.1
47.5°	7104.8	6506.1	3517.2	1119.7	420.1	330.8	289.8	275.2	267.9	264.9	264.9
50°	7792.7	7116.5	3990.0	1169.5	401.1	308.8	272.2	260.5	254.7	253.2	253.2
52.5°	8512.8	7744.4	4372.0	1122.7	385.0	291.3	257.6	248.8	243.0	241.5	241.5
55°	9199.3	8252.3	4437.9	952.9	352.7	273.7	241.5	237.1	229.8	229.8	228.3
57.5°	9790.6	8507.0	3972.5	699.6	320.5	247.4	225.4	221.0	215.2	213.7	212.2
60°	10333.7	8433.8	3066.4	471.3	285.4	221.0	204.9	202.0	196.1	188.8	187.4
62.5°	10639.6	8111.8	2097.5	307.4	250.3	193.2	181.5	180.0	166.9	152.2	149.3
65°	10755.2	7450.2	1308.5	223.9	209.3	165.4	156.6	153.7	134.7	118.6	117.1
67.5°	10654.2	6361.2	660.1	177.1	165.4	137.6	128.8	128.8	115.6	101.0	99.5
70°	10250.2	4768.7	278.1	142.0	127.3	105.4	105.4	111.2	98.1	82.0	80.5
72.5°	9373.5	3208.4	147.8	108.3	95.1	74.6	86.4	90.7	77.6	61.5	61.5
75°	7451.6	1957.0	102.5	80.5	60.0	52.7	65.9	68.8	52.7	41.0	39.5
77.5°	5096.6	1124.1	68.8	51.2	38.1	30.7	45.4	42.4	27.8	19.0	20.5
80°	2238.0	468.4	39.5	23.4	14.6	11.7	16.1	11.7	8.8	5.9	5.9
82.5°	262.0	109.8	14.6	8.8	5.9	2.9	1.5	0.0	0.0	0.0	0.0
85°	54.2	13.2	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	2.9	1.5	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)