

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: P949509

Luminaire Tested: **GALN-SB4B-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17427 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 147
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

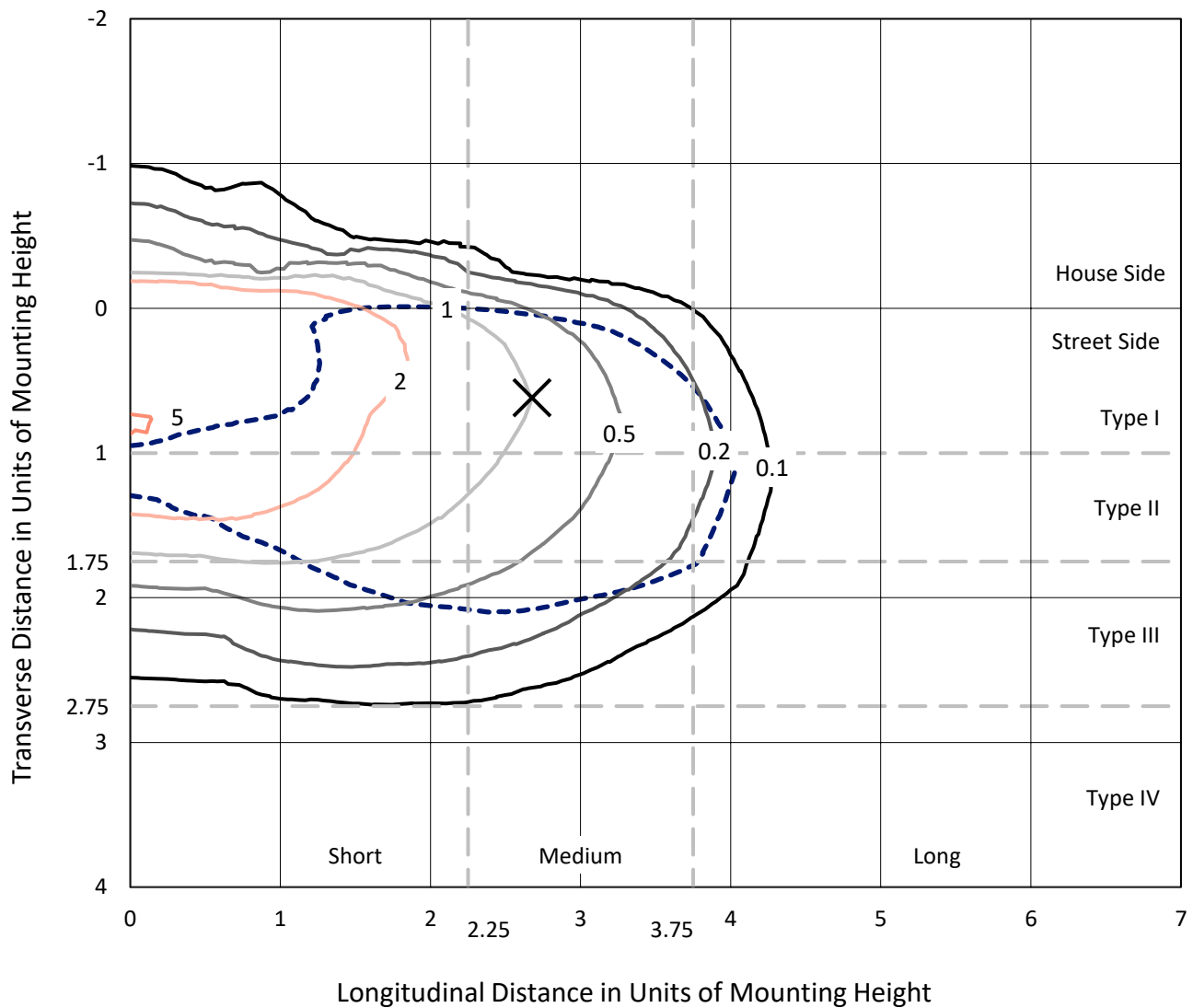


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

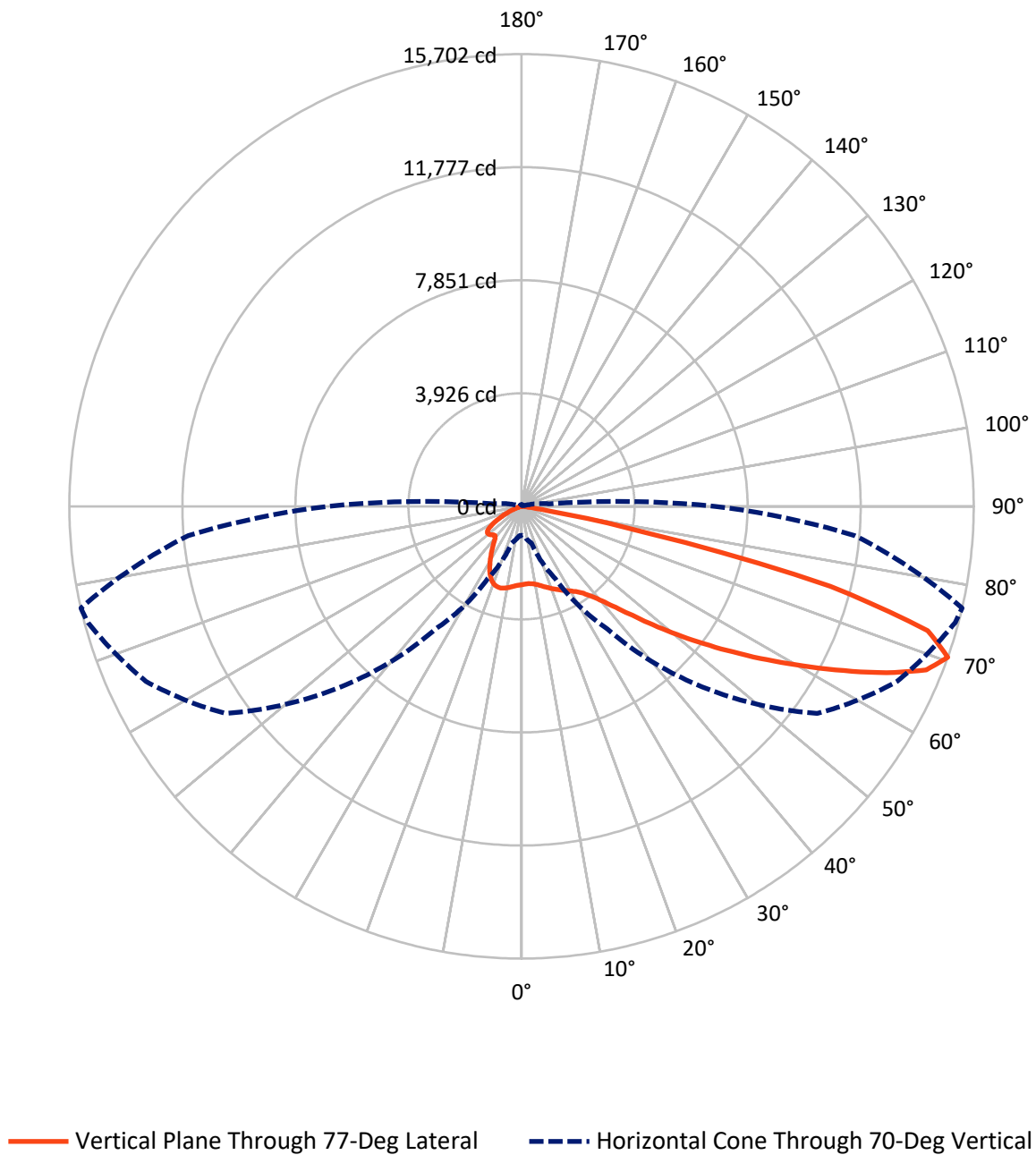


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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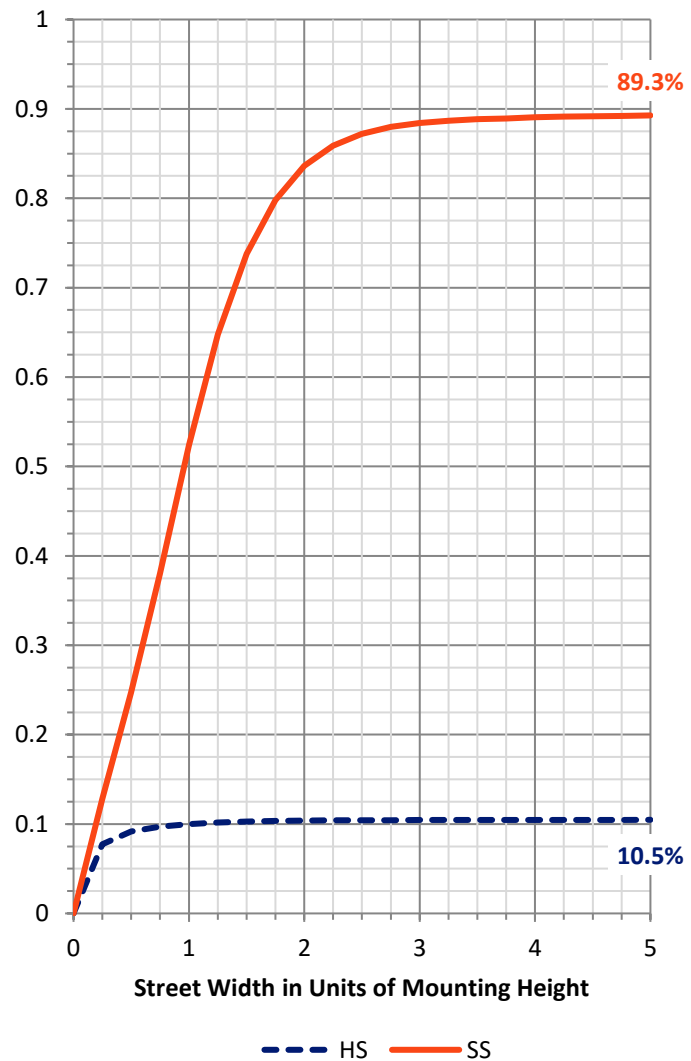
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1837.0	0.0	1837.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15589.9	0.0	15589.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	17427.0	0.0	17427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	1.3
10°-20°	556.1	3.2
20°-30°	860.2	4.9
30°-40°	1560.9	9.0
40°-50°	2946.3	16.9
50°-60°	4257.2	24.4
60°-70°	4531.7	26.0
70°-80°	2401.5	13.8
80°-90°	78.8	0.5
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°	17427.0	100.0
0°-180°	17427.0	100.0

Coefficient of Utilization



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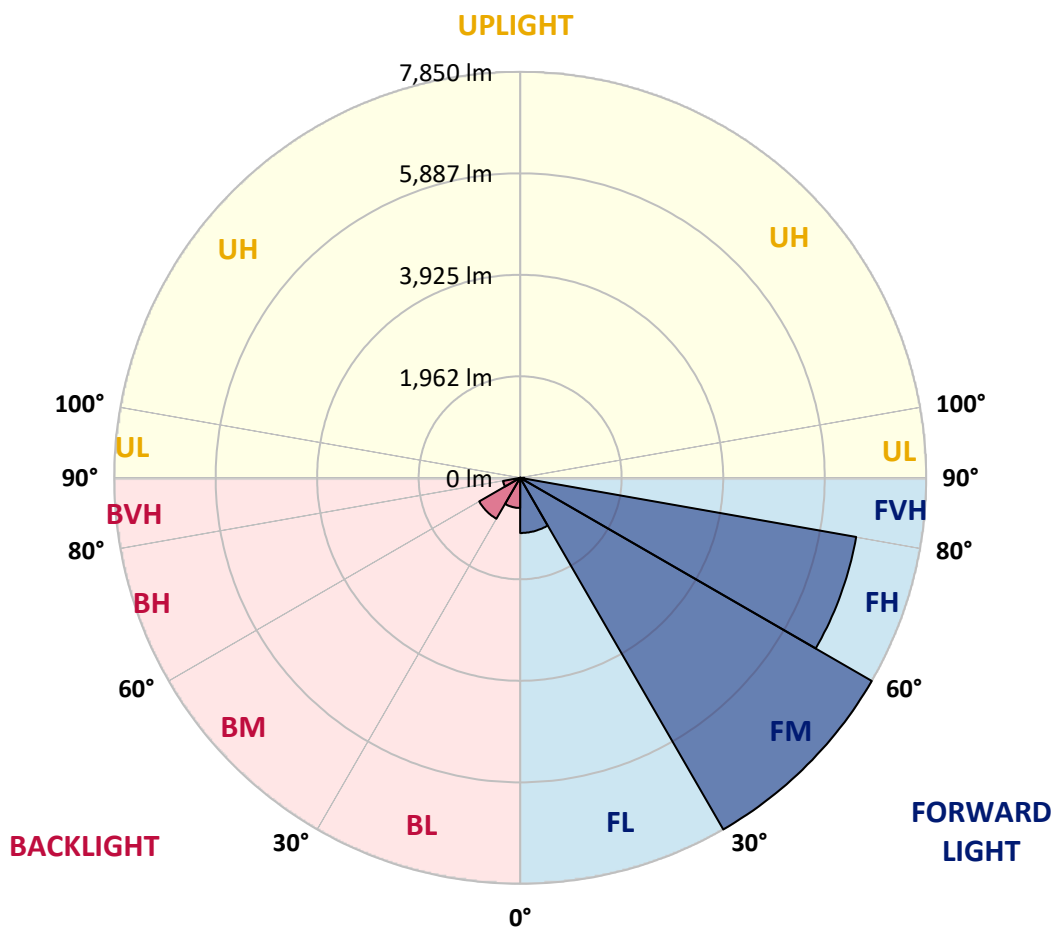
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1066.9	6.1			
FM	(30°-60°)	7849.9	45.0			
FH	(60°-80°)	6596.4	37.9			G3/7500
FVH	(80°-90°)	76.7	0.4			G1/100
BL	(0°-30°)	583.7	3.3	B2/1000		
BM	(30°-60°)	914.5	5.2	B1/1000		
BH	(60°-80°)	336.8	1.9	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3
2.5°	2552.1	2575.2	2571.9	2587.3	2592.8	2614.8	2636.9	2666.6	2699.6	2698.5	2720.5
5°	2407.9	2431.1	2436.6	2457.5	2483.9	2518.0	2563.1	2622.6	2684.2	2694.1	2738.1
7.5°	2237.4	2261.6	2275.9	2317.7	2366.1	2436.6	2510.3	2597.2	2699.6	2713.9	2798.6
10°	2066.8	2088.8	2107.5	2166.9	2244.0	2348.5	2468.5	2593.9	2731.5	2752.4	2872.4
12.5°	1961.1	1982.0	2003.0	2054.7	2150.4	2278.1	2441.0	2609.3	2784.3	2814.0	2972.5
15°	1923.7	1942.4	1958.9	2005.2	2094.3	2239.6	2435.5	2641.3	2851.5	2891.1	3093.6
17.5°	1929.2	1939.1	1950.1	1985.3	2072.3	2222.0	2445.4	2696.3	2930.7	2965.9	3214.6
20°	1961.1	1966.6	1967.7	1992.0	2069.0	2219.8	2465.2	2749.1	3005.5	3052.9	3334.6
22.5°	2001.9	2004.1	2001.9	2018.4	2089.9	2236.3	2491.6	2812.9	3089.2	3133.2	3455.6
25°	2192.2	2150.4	2097.6	2065.7	2125.1	2268.2	2531.2	2898.8	3180.5	3223.4	3573.4
27.5°	2783.2	2663.3	2474.0	2261.6	2197.7	2314.4	2586.2	2985.7	3273.0	3311.5	3700.0
30°	3742.9	3585.5	3264.2	2785.4	2431.1	2411.3	2657.8	3072.7	3370.9	3412.7	3835.3
32.5°	4704.7	4666.2	4295.3	3632.8	2956.0	2627.0	2776.6	3190.4	3500.8	3533.8	4018.0
35°	5677.6	5599.5	5295.7	4640.9	3764.9	3066.1	2974.7	3344.5	3671.4	3708.8	4284.3
37.5°	6422.7	6375.3	6187.2	5647.9	4724.6	3744.0	3313.7	3583.3	3919.0	3960.8	4625.5
40°	7080.8	7058.8	6994.9	6639.5	5797.6	4631.0	3840.8	3953.1	4262.3	4311.9	5043.7
42.5°	7598.0	7649.8	7686.1	7587.0	6903.6	5643.5	4549.6	4472.5	4741.1	4791.7	5576.4
45°	8127.4	8145.0	8291.4	8434.4	8001.9	6702.2	5348.6	5081.1	5336.4	5399.2	6214.7
47.5°	8467.4	8537.9	8795.4	9047.4	8925.3	7752.1	6207.0	5799.8	6026.5	6144.2	6930.0
50°	8492.8	8625.9	8980.3	9419.4	9597.7	8751.4	7140.2	6618.6	6859.6	6989.4	7693.8
52.5°	8071.3	8278.2	8827.3	9470.0	9960.9	9597.7	8105.4	7437.3	7746.6	7916.1	8486.1
55°	6188.3	6459.0	8251.7	9194.9	9975.2	10239.3	9045.2	8290.3	8734.9	8926.4	9342.4
57.5°	5391.5	5527.9	6487.6	8717.3	9709.9	10497.9	9894.8	9102.4	9810.1	10047.8	10151.2
60°	4485.7	4665.1	5441.0	7935.9	9350.1	10523.2	10645.4	10150.1	10975.5	11243.0	10893.0
62.5°	3048.5	3243.2	4014.7	6593.2	8858.1	10511.1	11260.6	11228.7	12270.9	12558.1	11521.4
65°	1888.5	2010.7	2519.1	5383.8	8170.3	10524.3	11904.4	12538.3	13637.7	13929.3	12007.8
67.5°	1492.3	1548.4	1813.7	4133.6	6985.0	10227.2	12547.1	13769.8	14924.2	15155.3	12156.4
70°	1002.6	1036.7	1319.5	2771.1	5196.7	8855.9	12535.0	14388.3	15586.7	15702.3	11614.9
72.5°	528.3	554.7	771.5	1283.2	3138.7	6295.0	10566.1	13648.7	14927.5	14753.6	9927.8
75°	264.1	308.1	519.4	651.5	1340.4	3510.7	6561.3	10760.9	11749.2	11075.7	6369.8
77.5°	200.3	242.1	429.2	429.2	466.6	1182.0	2778.8	5869.1	5413.5	4507.8	1869.8
80°	127.7	165.1	375.3	324.7	194.8	300.4	724.1	1644.2	1150.0	874.9	340.1
82.5°	74.8	107.9	312.5	214.6	109.0	111.2	204.7	350.0	298.2	232.2	104.5
85°	29.7	70.4	214.6	84.7	42.9	27.5	61.6	74.8	61.6	46.2	26.4
87.5°	0.0	16.5	37.4	0.0	3.3	2.2	4.4	5.5	5.5	4.4	8.8
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°	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3
2.5°	2730.4	2732.6	2739.2	2740.3	2724.9	2705.1	2697.4	2694.1	2680.9	2679.8	2682.0
5°	2763.4	2773.3	2763.4	2734.8	2666.6	2570.8	2498.2	2438.8	2384.8	2368.3	2358.4
7.5°	2829.5	2839.4	2809.6	2697.4	2525.7	2335.3	2163.6	2042.6	1933.6	1892.9	1876.4
10°	2924.1	2937.3	2843.8	2617.0	2313.3	2007.4	1716.8	1512.1	1352.5	1287.6	1260.1
12.5°	3043.0	3048.5	2862.5	2494.9	2037.1	1600.2	1188.6	969.6	827.6	774.8	758.3
15°	3173.9	3166.2	2864.7	2328.7	1660.7	1131.3	775.9	637.2	580.0	562.4	562.4
17.5°	3311.5	3279.6	2820.6	2088.8	1248.0	773.7	575.6	542.6	532.7	528.3	527.2
20°	3446.8	3375.3	2740.3	1775.1	895.8	577.8	522.7	512.8	507.3	505.1	502.9
22.5°	3570.1	3447.9	2602.7	1410.9	650.4	510.6	494.1	485.3	475.4	471.0	469.9
25°	3690.1	3489.8	2409.0	1070.8	520.5	477.6	464.4	447.9	434.7	429.2	427.0
27.5°	3806.7	3516.2	2166.9	792.4	464.4	446.8	422.6	399.5	389.6	387.4	385.2
30°	3931.1	3525.0	1891.8	591.0	430.3	408.3	373.1	346.7	341.2	342.3	342.3
32.5°	4082.9	3538.2	1614.5	484.2	401.7	362.1	320.3	292.7	288.3	292.7	291.6
35°	4264.5	3564.6	1347.0	445.7	376.4	314.8	269.6	246.5	242.1	245.4	244.3
37.5°	4511.1	3607.5	1097.2	438.0	355.5	275.1	226.7	208.0	208.0	209.1	208.0
40°	4839.0	3722.0	873.8	432.5	344.5	245.4	191.5	183.8	187.1	189.3	189.3
42.5°	5238.5	3965.2	723.0	425.9	332.4	232.2	173.9	170.6	176.1	178.3	178.3
45°	5686.4	4273.3	670.2	414.9	321.4	241.0	166.2	161.8	168.4	169.5	170.6
47.5°	6149.7	4574.9	663.6	402.8	310.3	254.2	164.0	154.1	161.8	162.9	164.0
50°	6618.6	4771.9	670.2	384.1	292.7	254.2	165.1	146.4	153.0	156.3	157.4
52.5°	7090.7	4862.1	665.8	343.4	261.9	238.8	165.1	139.8	146.4	148.6	148.6
55°	7548.5	4844.5	598.7	282.8	222.3	211.3	160.7	134.3	138.7	139.8	139.8
57.5°	7910.6	4599.1	474.3	220.1	180.5	176.1	146.4	127.7	131.0	129.9	129.9
60°	8099.9	4059.8	339.0	169.5	142.0	138.7	128.8	118.9	121.1	115.6	114.5
62.5°	8102.1	3346.7	226.7	134.3	113.4	110.1	110.1	106.8	104.5	93.5	90.2
65°	7929.3	2555.4	150.8	106.8	91.3	85.8	92.4	91.3	83.6	68.2	66.0
67.5°	7537.5	1675.0	114.5	83.6	70.4	67.1	73.7	77.0	71.5	57.2	56.1
70°	6731.9	975.1	94.6	64.9	52.8	49.5	59.4	66.0	59.4	46.2	44.0
72.5°	5591.8	526.1	77.0	48.4	36.3	33.0	47.3	53.9	47.3	34.1	33.0
75°	3628.4	281.7	59.4	31.9	18.7	20.9	35.2	39.6	33.0	22.0	19.8
77.5°	1218.3	124.4	37.4	15.4	8.8	8.8	20.9	24.2	15.4	7.7	6.6
80°	271.8	51.7	15.4	6.6	3.3	3.3	4.4	4.4	2.2	0.0	0.0
82.5°	89.1	20.9	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.1	7.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	1.1	0.0	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)