

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: P949530

Luminaire Tested: **GALN-SB4B-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949530
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-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 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: 18789 lumens
Efficiency: N/A
Efficacy: 127.8 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

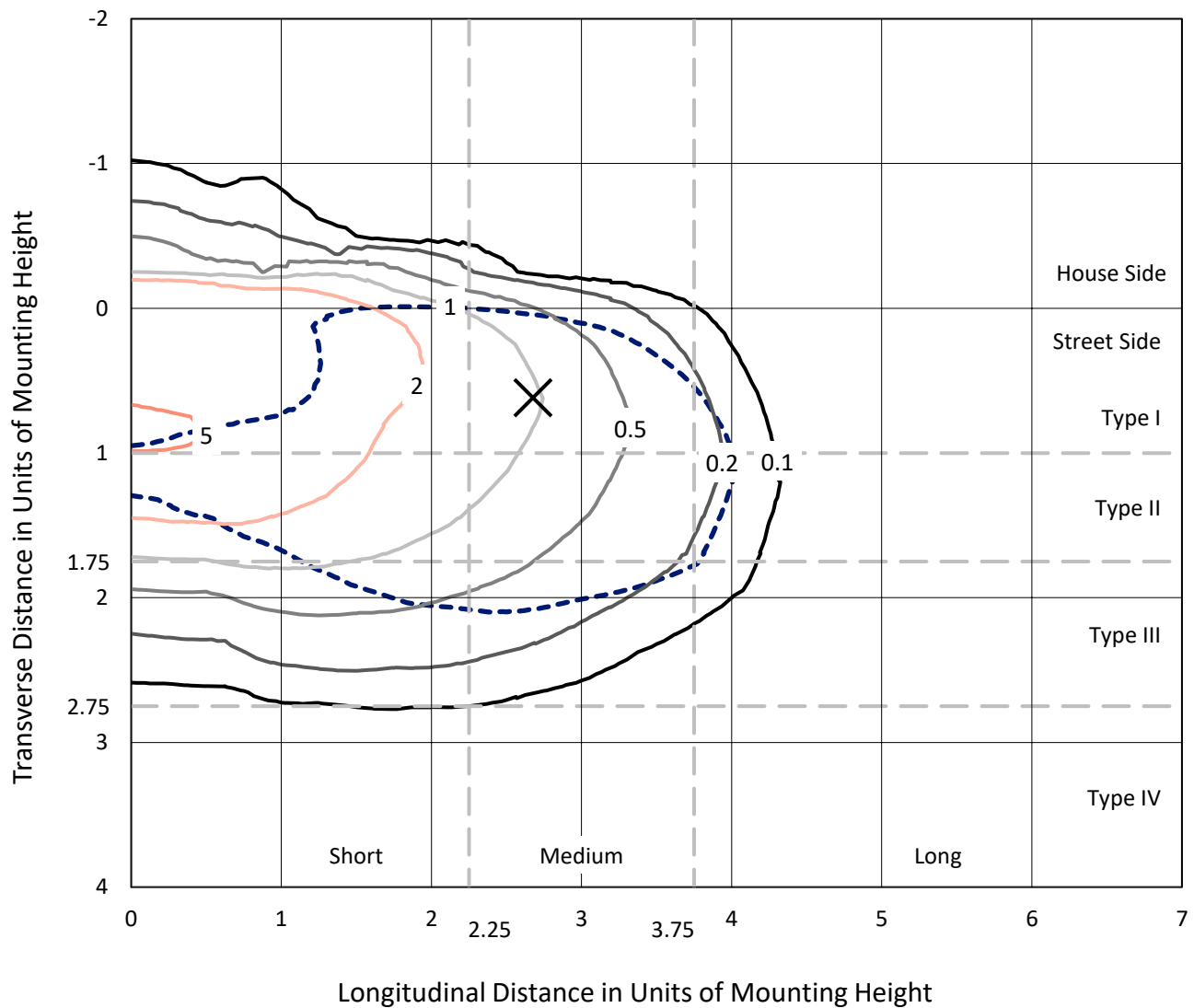


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Iso-Footcandle Lines of Horizontal Illumination

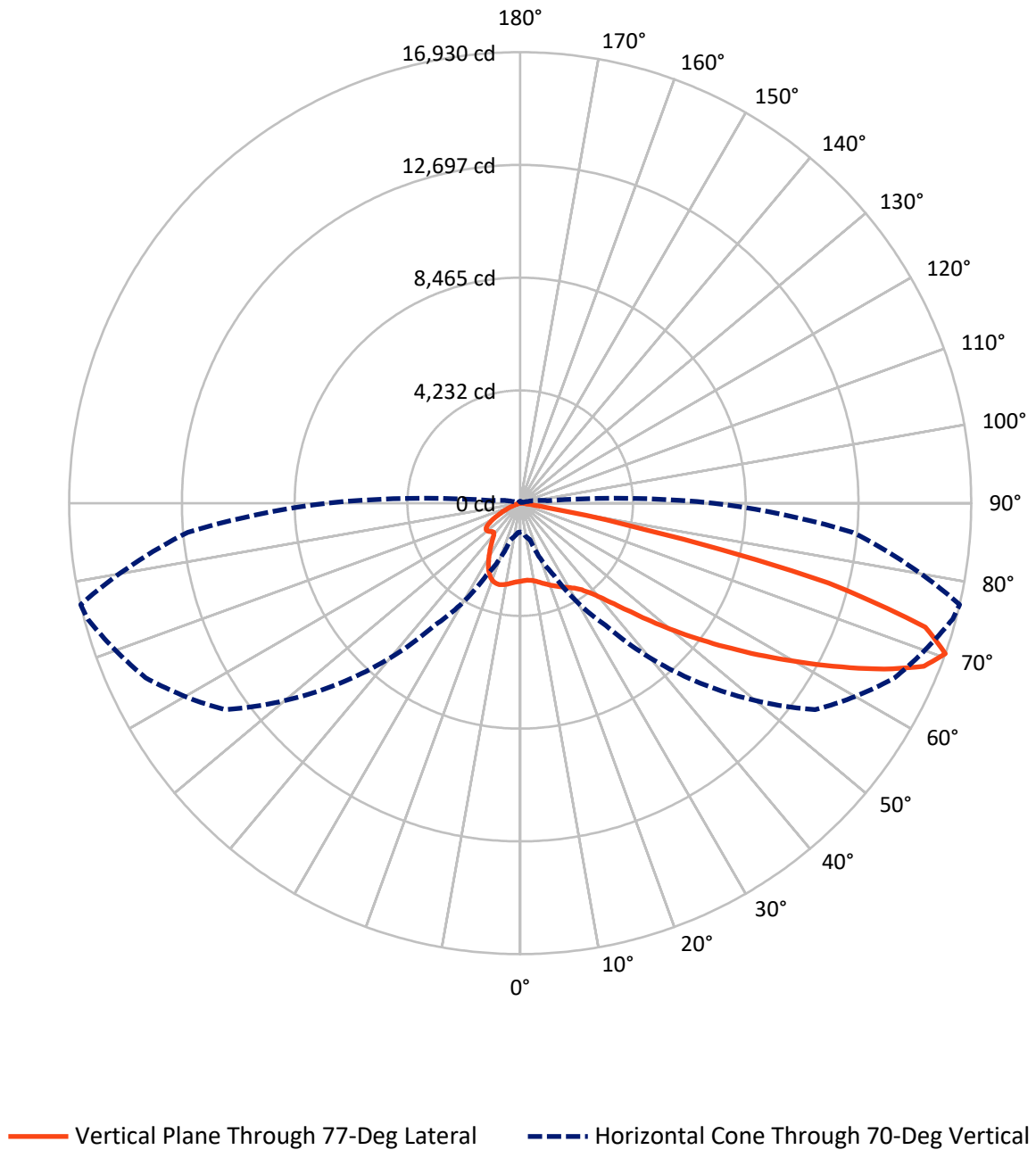
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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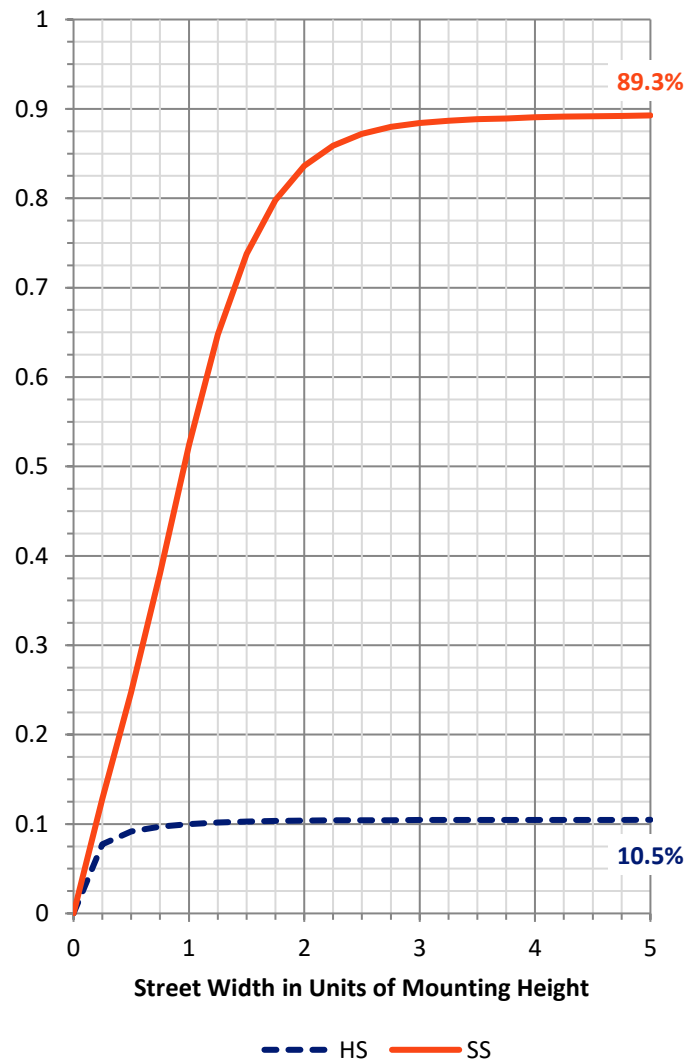
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1980.6	0.0	1980.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16808.4	0.0	16808.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	18789.0	0.0	18789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	1.3
10°-20°	599.6	3.2
20°-30°	927.4	4.9
30°-40°	1682.9	9.0
40°-50°	3176.6	16.9
50°-60°	4589.9	24.4
60°-70°	4885.8	26.0
70°-80°	2589.2	13.8
80°-90°	85.0	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°	18789.0	100.0
0°-180°	18789.0	100.0

Coefficient of Utilization



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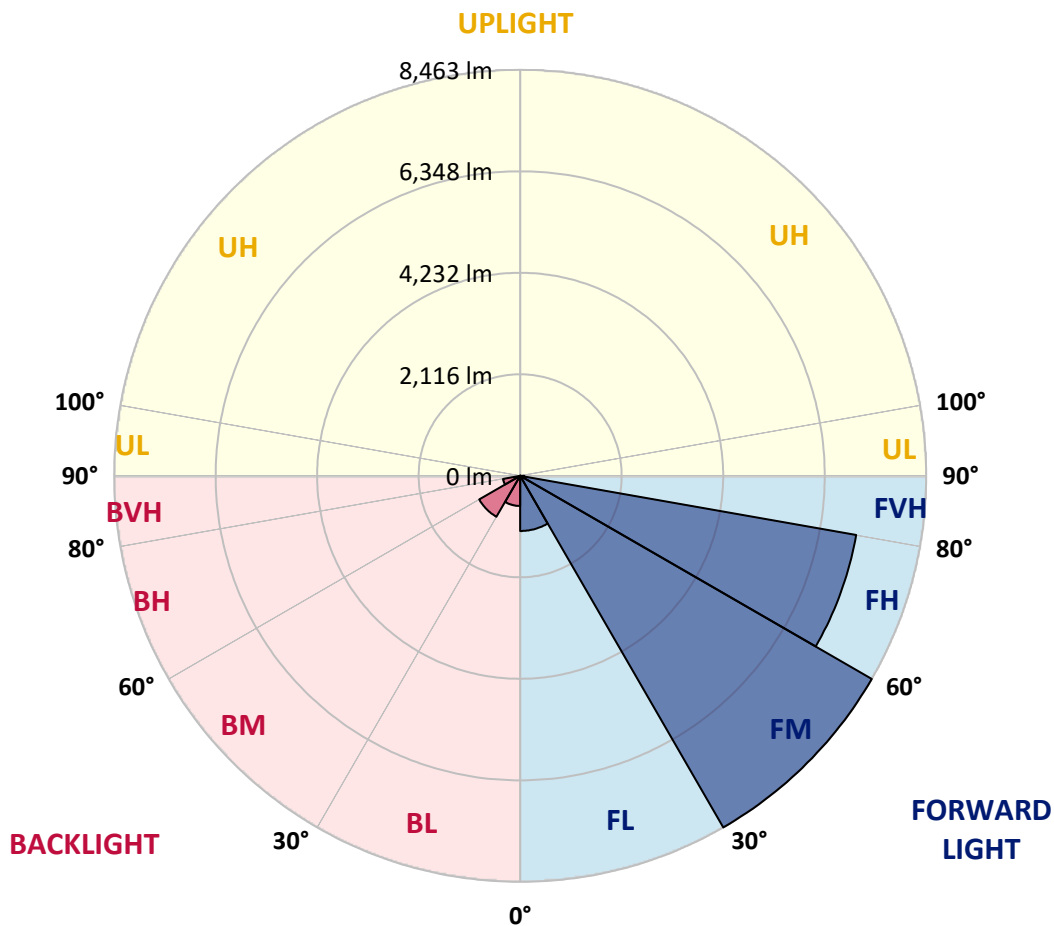
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1150.3	6.1			
FM	(30°-60°)	8463.4	45.0			
FH	(60°-80°)	7111.9	37.9			G3/7500
FVH	(80°-90°)	82.7	0.4			G1/100
BL	(0°-30°)	629.3	3.3	B2/1000		
BM	(30°-60°)	986.0	5.2	B1/1000		
BH	(60°-80°)	363.1	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7
2.5°	2751.6	2776.5	2772.9	2789.5	2795.5	2819.2	2842.9	2875.0	2910.6	2909.4	2933.1
5°	2596.1	2621.1	2627.0	2649.5	2678.0	2714.8	2763.4	2827.5	2894.0	2904.6	2952.1
7.5°	2412.2	2438.3	2453.8	2498.8	2551.1	2627.0	2706.5	2800.2	2910.6	2926.0	3017.4
10°	2228.3	2252.0	2272.2	2336.3	2419.3	2532.1	2661.4	2796.7	2945.0	2967.5	3096.9
12.5°	2114.4	2137.0	2159.5	2215.3	2318.5	2456.1	2631.7	2813.3	3001.9	3034.0	3204.8
15°	2074.1	2094.2	2112.0	2161.9	2258.0	2414.6	2625.8	2847.7	3074.3	3117.0	3335.4
17.5°	2080.0	2090.7	2102.5	2140.5	2234.2	2395.6	2636.5	2907.0	3159.7	3197.7	3465.9
20°	2114.4	2120.3	2121.5	2147.6	2230.7	2393.2	2657.8	2964.0	3240.4	3291.5	3595.2
22.5°	2158.3	2160.7	2158.3	2176.1	2253.2	2411.0	2686.3	3032.8	3330.6	3378.1	3725.7
25°	2363.6	2318.5	2261.5	2227.1	2291.2	2445.5	2729.0	3125.3	3429.1	3475.4	3852.7
27.5°	3000.8	2871.4	2667.3	2438.3	2369.5	2495.3	2788.4	3219.1	3528.8	3570.3	3989.1
30°	4035.4	3865.7	3519.3	3003.1	2621.1	2599.7	2865.5	3312.8	3634.4	3679.4	4135.1
32.5°	5072.4	5030.9	4631.1	3916.8	3187.0	2832.3	2993.6	3439.8	3774.4	3810.0	4332.0
35°	6121.3	6037.1	5709.6	5003.6	4059.1	3305.7	3207.2	3605.9	3958.3	3998.6	4619.2
37.5°	6924.6	6873.6	6670.7	6089.3	5093.8	4036.6	3572.7	3863.4	4225.3	4270.3	4987.0
40°	7634.2	7610.4	7541.6	7158.4	6250.7	4992.9	4141.0	4262.0	4595.5	4648.8	5437.9
42.5°	8191.8	8247.6	8286.8	8180.0	7443.1	6084.6	4905.1	4822.1	5111.6	5166.2	6012.2
45°	8762.6	8781.6	8939.4	9093.6	8627.3	7226.0	5766.6	5478.2	5753.5	5821.1	6700.4
47.5°	9129.2	9205.1	9482.8	9754.5	9622.8	8358.0	6692.1	6253.0	6497.5	6624.4	7471.6
50°	9156.5	9300.1	9682.1	10155.6	10347.8	9435.3	7698.2	7135.8	7395.7	7535.7	8295.1
52.5°	8702.1	8925.1	9517.2	10210.1	10739.3	10347.8	8738.8	8018.6	8352.0	8534.8	9149.4
55°	6671.9	6963.8	8896.6	9913.5	10754.8	11039.5	9752.1	8938.2	9417.5	9624.0	10072.5
57.5°	5812.8	5960.0	6994.6	9398.6	10468.8	11318.4	10668.1	9813.8	10576.8	10833.1	10944.6
60°	4836.3	5029.7	5866.2	8556.1	10080.8	11345.7	11477.4	10943.4	11833.3	12121.7	11744.3
62.5°	3286.7	3496.7	4328.5	7108.5	9550.4	11332.6	12140.6	12106.2	13229.9	13539.6	12421.8
65°	2036.1	2167.8	2716.0	5804.5	8808.8	11346.8	12834.8	13518.2	14703.6	15018.0	12946.3
67.5°	1608.9	1669.5	1955.4	4456.6	7530.9	11026.5	13527.7	14845.9	16090.6	16339.8	13106.5
70°	1080.9	1117.7	1422.7	2987.7	5602.8	9548.1	13514.6	15512.8	16804.9	16929.5	12522.7
72.5°	569.5	598.0	831.8	1383.5	3384.0	6787.0	11391.9	14715.4	16094.2	15906.7	10703.7
75°	284.8	332.2	560.0	702.4	1445.2	3785.1	7074.1	11602.0	12667.5	11941.3	6867.7
77.5°	215.9	261.0	462.7	462.7	503.1	1274.3	2996.0	6327.8	5836.6	4860.1	2015.9
80°	137.6	178.0	404.6	350.0	210.0	323.9	780.7	1772.7	1239.9	943.3	366.6
82.5°	80.7	116.3	337.0	231.4	117.5	119.8	220.7	377.3	321.6	250.4	112.7
85°	32.0	75.9	231.4	91.4	46.3	29.7	66.4	80.7	66.4	49.8	28.5
87.5°	0.0	17.8	40.3	0.0	3.6	2.4	4.7	5.9	5.9	4.7	9.5
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°	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7
2.5°	2943.8	2946.2	2953.3	2954.5	2937.9	2916.5	2908.2	2904.6	2890.4	2889.2	2891.6
5°	2979.4	2990.1	2979.4	2948.5	2875.0	2771.7	2693.4	2629.4	2571.2	2553.4	2542.7
7.5°	3050.6	3061.3	3029.2	2908.2	2723.1	2517.8	2332.7	2202.2	2084.7	2040.8	2023.0
10°	3152.6	3166.9	3066.0	2821.6	2494.1	2164.2	1851.0	1630.3	1458.3	1388.2	1358.6
12.5°	3280.8	3286.7	3086.2	2689.9	2196.3	1725.2	1281.5	1045.3	892.3	835.3	817.5
15°	3422.0	3413.7	3088.6	2510.7	1790.5	1219.8	836.5	687.0	625.3	606.3	606.3
17.5°	3570.3	3535.9	3041.1	2252.0	1345.5	834.1	620.6	585.0	574.3	569.5	568.4
20°	3716.2	3639.1	2954.5	1913.9	965.8	622.9	563.6	552.9	547.0	544.6	542.2
22.5°	3849.1	3717.4	2806.2	1521.1	701.2	550.6	532.8	523.3	512.6	507.8	506.7
25°	3978.5	3762.5	2597.3	1154.5	561.2	515.0	500.7	482.9	468.7	462.7	460.4
27.5°	4104.2	3791.0	2336.3	854.3	500.7	481.7	455.6	430.7	420.0	417.7	415.3
30°	4238.3	3800.5	2039.7	637.2	463.9	440.2	402.2	373.8	367.8	369.0	369.0
32.5°	4402.0	3814.7	1740.6	522.1	433.1	390.4	345.3	315.6	310.9	315.6	314.4
35°	4597.8	3843.2	1452.3	480.5	405.8	339.3	290.7	265.8	261.0	264.6	263.4
37.5°	4863.6	3889.5	1183.0	472.2	383.3	296.6	244.4	224.3	224.3	225.4	224.3
40°	5217.2	4012.9	942.1	466.3	371.4	264.6	206.5	198.2	201.7	204.1	204.1
42.5°	5647.9	4275.1	779.6	459.2	358.3	250.4	187.5	183.9	189.8	192.2	192.2
45°	6130.8	4607.3	722.6	447.3	346.5	259.9	179.2	174.4	181.5	182.7	183.9
47.5°	6630.4	4932.4	715.5	434.3	334.6	274.1	176.8	166.1	174.4	175.6	176.8
50°	7135.8	5144.8	722.6	414.1	315.6	274.1	178.0	157.8	164.9	168.5	169.7
52.5°	7644.9	5242.1	717.9	370.2	282.4	257.5	178.0	150.7	157.8	160.2	160.2
55°	8138.5	5223.1	645.5	304.9	239.7	227.8	173.2	144.8	149.5	150.7	150.7
57.5°	8528.8	4958.5	511.4	237.3	194.6	189.8	157.8	137.6	141.2	140.0	140.0
60°	8732.9	4377.1	365.5	182.7	153.1	149.5	138.8	128.1	130.5	124.6	123.4
62.5°	8735.3	3608.3	244.4	144.8	122.2	118.7	118.7	115.1	112.7	100.9	97.3
65°	8549.0	2755.1	162.6	115.1	98.5	92.5	99.7	98.5	90.2	73.6	71.2
67.5°	8126.6	1805.9	123.4	90.2	75.9	72.4	79.5	83.1	77.1	61.7	60.5
70°	7258.0	1051.3	102.0	70.0	57.0	53.4	64.1	71.2	64.1	49.8	47.5
72.5°	6028.8	567.2	83.1	52.2	39.2	35.6	51.0	58.1	51.0	36.8	35.6
75°	3912.0	303.8	64.1	34.4	20.2	22.5	38.0	42.7	35.6	23.7	21.4
77.5°	1313.5	134.1	40.3	16.6	9.5	9.5	22.5	26.1	16.6	8.3	7.1
80°	293.1	55.8	16.6	7.1	3.6	3.6	4.7	4.7	2.4	0.0	0.0
82.5°	96.1	22.5	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.8	8.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.2	1.2	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)