

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: P948461

Luminaire Tested: **GALN-SB3C-730-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17308 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 149.1
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

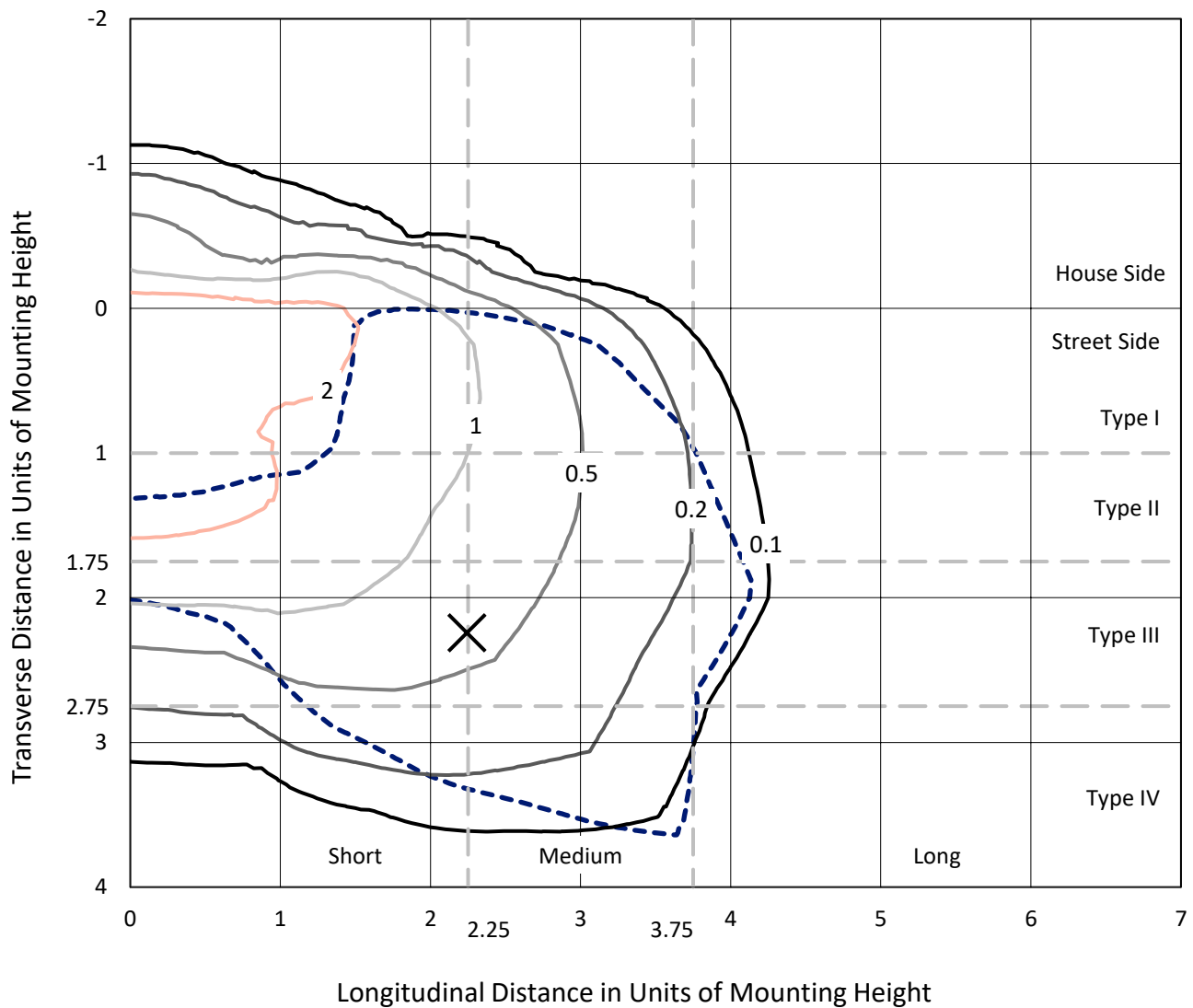


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Iso-Footcandle Lines of Horizontal Illumination

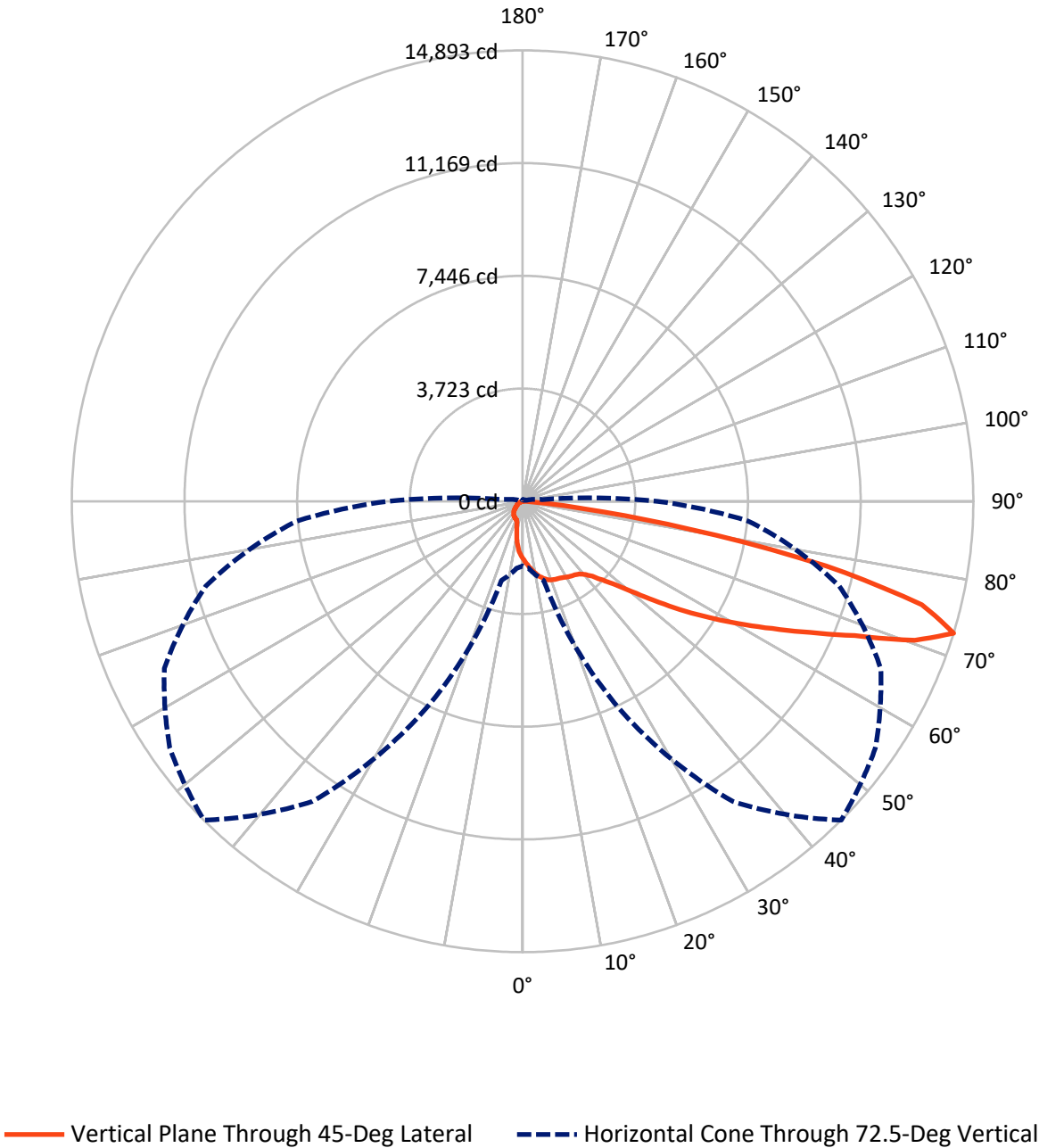
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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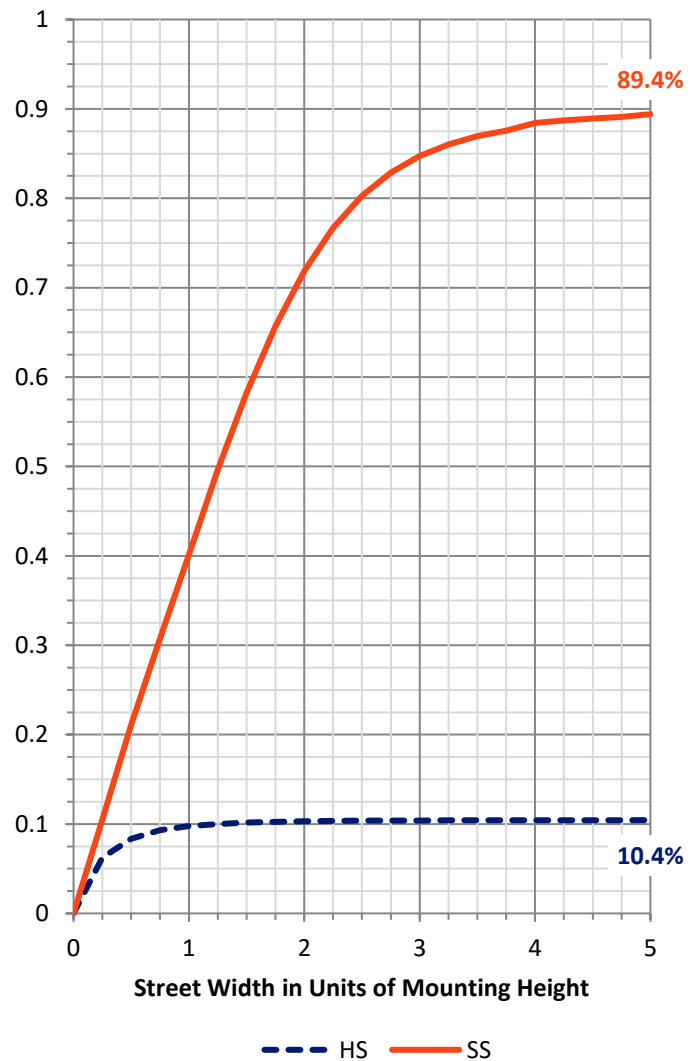
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1818.6	0.0	1818.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15489.4	0.0	15489.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	17308.0	0.0	17308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	1.0
10°-20°	522.1	3.0
20°-30°	857.4	5.0
30°-40°	1216.0	7.0
40°-50°	2010.0	11.6
50°-60°	3610.7	20.9
60°-70°	5013.6	29.0
70°-80°	3636.7	21.0
80°-90°	262.9	1.5
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°	17308.0	100.0
0°-180°	17308.0	100.0

Coefficient of Utilization



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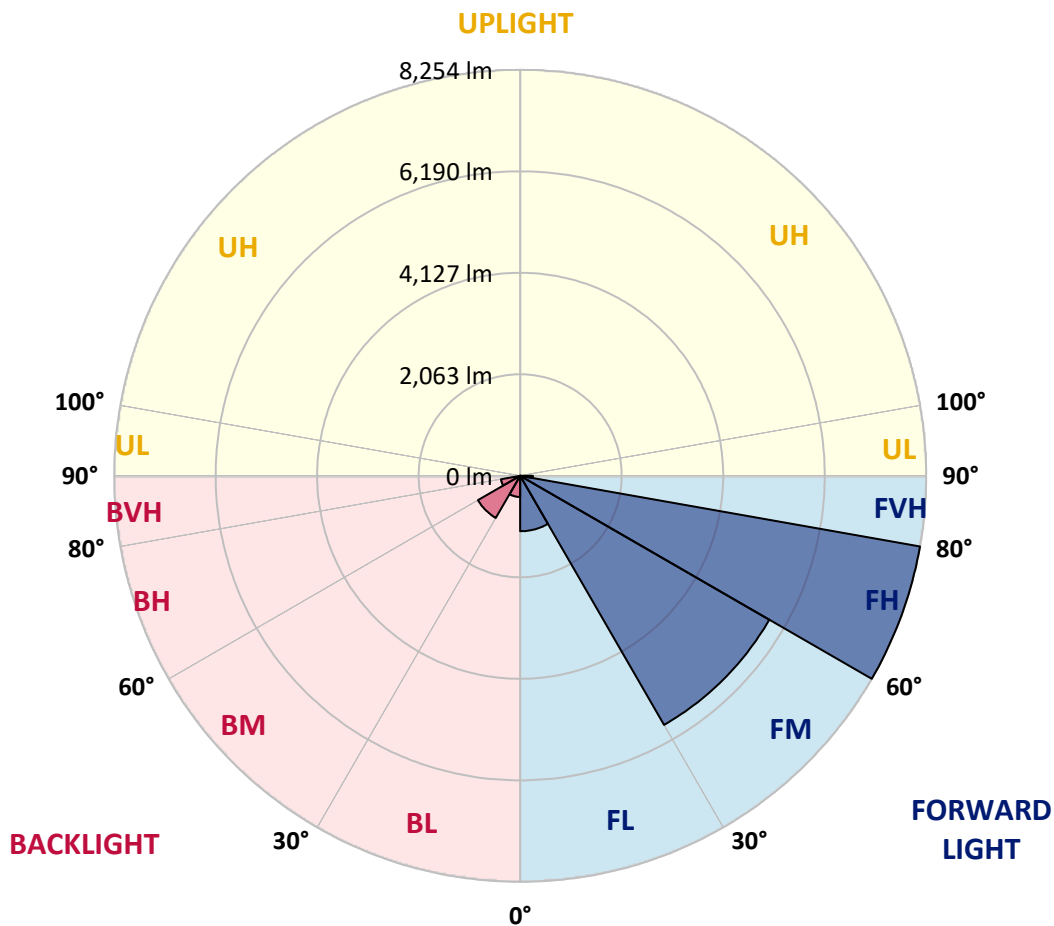
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1127.4	6.5			
FM	(30°-60°)	5847.6	33.8			
FH	(60°-80°)	8253.7	47.7			G4/12000
FVH	(80°-90°)	260.7	1.5			G3/500
BL	(0°-30°)	430.8	2.5	B1/500		
BM	(30°-60°)	989.1	5.7	B1/1000		
BH	(60°-80°)	396.6	2.3	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1
2.5°	2071.0	2074.5	2072.2	2058.0	2034.4	2021.4	2014.3	1990.6	1975.3	1948.1	1919.8
5°	2261.2	2275.4	2267.1	2238.7	2193.8	2161.9	2152.5	2104.1	2060.3	2009.5	1950.5
7.5°	2463.2	2470.3	2454.9	2418.3	2358.1	2303.7	2295.4	2228.1	2158.4	2080.4	2000.1
10°	2638.0	2646.3	2622.7	2569.5	2501.0	2433.7	2421.8	2347.4	2264.7	2169.0	2066.2
12.5°	2784.5	2792.8	2762.1	2698.3	2622.7	2553.0	2541.2	2463.2	2372.2	2265.9	2138.3
15°	2895.6	2910.9	2869.6	2801.1	2719.6	2649.9	2643.9	2567.2	2478.6	2360.4	2224.6
17.5°	2960.6	2975.9	2936.9	2854.2	2784.5	2725.5	2718.4	2654.6	2571.9	2458.5	2308.4
20°	2971.2	2985.4	2944.0	2872.0	2814.1	2766.8	2763.3	2717.2	2656.9	2548.3	2399.4
22.5°	2939.3	2957.0	2919.2	2861.3	2821.2	2796.3	2791.6	2765.6	2731.4	2639.2	2484.5
25°	2906.2	2920.4	2892.0	2841.2	2820.0	2817.6	2821.2	2816.4	2809.3	2731.4	2583.7
27.5°	2903.9	2919.2	2887.3	2838.9	2827.1	2851.9	2855.4	2877.9	2883.8	2815.2	2679.4
30°	2923.9	2934.6	2903.9	2853.1	2847.1	2903.9	2905.0	2945.2	2954.7	2886.1	2773.9
32.5°	2967.6	2979.5	2948.7	2874.3	2866.0	2945.2	2948.7	3001.9	3017.3	2961.7	2873.1
35°	3070.4	3084.6	3049.2	2933.4	2903.9	2984.2	2994.8	3057.4	3088.1	3042.1	2975.9
37.5°	3326.8	3285.4	3237.0	3052.7	2990.1	3045.6	3063.3	3136.6	3190.9	3137.8	3098.8
40°	3963.6	3833.6	3682.4	3255.9	3141.3	3176.8	3190.9	3264.2	3338.6	3286.6	3267.7
42.5°	4919.3	4765.7	4522.4	3723.7	3369.3	3387.0	3397.7	3461.5	3566.6	3525.3	3530.0
45°	5771.1	5715.6	5467.5	4522.4	3795.8	3708.4	3721.4	3754.5	3909.2	3893.9	3924.6
47.5°	6425.6	6393.7	6202.3	5439.1	4516.4	4101.8	4138.4	4153.8	4377.0	4431.4	4514.1
50°	6928.8	6917.0	6745.7	6254.3	5458.0	4681.8	4694.8	4661.8	4996.1	5130.8	5287.9
52.5°	7403.8	7443.9	7317.5	7011.5	6463.4	5441.5	5439.1	5283.2	5734.5	5937.7	6205.8
55°	7832.6	7846.8	7859.8	7784.2	7474.6	6306.3	6283.8	6028.6	6591.0	6801.3	7091.9
57.5°	8235.5	8241.4	8357.1	8511.9	8527.3	7234.8	7193.5	6887.5	7526.6	7676.7	7855.1
60°	8506.0	8533.2	8777.7	9207.7	9395.6	8192.9	8170.5	7858.6	8478.8	8548.5	8515.4
62.5°	8116.1	8281.5	8898.2	9751.2	10215.5	9255.0	9244.4	8951.4	9480.6	9423.9	9140.4
65°	6569.7	6849.7	7934.2	10118.6	11020.0	10441.1	10456.5	10144.6	10509.6	10325.3	9648.4
67.5°	4595.6	4890.9	6173.9	10148.1	11919.0	11834.0	11922.6	11433.5	11602.4	11188.9	9768.9
70°	3177.9	3330.3	4165.6	9512.5	12619.6	13752.5	13750.2	13016.5	12689.3	11582.3	9154.6
72.5°	2137.1	2216.3	2705.4	7546.7	12104.5	14892.6	14824.1	14226.3	13055.5	10832.1	7479.4
75°	901.4	959.3	1252.3	4241.2	9576.3	13625.0	13439.5	12572.3	11600.1	8529.6	4666.5
77.5°	285.9	310.7	493.8	1518.1	5274.9	10241.5	10045.3	7851.5	7774.7	4279.0	1705.9
80°	135.9	158.3	277.6	609.6	2075.7	5570.2	5543.1	3561.9	3344.5	1155.4	342.6
82.5°	59.1	69.7	153.6	326.1	928.6	1987.1	2027.3	1212.1	1003.0	438.3	105.1
85°	18.9	24.8	70.9	150.0	392.2	493.8	487.9	288.3	404.0	238.6	36.6
87.5°	0.0	0.0	23.6	34.3	40.2	28.4	31.9	24.8	112.2	66.2	13.0
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°	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1
2.5°	1905.6	1886.7	1853.6	1822.9	1795.7	1768.5	1752.0	1728.4	1726.0	1726.0	1731.9
5°	1918.6	1887.9	1828.8	1766.2	1694.1	1625.6	1557.1	1490.9	1469.6	1454.3	1461.4
7.5°	1956.4	1907.9	1814.6	1695.3	1558.3	1408.2	1303.1	1189.7	1145.9	1122.3	1125.9
10°	2010.7	1944.6	1802.8	1593.7	1371.6	1167.2	1017.2	894.3	847.1	827.0	827.0
12.5°	2071.0	1989.5	1781.5	1467.3	1167.2	922.7	776.2	719.5	712.4	712.4	712.4
15°	2143.0	2043.8	1744.9	1318.4	953.4	730.1	678.1	680.5	687.6	692.3	692.3
17.5°	2217.5	2101.7	1687.0	1151.9	764.4	656.9	658.0	661.6	667.5	672.2	672.2
20°	2297.8	2159.6	1610.2	974.6	655.7	635.6	639.1	642.7	647.4	649.8	650.9
22.5°	2384.0	2213.9	1519.3	801.0	619.0	617.9	619.0	622.6	628.5	628.5	630.9
25°	2476.2	2274.2	1415.3	674.6	600.1	600.1	602.5	604.9	609.6	609.6	610.8
27.5°	2570.7	2329.7	1305.4	608.4	583.6	582.4	582.4	586.0	588.3	589.5	590.7
30°	2674.7	2394.7	1195.6	594.2	570.6	564.7	561.2	563.5	565.9	567.1	569.4
32.5°	2781.0	2457.3	1097.5	600.1	557.6	547.0	535.2	532.8	532.8	537.5	541.1
35°	2899.1	2525.8	1021.9	620.2	550.5	521.0	502.1	491.5	492.6	499.7	503.3
37.5°	3040.9	2608.5	966.4	637.9	545.8	491.5	460.7	447.7	439.5	447.7	445.4
40°	3226.4	2730.2	926.2	652.1	539.9	457.2	415.8	394.6	379.2	384.0	381.6
42.5°	3499.3	2921.6	910.9	653.3	526.9	417.0	369.8	341.4	319.0	320.2	315.4
45°	3882.0	3224.0	990.0	637.9	498.5	373.3	321.3	283.5	269.4	265.8	261.1
47.5°	4406.6	3664.7	1173.1	606.1	457.2	330.8	274.1	242.2	231.6	225.6	222.1
50°	5109.5	4230.6	1376.3	570.6	415.8	290.6	235.1	215.0	207.9	202.0	200.8
52.5°	5924.7	4804.7	1542.9	535.2	374.5	255.2	210.3	198.5	192.6	187.8	186.7
55°	6672.5	5200.5	1533.4	497.4	334.3	226.8	192.6	185.5	178.4	173.7	171.3
57.5°	7137.9	5256.0	1264.1	456.0	288.3	204.4	176.0	171.3	163.0	157.1	155.9
60°	7351.8	4939.4	886.0	401.7	242.2	183.1	158.3	155.9	145.3	137.0	134.7
62.5°	7390.8	4351.1	590.7	334.3	202.0	163.0	140.6	137.0	122.9	108.7	101.6
65°	7232.5	3509.9	408.8	261.1	172.5	141.8	120.5	113.4	98.1	83.9	79.2
67.5°	6731.6	2464.4	284.7	187.8	146.5	112.2	95.7	93.3	81.5	69.7	66.2
70°	5813.6	1404.7	190.2	140.6	115.8	76.8	75.6	78.0	66.2	56.7	52.0
72.5°	4457.4	642.7	118.1	102.8	79.2	52.0	60.3	61.4	50.8	42.5	37.8
75°	2623.9	275.3	74.4	66.2	40.2	34.3	43.7	44.9	34.3	27.2	23.6
77.5°	893.1	104.0	47.3	39.0	20.1	18.9	28.4	28.4	18.9	10.6	8.3
80°	203.2	39.0	23.6	15.4	9.5	8.3	9.5	8.3	4.7	1.2	0.0
82.5°	57.9	15.4	9.5	5.9	3.5	3.5	1.2	0.0	0.0	0.0	0.0
85°	16.5	7.1	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	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)