

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: P950844

Luminaire Tested: **GALN-SB5A-935-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-935-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15406 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

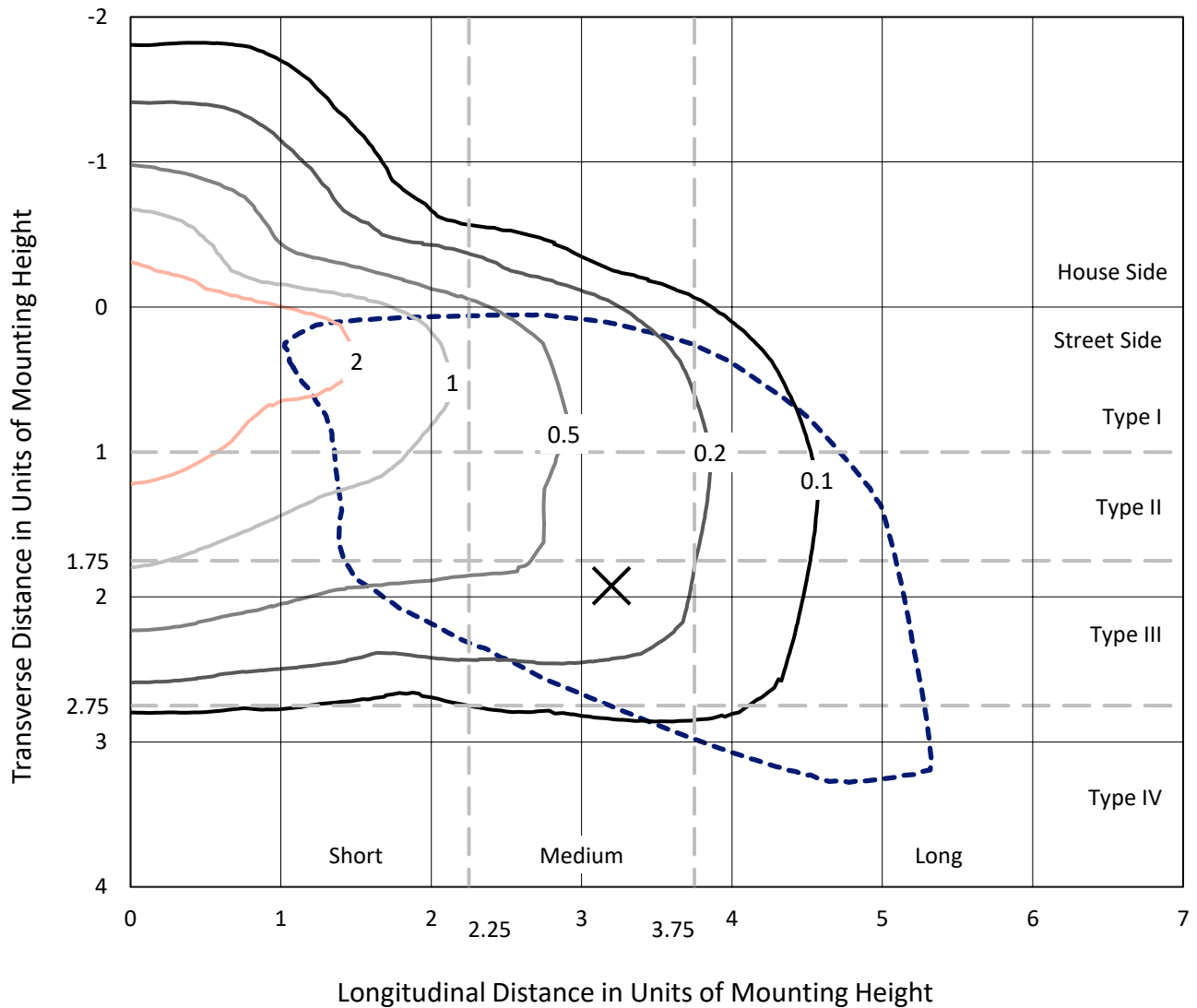
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

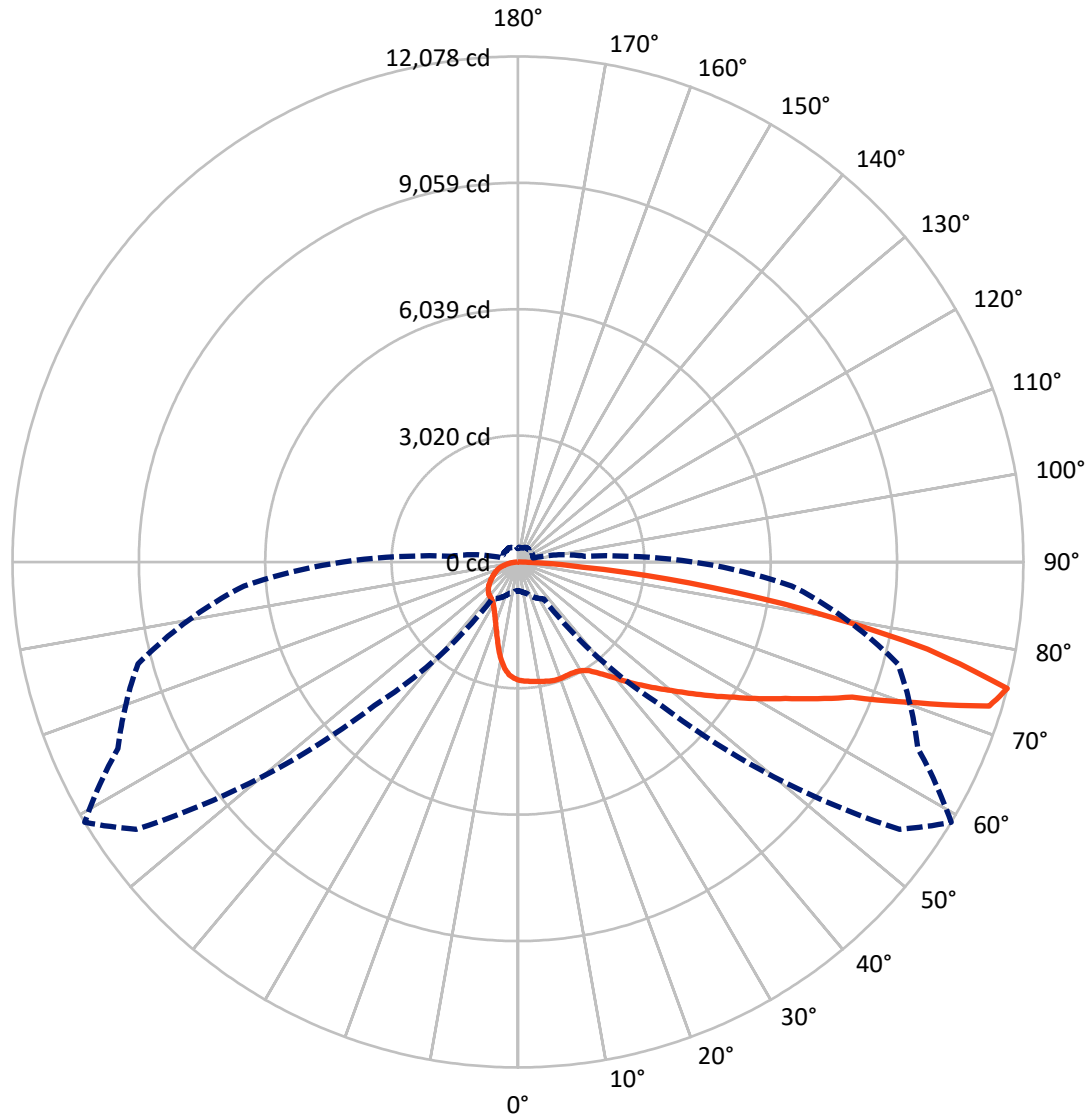
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2889.5	0.0	2889.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12516.5	0.0	12516.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	15406.0	0.0	15406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	1.6
10°-20°	648.1	4.2
20°-30°	984.4	6.4
30°-40°	1463.3	9.5
40°-50°	2176.2	14.1
50°-60°	2953.9	19.2
60°-70°	3606.2	23.4
70°-80°	2830.1	18.4
80°-90°	490.2	3.2
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°	15406.0	100.0
0°-180°	15406.0	100.0

Coefficient of Utilization



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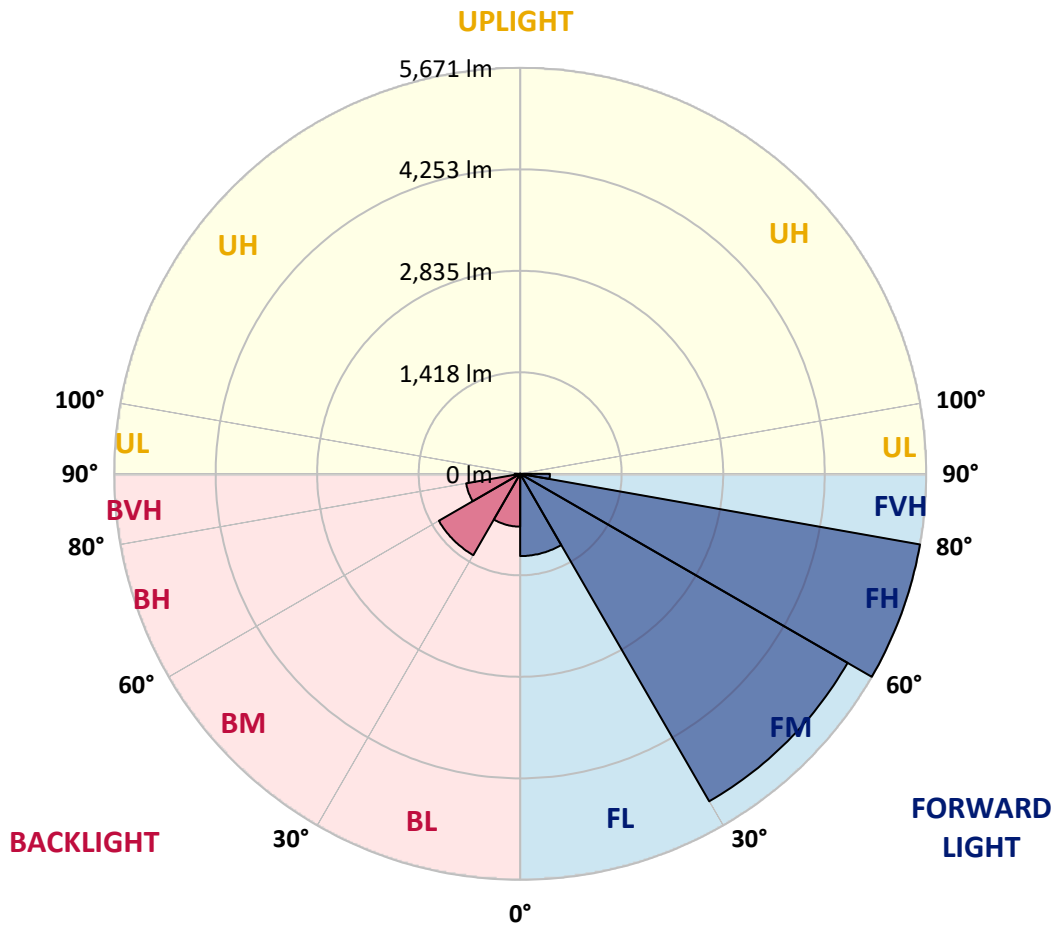
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.7	7.5			
FM (30°-60°)	5281.8	34.3			
FH (60°-80°)	5670.8	36.8			G3/7500
FVH (80°-90°)	415.2	2.7			G3/500
BL (0°-30°)	737.4	4.8	B2/1000		
BM (30°-60°)	1311.5	8.5	B2/2500		
BH (60°-80°)	765.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	75.0	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7
2.5°	2851.8	2841.8	2851.8	2847.6	2846.0	2842.7	2843.5	2849.3	2846.0	2850.1
5°	2832.7	2826.9	2836.9	2834.4	2845.1	2846.8	2857.6	2864.2	2868.3	2869.2
7.5°	2801.2	2795.4	2809.5	2821.1	2844.3	2850.9	2873.3	2884.1	2889.9	2899.8
10°	2686.0	2683.5	2718.3	2762.3	2817.0	2850.9	2884.9	2903.2	2912.3	2938.8
12.5°	2482.1	2485.5	2531.0	2615.6	2725.0	2834.4	2898.2	2924.7	2938.8	2971.9
15°	2287.4	2286.6	2336.3	2426.6	2579.9	2761.4	2904.8	2950.4	2974.4	3023.3
17.5°	2174.7	2171.4	2206.2	2275.0	2417.5	2649.6	2888.2	2964.5	3015.9	3077.2
20°	2154.0	2147.3	2165.6	2199.5	2300.6	2526.9	2845.1	2964.5	3049.0	3128.6
22.5°	2229.4	2218.6	2211.1	2207.0	2251.7	2425.8	2796.2	2954.5	3097.9	3202.3
25°	2381.0	2364.5	2326.3	2289.0	2275.8	2380.2	2753.1	2952.1	3170.8	3301.8
27.5°	2626.3	2605.6	2528.6	2439.0	2358.7	2403.4	2734.1	2967.0	3251.2	3407.0
30°	2930.5	2908.1	2811.2	2673.6	2529.4	2489.6	2758.1	3010.9	3354.0	3547.1
32.5°	3203.2	3178.3	3095.4	2955.4	2760.6	2638.8	2834.4	3094.6	3515.6	3741.9
35°	3445.2	3416.2	3341.6	3212.3	3044.0	2848.5	2971.9	3242.9	3745.2	4058.4
37.5°	3682.2	3648.2	3567.0	3430.2	3312.6	3127.7	3161.7	3433.6	4050.2	4443.0
40°	3947.4	3898.5	3799.9	3664.8	3550.4	3455.1	3411.2	3667.3	4360.1	4872.3
42.5°	4204.3	4157.9	4040.2	3925.0	3781.6	3754.3	3700.4	3940.8	4699.1	5343.9
45°	4481.1	4425.6	4283.0	4137.2	4046.8	3953.2	3980.5	4214.3	5031.4	5824.5
47.5°	4740.5	4678.4	4510.1	4347.7	4298.0	4120.6	4237.5	4515.1	5377.0	6311.9
50°	4880.6	4819.3	4679.2	4532.5	4493.5	4327.0	4515.9	4845.8	5739.2	6797.5
52.5°	4997.4	4931.1	4748.0	4666.8	4655.2	4551.6	4859.0	5223.7	6101.3	7226.8
55°	5121.8	5048.0	4814.3	4741.3	4794.4	4803.5	5266.0	5652.2	6484.2	7645.3
57.5°	5265.1	5171.5	4878.1	4804.3	4930.3	5098.5	5733.4	6096.4	6860.5	8033.2
60°	5400.2	5305.7	5000.8	4904.6	5077.0	5440.8	6269.6	6634.2	7286.5	8378.8
62.5°	5426.7	5348.8	5098.5	5097.7	5275.9	5840.3	6904.4	7177.1	7658.6	8720.2
65°	4967.6	4918.7	4770.4	5090.3	5561.0	6415.4	7611.4	7871.6	8131.8	9018.6
67.5°	3780.8	3787.4	3776.7	4394.1	5330.6	7241.7	8634.9	8615.0	8716.1	9353.4
70°	1728.8	1767.7	2021.4	3033.3	4270.6	7337.0	10327.2	10069.5	9449.5	9786.9
72.5°	934.0	963.9	1067.4	1469.4	2567.5	6523.2	11591.9	11775.1	10425.0	10078.6
75°	685.4	702.0	774.1	934.0	1078.2	4848.3	11138.6	12078.4	10546.8	9398.2
77.5°	513.0	520.5	579.3	740.1	552.0	2555.9	8900.1	10003.2	9028.5	7721.6
80°	372.1	380.4	424.3	555.3	387.0	934.8	6111.3	7021.3	6183.4	4922.0
82.5°	256.9	260.2	279.3	377.9	270.2	363.0	3467.5	4117.3	3451.8	1727.1
85°	155.0	159.1	167.4	220.5	153.3	172.4	1496.7	1548.1	1031.8	412.7
87.5°	63.8	68.0	74.6	92.8	60.5	48.1	247.0	310.0	193.1	121.0
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2827.7	0°	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7
2836.0	2.5°	2831.9	2826.1	2810.3	2788.8	2768.9	2744.0	2733.3	2724.1	2715.9	2700.1
2858.4	5°	2849.3	2833.5	2791.3	2736.6	2674.4	2606.5	2540.2	2494.6	2455.6	2426.6
2884.1	7.5°	2875.8	2846.0	2768.9	2657.0	2514.5	2368.6	2236.8	2143.2	2072.7	2047.0
2920.6	10°	2903.2	2867.5	2733.3	2536.0	2289.9	2065.3	1890.4	1794.3	1737.9	1719.7
2963.7	12.5°	2935.5	2883.3	2677.7	2367.8	2038.8	1792.6	1640.1	1583.8	1554.8	1544.8
3016.7	15°	2982.7	2896.5	2594.0	2157.3	1799.2	1593.7	1495.1	1456.1	1441.2	1440.4
3071.4	17.5°	3018.4	2899.0	2463.9	1931.8	1615.3	1473.5	1392.3	1377.4	1387.3	1402.3
3125.3	20°	3058.1	2876.6	2293.2	1726.3	1486.0	1368.3	1334.3	1344.3	1368.3	1389.8
3196.5	22.5°	3086.3	2836.0	2086.8	1566.4	1374.1	1307.8	1306.1	1326.8	1340.1	1350.9
3280.2	25°	3111.2	2767.2	1868.0	1432.1	1282.1	1271.3	1289.6	1282.9	1273.8	1282.9
3363.9	27.5°	3129.4	2658.7	1672.4	1314.4	1217.5	1246.5	1235.7	1220.8	1219.9	1224.9
3462.6	30°	3123.6	2513.6	1511.7	1202.5	1171.9	1200.0	1174.4	1171.9	1169.4	1171.9
3610.9	32.5°	3123.6	2348.7	1388.2	1125.5	1142.9	1132.1	1129.6	1123.8	1113.9	1113.0
3812.3	35°	3141.0	2183.8	1282.1	1084.0	1118.8	1093.1	1094.8	1080.7	1060.0	1050.0
4079.2	37.5°	3176.6	2051.2	1176.8	1064.1	1076.6	1075.7	1069.1	1045.1	1008.6	977.1
4412.3	40°	3262.8	2012.2	1104.7	1055.0	1056.7	1066.6	1049.2	1002.8	919.9	868.5
4750.5	42.5°	3397.9	2077.7	1089.0	1032.6	1043.4	1053.4	1019.4	911.6	852.8	822.1
5105.2	45°	3569.5	2192.1	1123.0	1000.3	1011.9	1029.3	928.2	876.8	850.3	851.1
5456.6	47.5°	3786.6	2312.2	1186.0	972.1	966.3	976.3	867.7	836.2	799.8	808.9
5793.9	50°	4037.7	2434.1	1245.6	934.0	915.8	883.5	828.8	798.9	752.5	731.0
6119.6	52.5°	4309.6	2551.8	1269.7	887.6	861.1	823.8	802.2	765.8	709.4	673.8
6427.1	55°	4567.3	2658.7	1243.1	832.1	806.4	777.4	774.1	751.7	691.2	641.5
6700.5	57.5°	4811.0	2748.2	1176.8	775.7	750.9	733.5	755.8	745.1	668.8	605.0
6959.1	60°	5017.3	2809.5	1080.7	718.5	701.1	692.0	726.0	722.7	637.3	566.0
7191.2	62.5°	5181.4	2833.5	974.6	663.8	659.7	643.1	684.6	684.6	597.5	527.9
7395.0	65°	5309.9	2810.3	866.9	610.0	618.3	593.4	634.0	629.0	555.3	493.9
7629.6	67.5°	5423.4	2734.1	747.5	556.9	576.0	544.5	581.0	569.4	508.9	460.0
7832.6	70°	5474.0	2556.7	611.6	503.9	527.1	496.4	527.9	506.4	456.6	423.5
7609.7	72.5°	5067.9	2124.9	481.5	448.4	468.3	443.4	470.7	445.9	400.3	385.4
6571.3	75°	4192.7	1594.5	370.5	387.9	402.8	383.7	401.9	383.7	342.3	353.1
4854.1	77.5°	3044.9	1076.6	283.4	324.0	330.7	320.7	336.5	315.8	278.5	276.0
2419.2	80°	1514.1	630.7	222.1	256.1	253.6	247.0	265.2	255.3	223.8	237.0
653.1	82.5°	438.4	270.2	161.6	179.8	174.9	176.5	189.8	194.8	291.7	289.2
203.0	85°	137.6	106.1	97.0	100.3	95.3	97.8	111.9	222.1	205.5	120.2
63.0	87.5°	35.6	36.5	24.0	25.7	26.5	31.5	35.6	135.1	64.6	42.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
2827.7
2692.6
2402.6
2002.3
1691.5
1547.3
1443.7
1408.1
1397.3
1356.7
1288.7
1233.2
1181.0
1123.8
1060.0
987.9
875.2
822.1
855.3
832.1
736.8
673.0
641.5
601.7
563.6
525.4
490.6
456.6
416.9
372.9
322.4
263.5
234.5
295.9
130.1
44.8
0.0

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