

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: P948219

Luminaire Tested: **GALN-SB3B-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948219
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-SB3B-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14837 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

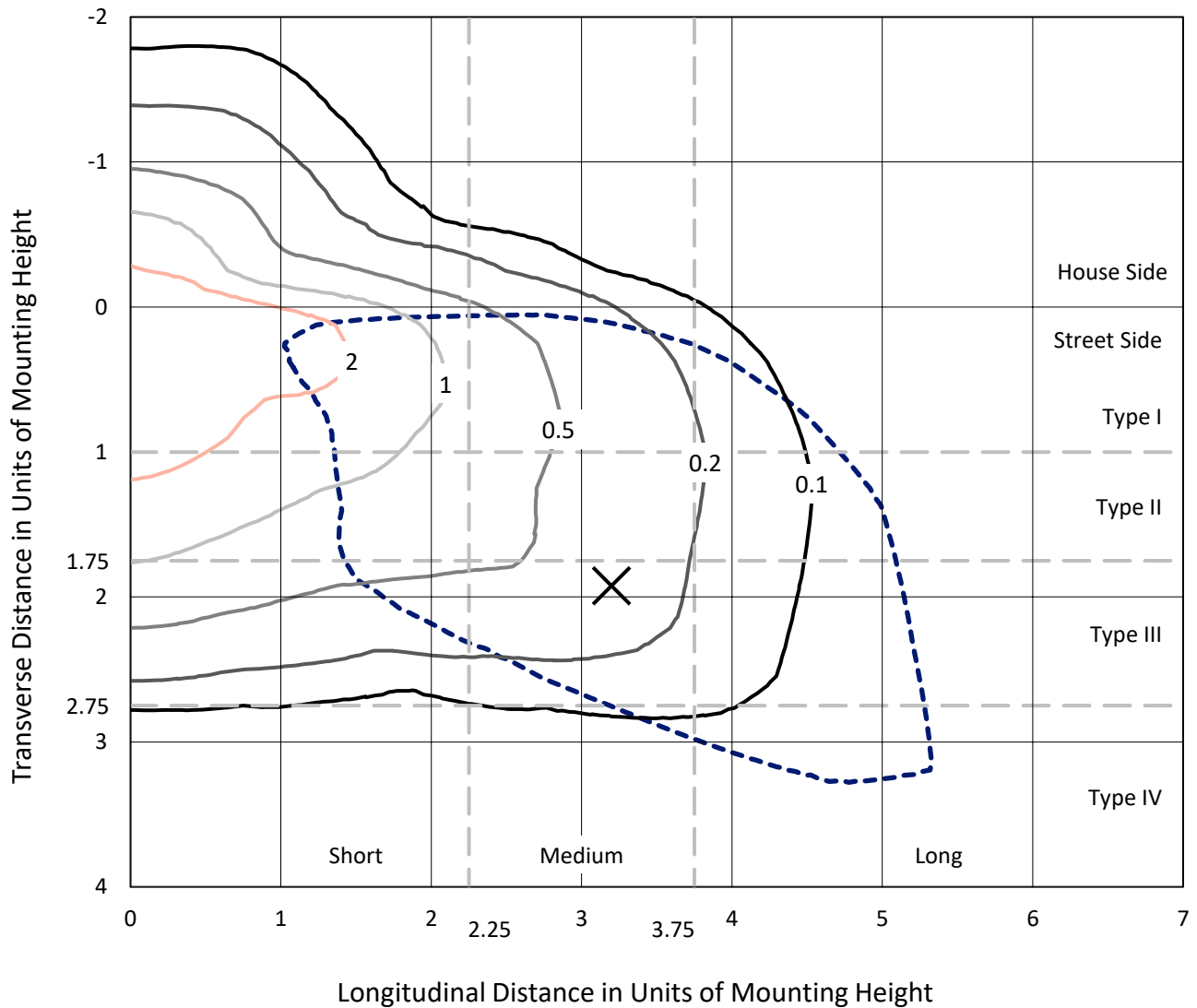
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

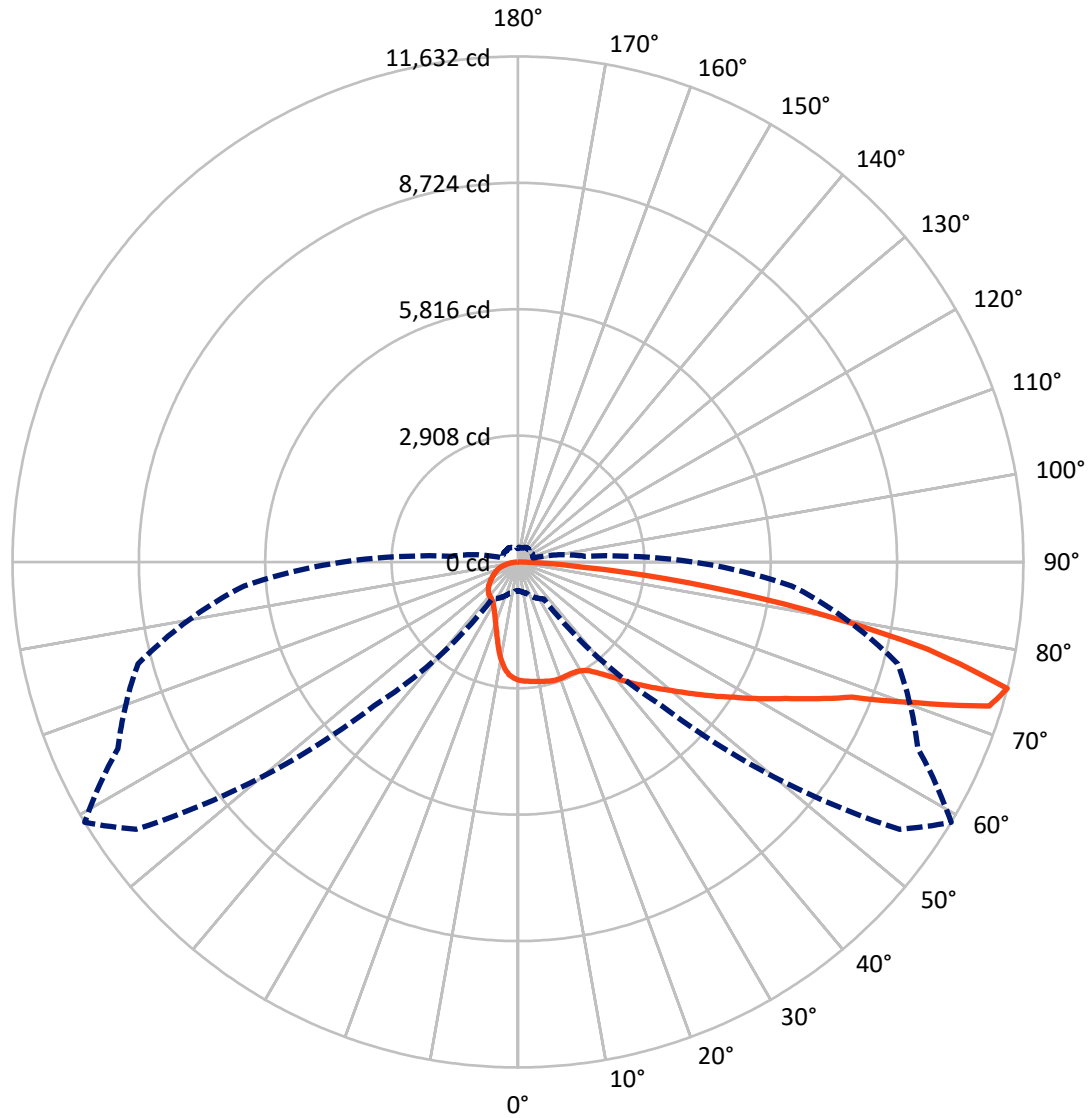
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	2782.8	0.0	2782.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12054.2	0.0	12054.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	14837.0	0.0	14837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	1.6
10°-20°	624.2	4.2
20°-30°	948.0	6.4
30°-40°	1409.2	9.5
40°-50°	2095.8	14.1
50°-60°	2844.8	19.2
60°-70°	3473.0	23.4
70°-80°	2725.6	18.4
80°-90°	472.1	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°	14837.0	100.0
0°-180°	14837.0	100.0

Coefficient of Utilization



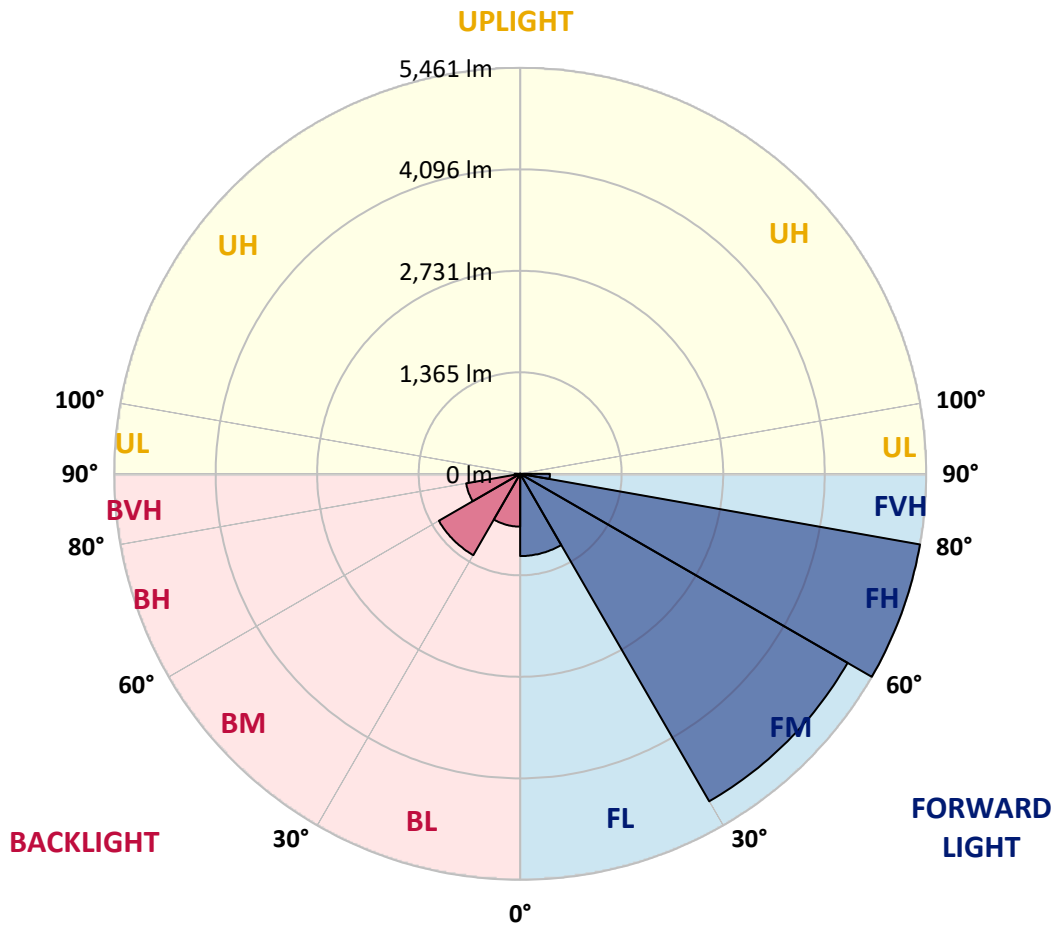
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.3	7.5			
FM (30°-60°)	5086.7	34.3			
FH (60°-80°)	5461.4	36.8			G3/7500
FVH (80°-90°)	399.9	2.7			G3/500
BL (0°-30°)	710.1	4.8	B2/1000		
BM (30°-60°)	1263.1	8.5	B2/2500		
BH (60°-80°)	737.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	72.3	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°	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3
2.5°	2746.4	2736.9	2746.4	2742.5	2740.9	2737.7	2738.5	2744.1	2740.9	2744.8
5°	2728.1	2722.5	2732.1	2729.7	2740.1	2741.7	2752.0	2758.4	2762.4	2763.2
7.5°	2697.8	2692.2	2705.7	2716.9	2739.3	2745.6	2767.2	2777.6	2783.2	2792.7
10°	2586.8	2584.4	2617.9	2660.2	2712.9	2745.6	2778.4	2795.9	2804.7	2830.3
12.5°	2390.5	2393.7	2437.6	2519.0	2624.3	2729.7	2791.1	2816.7	2830.3	2862.2
15°	2202.9	2202.1	2250.0	2337.0	2484.7	2659.4	2797.5	2841.4	2864.6	2911.7
17.5°	2094.4	2091.2	2124.7	2190.9	2328.2	2551.7	2781.6	2855.0	2904.5	2963.5
20°	2074.4	2068.0	2085.6	2118.3	2215.7	2433.6	2740.1	2855.0	2936.4	3013.0
22.5°	2147.0	2136.7	2129.5	2125.5	2168.6	2336.2	2693.0	2845.4	2983.5	3084.1
25°	2293.1	2277.1	2240.4	2204.5	2191.7	2292.3	2651.5	2843.0	3053.7	3179.8
27.5°	2529.3	2509.4	2435.2	2349.0	2271.5	2314.6	2633.1	2857.4	3131.2	3281.2
30°	2822.3	2800.7	2707.3	2574.8	2436.0	2397.7	2656.3	2899.7	3230.1	3416.1
32.5°	3084.9	3060.9	2981.1	2846.2	2658.6	2541.3	2729.7	2980.3	3385.8	3603.7
35°	3317.9	3290.0	3218.2	3093.6	2931.6	2743.3	2862.2	3123.2	3606.9	3908.6
37.5°	3546.2	3513.5	3435.3	3303.6	3190.2	3012.2	3045.0	3306.7	3900.6	4278.9
40°	3801.6	3754.5	3659.5	3529.4	3419.3	3327.5	3285.2	3531.8	4199.1	4692.3
42.5°	4049.0	4004.3	3891.0	3780.1	3642.0	3615.6	3563.8	3795.2	4525.5	5146.5
45°	4315.6	4262.1	4124.9	3984.4	3897.4	3807.2	3833.5	4058.6	4845.6	5609.4
47.5°	4565.4	4505.6	4343.5	4187.1	4139.2	3968.4	4081.0	4348.3	5178.4	6078.7
50°	4700.3	4641.3	4506.4	4365.1	4327.6	4167.2	4349.1	4666.8	5527.2	6546.5
52.5°	4812.9	4749.0	4572.6	4494.4	4483.2	4383.5	4679.6	5030.8	5876.0	6959.9
55°	4932.6	4861.6	4636.5	4566.2	4617.3	4626.1	5071.5	5443.4	6244.7	7363.0
57.5°	5070.7	4980.5	4697.9	4626.9	4748.2	4910.2	5521.6	5871.2	6607.1	7736.5
60°	5200.8	5109.8	4816.1	4723.5	4889.5	5239.9	6038.0	6389.2	7017.4	8069.3
62.5°	5226.3	5151.3	4910.2	4909.4	5081.0	5624.6	6649.4	6912.0	7375.7	8398.2
65°	4784.1	4737.0	4594.2	4902.3	5355.6	6178.5	7330.2	7580.9	7831.5	8685.5
67.5°	3641.2	3647.6	3637.2	4231.8	5133.7	6974.3	8316.0	8296.8	8394.2	9008.0
70°	1664.9	1702.5	1946.7	2921.2	4112.9	7066.0	9945.8	9697.6	9100.5	9425.4
72.5°	899.5	928.3	1028.0	1415.1	2472.7	6282.3	11163.8	11340.2	10040.0	9706.3
75°	660.1	676.0	745.5	899.5	1038.4	4669.2	10727.2	11632.3	10157.3	9051.1
77.5°	494.1	501.2	557.9	712.8	531.6	2461.5	8571.4	9633.7	8695.1	7436.4
80°	358.4	366.4	408.7	534.8	372.7	900.3	5885.6	6762.0	5955.0	4740.2
82.5°	247.4	250.6	269.0	364.0	260.2	349.6	3339.5	3965.2	3324.3	1663.4
85°	149.3	153.2	161.2	212.3	147.7	166.0	1441.5	1490.9	993.7	397.5
87.5°	61.5	65.4	71.8	89.4	58.3	46.3	237.8	298.5	186.0	116.5
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°
2723.3	0°	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3
2731.3	2.5°	2727.3	2721.7	2706.5	2685.8	2666.6	2642.7	2632.3	2623.5	2615.5	2600.4
2752.8	5°	2744.1	2728.9	2688.2	2635.5	2575.6	2510.2	2446.3	2402.4	2364.9	2337.0
2777.6	7.5°	2769.6	2740.9	2666.6	2558.9	2421.6	2281.1	2154.2	2064.0	1996.2	1971.4
2812.7	10°	2795.9	2761.6	2632.3	2442.3	2205.3	1989.0	1820.6	1728.0	1673.7	1656.2
2854.2	12.5°	2827.1	2776.8	2578.8	2280.3	1963.5	1726.4	1579.5	1525.3	1497.3	1487.8
2905.3	15°	2872.6	2789.5	2498.2	2077.6	1732.8	1534.8	1439.9	1402.4	1388.0	1387.2
2958.0	17.5°	2906.9	2791.9	2372.9	1860.5	1555.6	1419.1	1340.9	1326.5	1336.1	1350.5
3009.8	20°	2945.2	2770.4	2208.5	1662.6	1431.1	1317.8	1285.0	1294.6	1317.8	1338.5
3078.5	22.5°	2972.3	2731.3	2009.7	1508.5	1323.3	1259.5	1257.9	1277.8	1290.6	1301.0
3159.1	25°	2996.3	2665.0	1799.0	1379.2	1234.7	1224.4	1241.9	1235.5	1226.8	1235.5
3239.7	27.5°	3013.8	2560.5	1610.7	1265.9	1172.5	1200.4	1190.0	1175.7	1174.9	1179.7
3334.7	30°	3008.2	2420.8	1455.8	1158.1	1128.6	1155.7	1131.0	1128.6	1126.2	1128.6
3477.6	32.5°	3008.2	2262.0	1336.9	1083.9	1100.7	1090.3	1087.9	1082.3	1072.7	1071.9
3671.5	35°	3025.0	2103.1	1234.7	1044.0	1077.5	1052.8	1054.4	1040.8	1020.8	1011.3
3928.5	37.5°	3059.3	1975.4	1133.4	1024.8	1036.8	1036.0	1029.6	1006.5	971.4	941.0
4249.4	40°	3142.3	1937.9	1063.9	1016.0	1017.6	1027.2	1010.5	965.8	885.9	836.5
4575.0	42.5°	3272.4	2001.0	1048.8	994.5	1004.9	1014.5	981.7	878.0	821.3	791.8
4916.6	45°	3437.6	2111.1	1081.5	963.4	974.5	991.3	893.9	844.4	818.9	819.7
5255.0	47.5°	3646.8	2226.8	1142.2	936.2	930.6	940.2	835.7	805.3	770.2	779.0
5579.9	50°	3888.6	2344.2	1199.6	899.5	882.0	850.8	798.2	769.4	724.7	704.0
5893.6	52.5°	4150.4	2457.5	1222.8	854.8	829.3	793.4	772.6	737.5	683.2	648.9
6189.7	55°	4398.6	2560.5	1197.2	801.3	776.6	748.7	745.5	723.9	665.7	617.8
6453.1	57.5°	4633.3	2646.7	1133.4	747.1	723.1	706.4	727.9	717.5	644.1	582.7
6702.1	60°	4832.0	2705.7	1040.8	692.0	675.2	666.5	699.2	696.0	613.8	545.1
6925.6	62.5°	4990.1	2728.9	938.6	639.3	635.3	619.4	659.3	659.3	575.5	508.4
7121.9	65°	5113.8	2706.5	834.9	587.4	595.4	571.5	610.6	605.8	534.8	475.7
7347.8	67.5°	5223.1	2633.1	719.9	536.4	554.7	524.4	559.5	548.3	490.1	443.0
7543.3	70°	5271.8	2462.3	589.0	485.3	507.6	478.1	508.4	487.7	439.8	407.9
7328.6	72.5°	4880.7	2046.5	463.7	431.8	451.0	427.0	453.4	429.4	385.5	371.1
6328.6	75°	4037.9	1535.6	356.8	373.5	387.9	369.5	387.1	369.5	329.6	340.0
4674.8	77.5°	2932.4	1036.8	273.0	312.1	318.5	308.9	324.1	304.1	268.2	265.8
2329.8	80°	1458.2	607.4	213.9	246.6	244.2	237.8	255.4	245.8	215.5	228.3
628.9	82.5°	422.2	260.2	155.6	173.2	168.4	170.0	182.8	187.6	280.9	278.6
195.5	85°	132.5	102.2	93.4	96.6	91.8	94.2	107.8	213.9	197.9	115.7
60.7	87.5°	34.3	35.1	23.1	24.7	25.5	30.3	34.3	130.1	62.3	40.7
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>
2723.3
2593.2
2313.8
1928.3
1629.0
1490.2
1390.4
1356.1
1345.7
1306.6
1241.1
1187.7
1137.4
1082.3
1020.8
951.4
842.8
791.8
823.7
801.3
709.6
648.1
617.8
579.5
542.7
506.0
472.5
439.8
401.5
359.2
310.5
253.8
225.9
284.9
125.3
43.1
0.0

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