

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: P941239

Luminaire Tested: **GALN-SB4C-935-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-935-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20637 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

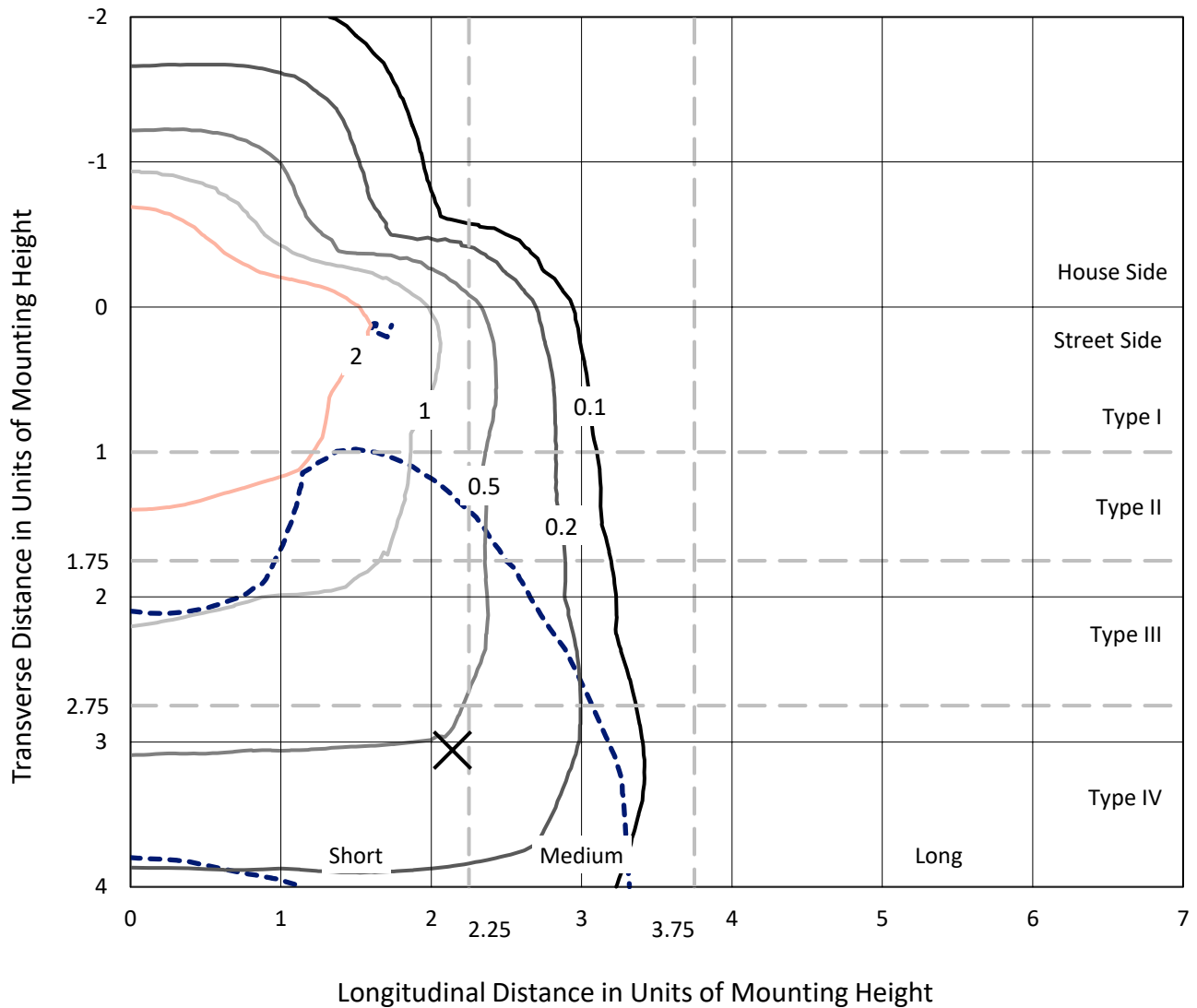
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

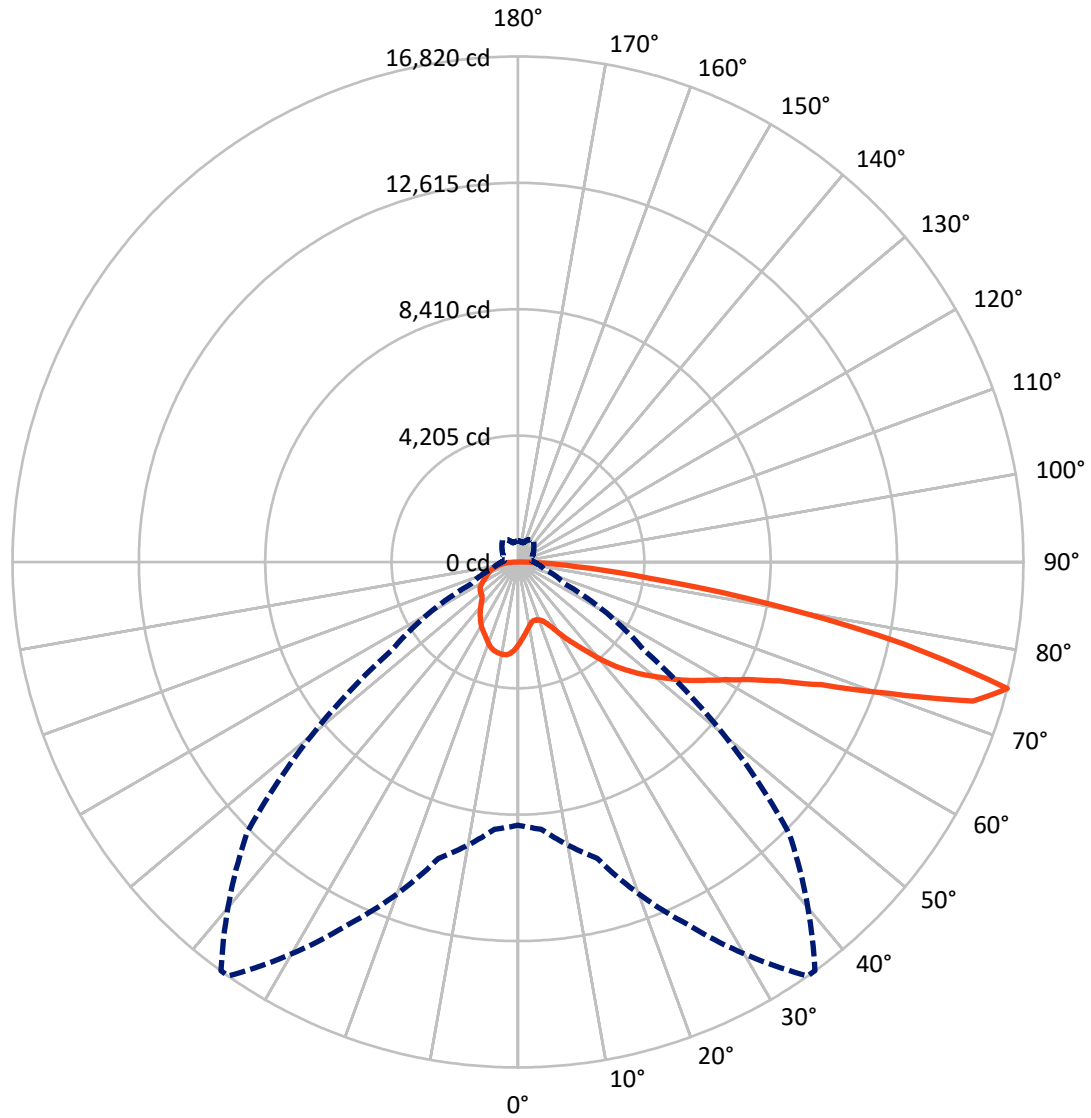
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4911.1	0.0	4911.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15725.9	0.0	15725.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	20637.0	0.0	20637.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	1.3
10°-20°	751.0	3.6
20°-30°	1261.2	6.1
30°-40°	1960.0	9.5
40°-50°	2909.2	14.1
50°-60°	4016.3	19.5
60°-70°	4872.7	23.6
70°-80°	4026.9	19.5
80°-90°	579.2	2.8
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°	20637.0	100.0
0°-180°	20637.0	100.0



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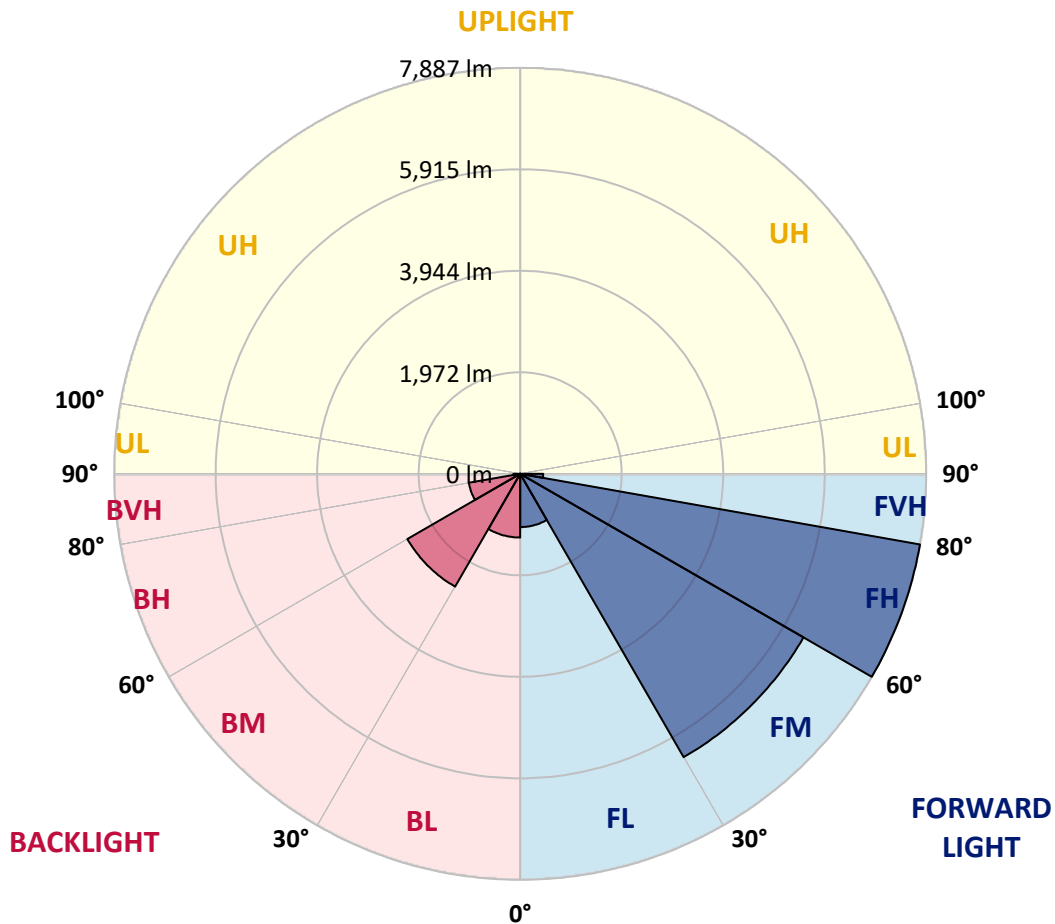
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.9	5.0			
FM (30°-60°)	6355.1	30.8			
FH (60°-80°)	7887.1	38.2			G4/12000
FVH (80°-90°)	448.8	2.2			G3/500
BL (0°-30°)	1237.7	6.0	B3/2500		
BM (30°-60°)	2530.5	12.3	B3/5000		
BH (60°-80°)	1012.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	130.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0
2.5°	2535.8	2551.4	2558.1	2554.8	2571.5	2569.3	2592.7	2621.7	2661.9	2700.9
5°	2340.6	2357.3	2371.8	2385.2	2417.6	2427.6	2464.4	2520.2	2593.8	2668.6
7.5°	2158.7	2173.2	2195.6	2220.1	2274.8	2284.8	2346.2	2433.2	2535.8	2645.2
10°	2010.4	2024.9	2048.3	2076.2	2144.2	2156.5	2234.6	2350.6	2484.5	2622.8
12.5°	1946.8	1951.2	1964.6	1992.5	2051.6	2059.4	2145.4	2278.1	2434.3	2606.1
15°	1943.4	1952.3	1953.5	1968.0	2017.1	2020.4	2099.6	2231.3	2403.1	2602.8
17.5°	1976.9	1983.6	1973.5	1982.5	2023.7	2029.3	2091.8	2208.9	2393.0	2617.3
20°	2066.1	2071.7	2041.6	2029.3	2059.4	2063.9	2125.3	2223.4	2403.1	2647.4
22.5°	2255.8	2259.1	2185.5	2135.3	2137.5	2139.8	2193.3	2282.6	2442.1	2702.0
25°	2551.4	2549.2	2432.1	2335.0	2279.2	2267.0	2302.7	2378.5	2507.9	2774.6
27.5°	2897.3	2880.5	2763.4	2618.4	2496.8	2478.9	2471.1	2503.5	2601.6	2870.5
30°	3287.8	3272.1	3146.1	2956.4	2788.0	2758.9	2685.3	2668.6	2741.1	3001.0
32.5°	3716.2	3706.1	3555.5	3325.7	3100.3	3066.9	2943.0	2898.4	2955.3	3198.5
35°	4075.4	4066.5	3941.5	3705.0	3429.4	3388.2	3262.1	3211.9	3240.9	3451.7
37.5°	4400.0	4395.6	4288.5	4102.2	3817.7	3767.5	3625.8	3609.1	3603.5	3785.3
40°	4701.3	4690.1	4578.5	4480.4	4269.5	4223.8	4098.8	4084.3	4041.9	4195.9
42.5°	5034.8	5005.8	4844.1	4798.3	4741.4	4703.5	4628.7	4631.0	4537.3	4658.9
45°	5307.0	5290.3	5124.1	5097.3	5158.7	5143.0	5207.7	5224.5	5042.6	5144.2
47.5°	5599.3	5583.7	5443.1	5424.2	5590.4	5594.9	5823.6	5829.1	5535.7	5648.4
50°	5959.7	5937.4	5797.9	5821.3	6007.6	6024.4	6442.7	6404.8	5989.8	6160.5
52.5°	6197.3	6210.7	6180.6	6218.5	6472.9	6488.5	7051.9	6954.8	6439.4	6665.9
55°	6372.5	6399.2	6492.9	6580.0	6963.7	6979.4	7626.4	7478.0	6812.0	7134.4
57.5°	6597.8	6559.9	6735.0	6904.6	7430.1	7471.4	8185.4	7982.3	7142.2	7538.3
60°	6921.3	6894.6	7030.7	7281.7	7952.2	8018.0	8776.6	8436.4	7384.3	7858.5
62.5°	7577.3	7510.4	7531.6	7753.6	8610.4	8697.4	9443.8	8832.4	7504.8	7983.4
65°	8558.0	8443.1	8336.0	8489.9	9537.5	9623.4	10196.8	9143.7	7460.2	7741.3
67.5°	9793.0	9679.2	9547.5	9692.6	10903.0	10971.1	11126.1	9318.8	7108.8	6808.7
70°	10811.5	10769.1	10926.4	11523.3	13084.1	13086.3	12317.6	9173.8	6146.0	4827.3
72.5°	10676.5	10650.9	11479.8	13325.0	15833.0	15773.8	13445.5	8076.0	4140.1	2177.7
75°	8758.8	8925.0	10209.1	13292.7	16820.3	16812.5	12755.0	5134.1	1712.5	902.5
77.5°	4696.8	4960.1	6627.9	9814.2	13130.9	13328.4	8967.4	1796.2	735.2	577.9
80°	1531.8	1761.6	2641.8	4996.9	8532.3	8495.5	3843.3	705.1	503.1	409.4
82.5°	650.4	677.2	1180.3	2359.6	4378.8	4310.8	1223.8	405.0	353.7	280.0
85°	254.4	284.5	521.0	1091.1	1896.6	1855.3	441.8	200.8	226.5	183.0
87.5°	83.7	101.5	186.3	373.7	590.2	569.0	108.2	69.2	98.2	83.7
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°
2750.0	0°	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0
2757.8	2.5°	2773.4	2791.3	2812.5	2843.7	2870.5	2892.8	2916.2	2930.8	2936.3	2953.1
2762.3	5°	2793.5	2832.6	2885.0	2936.3	2986.5	3016.7	3043.4	3056.8	3069.1	3078.0
2774.6	7.5°	2827.0	2877.2	2959.8	3026.7	3069.1	3093.6	3111.5	3107.0	3111.5	3113.7
2788.0	10°	2856.0	2926.3	3024.5	3088.1	3120.4	3121.5	3117.1	3101.4	3093.6	3094.7
2808.0	12.5°	2890.6	2968.7	3074.7	3128.2	3137.1	3112.6	3093.6	3066.9	3056.8	3052.4
2838.2	15°	2937.4	3026.7	3129.3	3149.4	3127.1	3095.9	3063.5	3020.0	2997.7	2979.8
2889.5	17.5°	2994.3	3092.5	3171.7	3157.2	3109.3	3057.9	3005.5	2939.7	2893.9	2875.0
2959.8	20°	3073.6	3161.7	3204.1	3140.5	3068.0	2989.9	2900.6	2820.3	2777.9	2758.9
3049.0	22.5°	3169.5	3254.3	3235.3	3111.5	3008.8	2883.9	2772.3	2713.2	2692.0	2678.6
3163.9	25°	3284.4	3356.9	3257.6	3069.1	2911.8	2743.3	2657.4	2638.5	2628.4	2618.4
3304.5	27.5°	3433.9	3472.9	3274.4	3006.6	2760.1	2593.8	2562.6	2565.9	2562.6	2545.9
3499.7	30°	3631.4	3623.6	3290.0	2905.1	2586.0	2458.8	2461.1	2475.6	2477.8	2466.7
3771.9	32.5°	3891.3	3812.1	3297.8	2773.4	2419.8	2340.6	2342.8	2358.4	2369.6	2350.6
4127.8	35°	4205.9	4031.9	3285.5	2608.3	2291.5	2227.9	2211.2	2215.6	2219.0	2201.1
4559.6	37.5°	4573.0	4278.4	3230.9	2425.4	2185.5	2117.5	2081.8	2051.6	2033.8	2017.1
5048.2	40°	4975.7	4547.3	3130.4	2246.9	2067.3	2000.3	1946.8	1889.9	1829.6	1807.3
5565.9	42.5°	5397.4	4824.0	3008.8	2076.2	1931.1	1876.5	1819.6	1737.0	1646.7	1600.9
6103.6	45°	5834.7	5107.3	2889.5	1907.7	1791.7	1768.3	1702.4	1603.2	1505.0	1447.0
6642.4	47.5°	6263.1	5375.1	2714.3	1738.1	1661.2	1686.8	1635.5	1544.0	1434.7	1343.2
7176.8	50°	6672.6	5626.1	2427.6	1566.3	1555.2	1662.3	1613.2	1481.6	1356.6	1239.5
7701.2	52.5°	7078.7	5829.1	2060.6	1410.2	1498.3	1655.6	1584.2	1439.2	1286.3	1163.6
8194.3	55°	7423.4	5934.0	1706.9	1276.3	1415.7	1598.7	1549.6	1389.0	1187.0	1056.5
8532.3	57.5°	7619.7	5849.2	1412.4	1144.6	1301.9	1505.0	1490.5	1281.9	1068.8	968.4
8598.1	60°	7534.9	5505.6	1171.4	1029.7	1193.7	1403.5	1387.8	1175.9	978.4	883.6
8245.6	62.5°	7067.5	4850.7	980.6	929.3	1095.5	1299.7	1285.2	1094.4	909.2	817.8
7309.6	65°	6125.9	3946.0	832.3	845.6	996.3	1174.8	1196.0	1026.4	854.6	765.3
5655.1	67.5°	4672.2	2858.2	716.2	773.1	899.2	1052.0	1113.4	977.3	808.8	724.0
3272.1	70°	2663.0	1623.2	618.1	702.8	813.3	938.2	1049.8	938.2	759.7	689.5
1226.1	72.5°	1009.6	745.2	534.4	632.6	730.7	842.3	979.5	876.9	702.8	650.4
633.7	75°	538.8	454.1	449.6	550.0	635.9	748.6	891.4	816.6	660.5	687.2
438.4	77.5°	367.0	321.3	376.0	470.8	532.2	644.8	797.7	725.2	572.3	570.1
303.5	80°	254.4	227.6	305.7	379.3	411.7	542.2	696.2	622.5	466.3	435.1
187.4	82.5°	152.8	148.4	228.7	283.4	291.2	418.4	576.8	522.1	381.5	332.5
111.6	85°	83.7	88.1	146.1	166.2	169.6	292.3	451.8	403.9	293.4	246.6
40.2	87.5°	23.4	30.1	53.6	65.8	81.4	151.7	268.9	239.9	147.3	102.6
0.0	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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<u>180°</u>
2750.0
2951.9
3080.2
3117.1
3097.0
3050.1
2985.4
2876.1
2756.7
2680.9
2618.4
2549.2
2472.2
2359.6
2213.4
2028.2
1817.4
1606.5
1442.5
1333.2
1229.4
1150.2
1045.3
955.0
870.2
803.3
750.8
710.7
680.5
641.5
709.5
525.5
416.1
334.7
248.8
102.6
0.0

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