

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: P939939

Luminaire Tested: **GALN-SB2D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939939
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-SB2D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20114 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

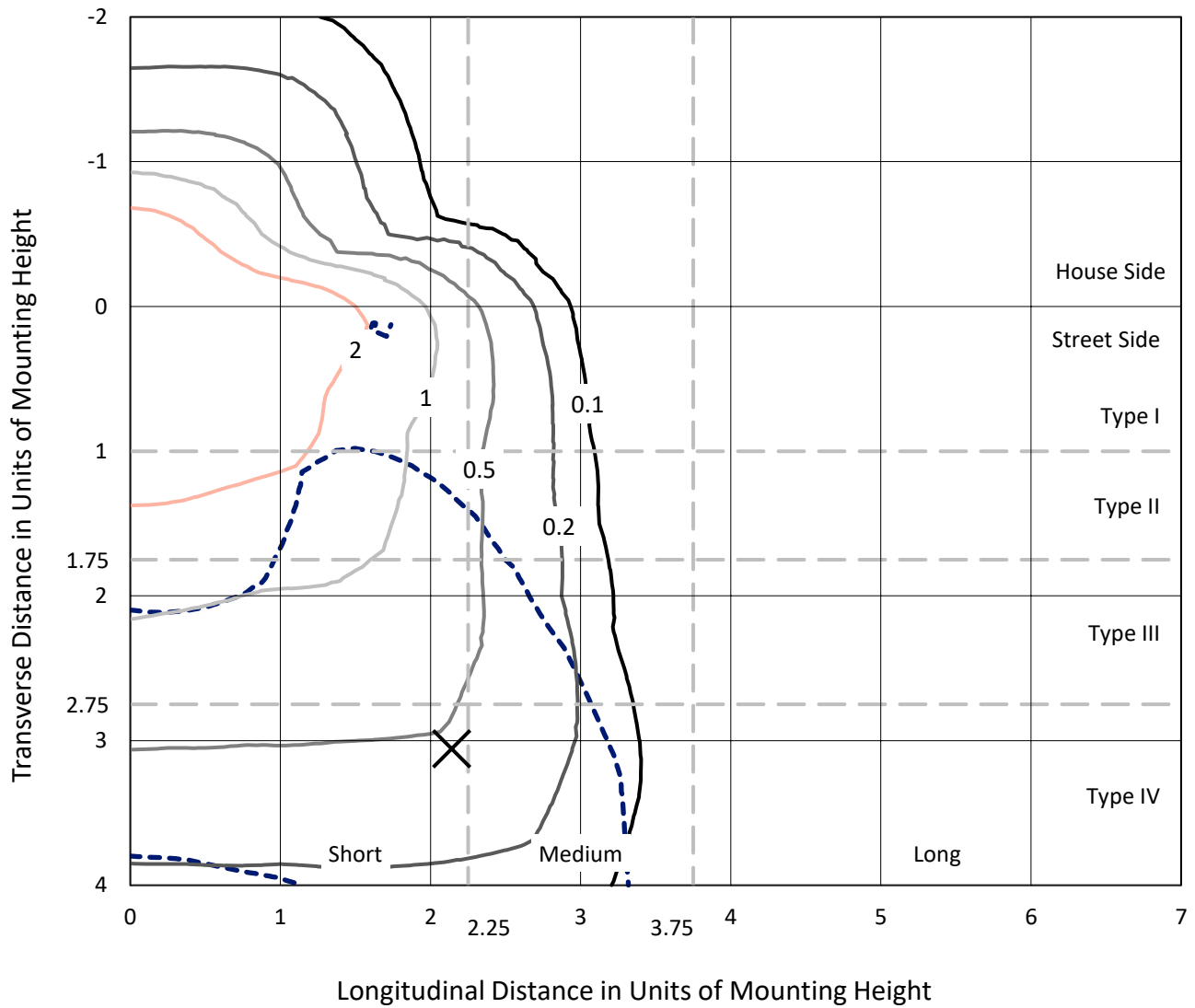
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

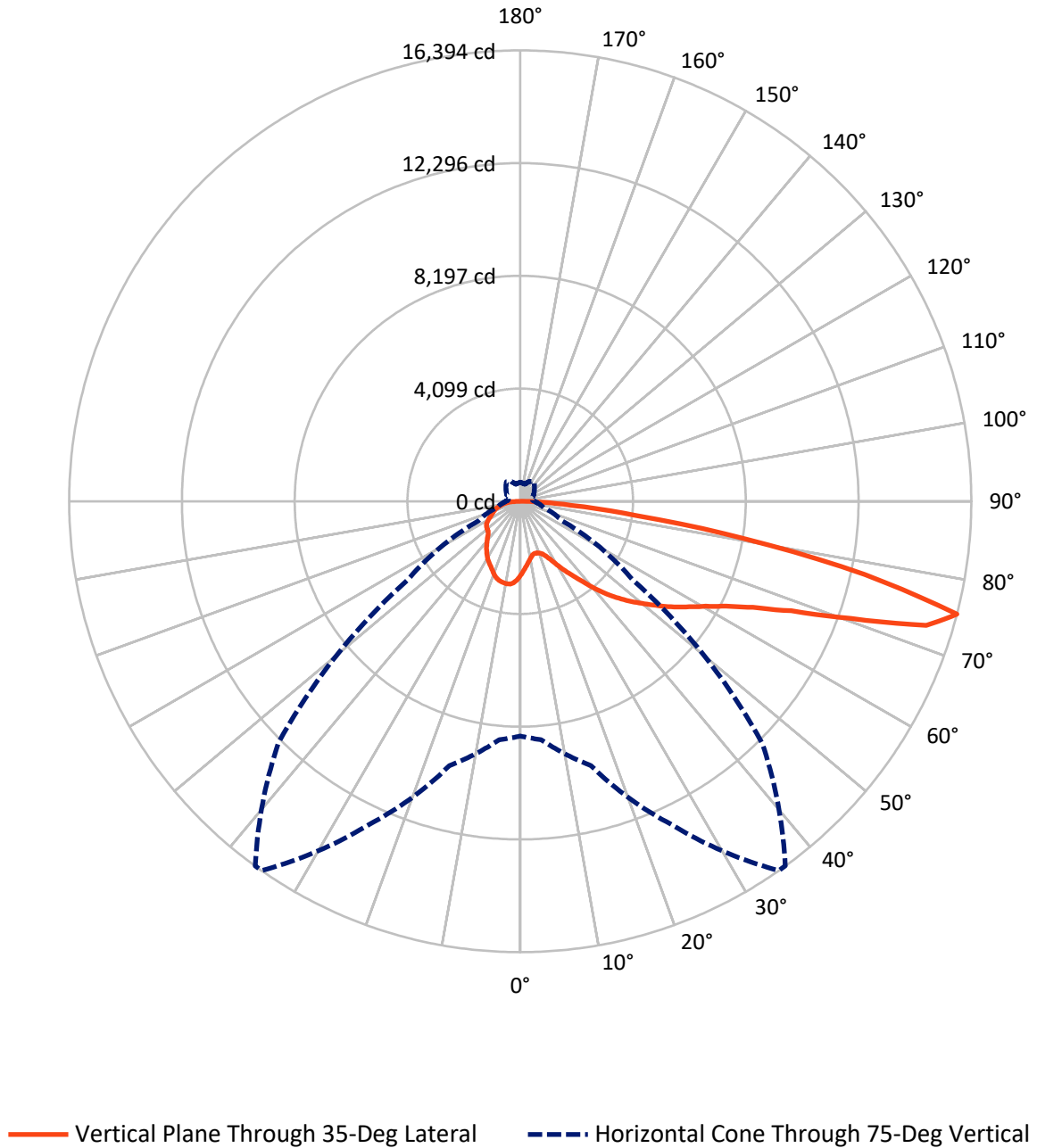
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	4786.6	0.0	4786.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15327.4	0.0	15327.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	20114.0	0.0	20114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	1.3
10°-20°	732.0	3.6
20°-30°	1229.2	6.1
30°-40°	1910.4	9.5
40°-50°	2835.5	14.1
50°-60°	3914.5	19.5
60°-70°	4749.2	23.6
70°-80°	3924.9	19.5
80°-90°	564.5	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°	20114.0	100.0
0°-180°	20114.0	100.0

Coefficient of Utilization



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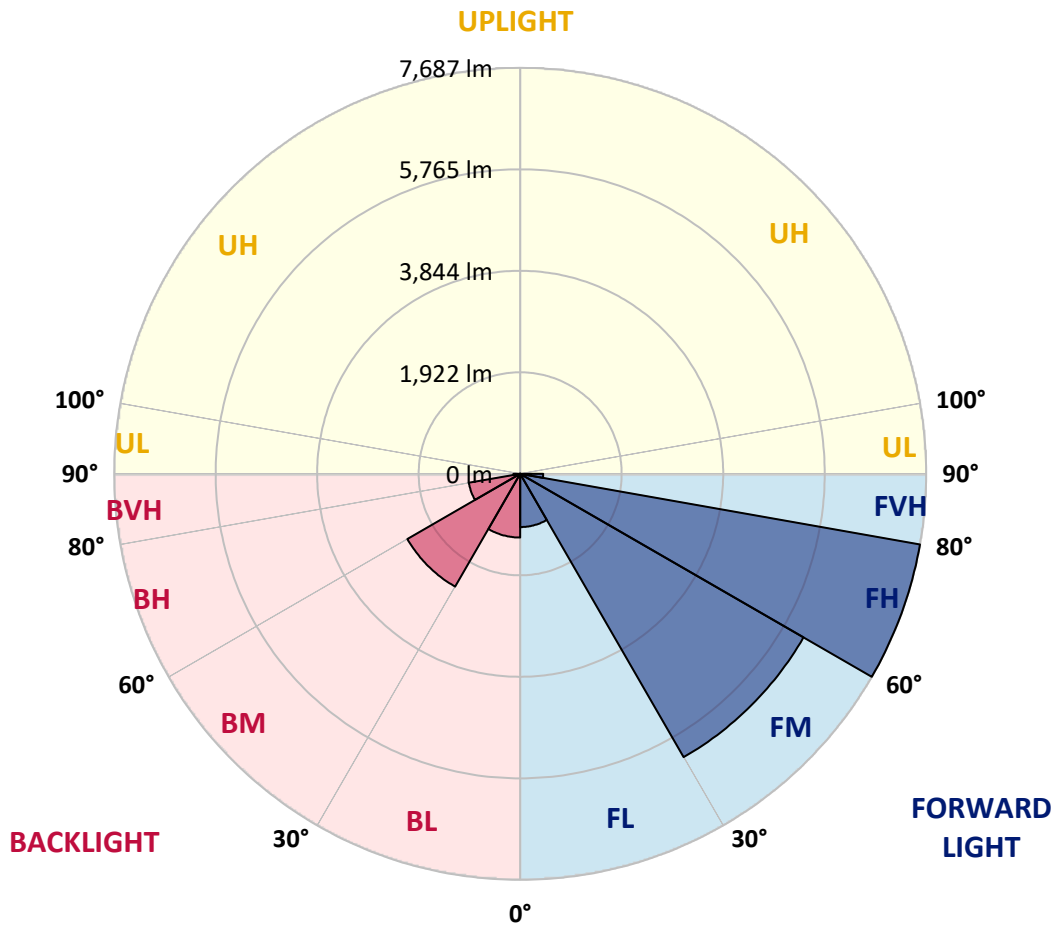
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.7	5.0			
FM (30°-60°)	6194.0	30.8			
FH (60°-80°)	7687.3	38.2			G4/12000
FVH (80°-90°)	437.4	2.2			G3/500
BL (0°-30°)	1206.3	6.0	B3/2500		
BM (30°-60°)	2466.4	12.3	B2/2500		
BH (60°-80°)	986.9	4.9	B2/1000		G2/1000
BVH (80°-90°)	127.1	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°	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3
2.5°	2471.6	2486.8	2493.3	2490.0	2506.3	2504.2	2527.0	2555.3	2594.4	2632.5
5°	2281.3	2297.6	2311.7	2324.8	2356.3	2366.1	2402.0	2456.3	2528.1	2600.9
7.5°	2104.0	2118.2	2139.9	2163.8	2217.1	2226.9	2286.7	2371.5	2471.6	2578.1
10°	1959.4	1973.5	1996.4	2023.6	2089.9	2101.9	2178.0	2291.1	2421.5	2556.4
12.5°	1897.4	1901.8	1914.8	1942.0	1999.6	2007.3	2091.0	2220.4	2372.6	2540.1
15°	1894.2	1902.9	1904.0	1918.1	1965.9	1969.2	2046.4	2174.7	2342.2	2536.8
17.5°	1926.8	1933.3	1923.5	1932.2	1972.5	1977.9	2038.8	2153.0	2332.4	2550.9
20°	2013.8	2019.2	1989.9	1977.9	2007.3	2011.6	2071.4	2167.1	2342.2	2580.3
22.5°	2198.6	2201.9	2130.1	2081.2	2083.4	2085.5	2137.7	2224.7	2380.2	2633.6
25°	2486.8	2484.6	2370.4	2275.8	2221.5	2209.5	2244.3	2318.2	2444.4	2704.2
27.5°	2823.9	2807.5	2693.4	2552.0	2433.5	2416.1	2408.5	2440.0	2535.7	2797.8
30°	3204.4	3189.2	3066.3	2881.5	2717.3	2689.0	2617.3	2600.9	2671.6	2925.0
32.5°	3622.0	3612.2	3465.4	3241.4	3021.8	2989.1	2868.4	2824.9	2880.4	3117.4
35°	3972.1	3963.4	3841.6	3611.1	3342.5	3302.3	3179.4	3130.5	3158.8	3364.3
37.5°	4288.5	4284.2	4179.8	3998.2	3720.9	3672.0	3533.9	3517.6	3512.2	3689.4
40°	4582.1	4571.2	4462.5	4366.8	4161.3	4116.7	3994.9	3980.8	3939.5	4089.5
42.5°	4907.2	4879.0	4721.3	4676.7	4621.3	4584.3	4511.4	4513.6	4422.3	4540.8
45°	5172.5	5156.2	4994.2	4968.1	5027.9	5012.7	5075.8	5092.1	4914.8	5013.8
47.5°	5457.4	5442.2	5305.2	5286.7	5448.7	5453.1	5676.0	5681.4	5395.4	5505.3
50°	5808.6	5786.9	5651.0	5673.8	5855.4	5871.7	6279.5	6242.5	5838.0	6004.4
52.5°	6040.2	6053.3	6023.9	6060.9	6308.8	6324.0	6873.2	6778.6	6276.2	6496.9
55°	6211.0	6237.1	6328.4	6413.2	6787.3	6802.5	7433.1	7288.5	6639.4	6953.6
57.5°	6430.6	6393.6	6564.4	6729.6	7241.8	7282.0	7977.9	7780.0	6961.2	7347.2
60°	6745.9	6719.8	6852.5	7097.2	7750.7	7814.8	8554.2	8222.6	7197.2	7659.3
62.5°	7385.3	7320.1	7340.7	7557.1	8392.2	8477.0	9204.4	8608.6	7314.6	7781.1
65°	8341.1	8229.1	8124.7	8274.8	9295.8	9379.5	9938.4	8911.9	7271.1	7545.1
67.5°	9544.8	9433.9	9305.6	9446.9	10626.7	10693.0	10844.2	9082.7	6928.6	6636.1
70°	10537.5	10496.2	10649.5	11231.3	12752.5	12754.7	12005.5	8941.3	5990.2	4705.0
72.5°	10406.0	10381.0	11188.9	12987.4	15431.7	15374.1	13104.8	7871.4	4035.2	2122.5
75°	8536.8	8698.8	9950.4	12955.8	16394.0	16386.4	12431.7	5004.0	1669.1	879.7
77.5°	4577.8	4834.4	6460.0	9565.4	12798.2	12990.6	8740.1	1750.6	716.6	563.2
80°	1492.9	1716.9	2574.9	4870.3	8316.1	8280.2	3745.9	687.2	490.4	399.1
82.5°	633.9	660.0	1150.4	2299.8	4267.9	4201.5	1192.8	394.7	344.7	272.9
85°	247.9	277.3	507.8	1063.4	1848.5	1808.3	430.6	195.7	220.7	178.3
87.5°	81.6	98.9	181.6	364.3	575.2	554.6	105.5	67.4	95.7	81.6
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°
2680.3	0°	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3
2687.9	2.5°	2703.2	2720.6	2741.2	2771.7	2797.8	2819.5	2842.3	2856.5	2861.9	2878.2
2692.3	5°	2722.7	2760.8	2811.9	2861.9	2910.8	2940.2	2966.3	2979.3	2991.3	3000.0
2704.2	7.5°	2755.4	2804.3	2884.7	2950.0	2991.3	3015.2	3032.6	3028.3	3032.6	3034.8
2717.3	10°	2783.6	2852.1	2947.8	3009.8	3041.3	3042.4	3038.1	3022.8	3015.2	3016.3
2736.9	12.5°	2817.3	2893.4	2996.7	3048.9	3057.6	3033.7	3015.2	2989.1	2979.3	2975.0
2766.2	15°	2863.0	2950.0	3050.0	3069.6	3047.9	3017.4	2985.9	2943.5	2921.7	2904.3
2816.2	17.5°	2918.5	3014.1	3091.3	3077.2	3030.5	2980.4	2929.3	2865.2	2820.6	2802.1
2884.7	20°	2995.7	3081.6	3122.9	3060.9	2990.2	2914.1	2827.1	2748.8	2707.5	2689.0
2971.7	22.5°	3089.2	3171.8	3153.3	3032.6	2932.6	2810.8	2702.1	2644.4	2623.8	2610.7
3083.7	25°	3201.2	3271.8	3175.1	2991.3	2838.0	2673.8	2590.1	2571.6	2561.8	2552.0
3220.7	27.5°	3346.9	3384.9	3191.4	2930.4	2690.1	2528.1	2497.7	2500.9	2497.7	2481.3
3411.0	30°	3539.3	3531.7	3206.6	2831.5	2520.5	2396.5	2398.7	2412.8	2415.0	2404.1
3676.3	32.5°	3792.7	3715.5	3214.2	2703.2	2358.5	2281.3	2283.4	2298.7	2309.5	2291.1
4023.2	35°	4099.3	3929.7	3202.3	2542.2	2233.4	2171.4	2155.1	2159.5	2162.7	2145.3
4444.0	37.5°	4457.1	4170.0	3149.0	2363.9	2130.1	2063.8	2029.0	1999.6	1982.2	1965.9
4920.3	40°	4849.6	4432.1	3051.1	2189.9	2014.9	1949.6	1897.4	1842.0	1783.3	1761.5
5424.8	42.5°	5260.6	4701.7	2932.6	2023.6	1882.2	1828.9	1773.5	1693.0	1604.9	1560.4
5948.9	45°	5686.9	4977.9	2816.2	1859.4	1746.3	1723.5	1659.3	1562.5	1466.8	1410.3
6474.1	47.5°	6104.4	5238.9	2645.5	1694.1	1619.1	1644.1	1594.1	1504.9	1398.3	1309.2
6994.9	50°	6503.5	5483.5	2366.1	1526.6	1515.8	1620.2	1572.3	1444.0	1322.2	1208.0
7506.0	52.5°	6899.3	5681.4	2008.3	1374.4	1460.3	1613.6	1544.0	1402.7	1253.7	1134.1
7986.6	55°	7235.3	5783.6	1663.7	1243.9	1379.9	1558.2	1510.3	1353.8	1156.9	1029.7
8316.1	57.5°	7426.6	5701.0	1376.6	1115.6	1268.9	1466.8	1452.7	1249.4	1041.7	943.8
8380.2	60°	7344.0	5366.1	1141.7	1003.6	1163.5	1367.9	1352.7	1146.1	953.6	861.2
8036.6	62.5°	6888.4	4727.8	955.8	905.8	1067.8	1266.8	1252.6	1066.7	886.2	797.0
7124.3	65°	5970.7	3846.0	811.2	824.2	971.0	1145.0	1165.6	1000.4	832.9	745.9
5511.8	67.5°	4553.8	2785.8	698.1	753.5	876.4	1025.4	1085.2	952.5	788.3	705.7
3189.2	70°	2595.5	1582.1	602.4	685.0	792.7	914.5	1023.2	914.5	740.5	672.0
1195.0	72.5°	984.1	726.4	520.8	616.5	712.2	821.0	954.7	854.7	685.0	633.9
617.6	75°	525.2	442.6	438.2	536.1	619.8	729.6	868.8	795.9	643.7	669.8
427.3	77.5°	357.7	313.2	366.4	458.9	518.7	628.5	777.5	706.8	557.8	555.6
295.8	80°	247.9	221.8	297.9	369.7	401.2	528.5	678.5	606.7	454.5	424.1
182.7	82.5°	149.0	144.6	222.9	276.2	283.8	407.8	562.2	508.9	371.9	324.0
108.7	85°	81.6	85.9	142.4	162.0	165.3	284.9	440.4	393.6	286.0	240.3
39.1	87.5°	22.8	29.4	52.2	64.2	79.4	147.9	262.1	233.8	143.5	100.0
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>
2680.3
2877.1
3002.2
3038.1
3018.5
2972.8
2909.8
2803.2
2686.9
2612.9
2552.0
2484.6
2409.6
2299.8
2157.3
1976.8
1771.3
1565.8
1405.9
1299.4
1198.3
1121.1
1018.9
930.8
848.1
782.9
731.8
692.6
663.3
625.2
691.6
512.1
405.6
326.2
242.5
100.0
0.0

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