

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: P940749

Luminaire Tested: **GALN-SB3D-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940749
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-SB3D-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20993 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

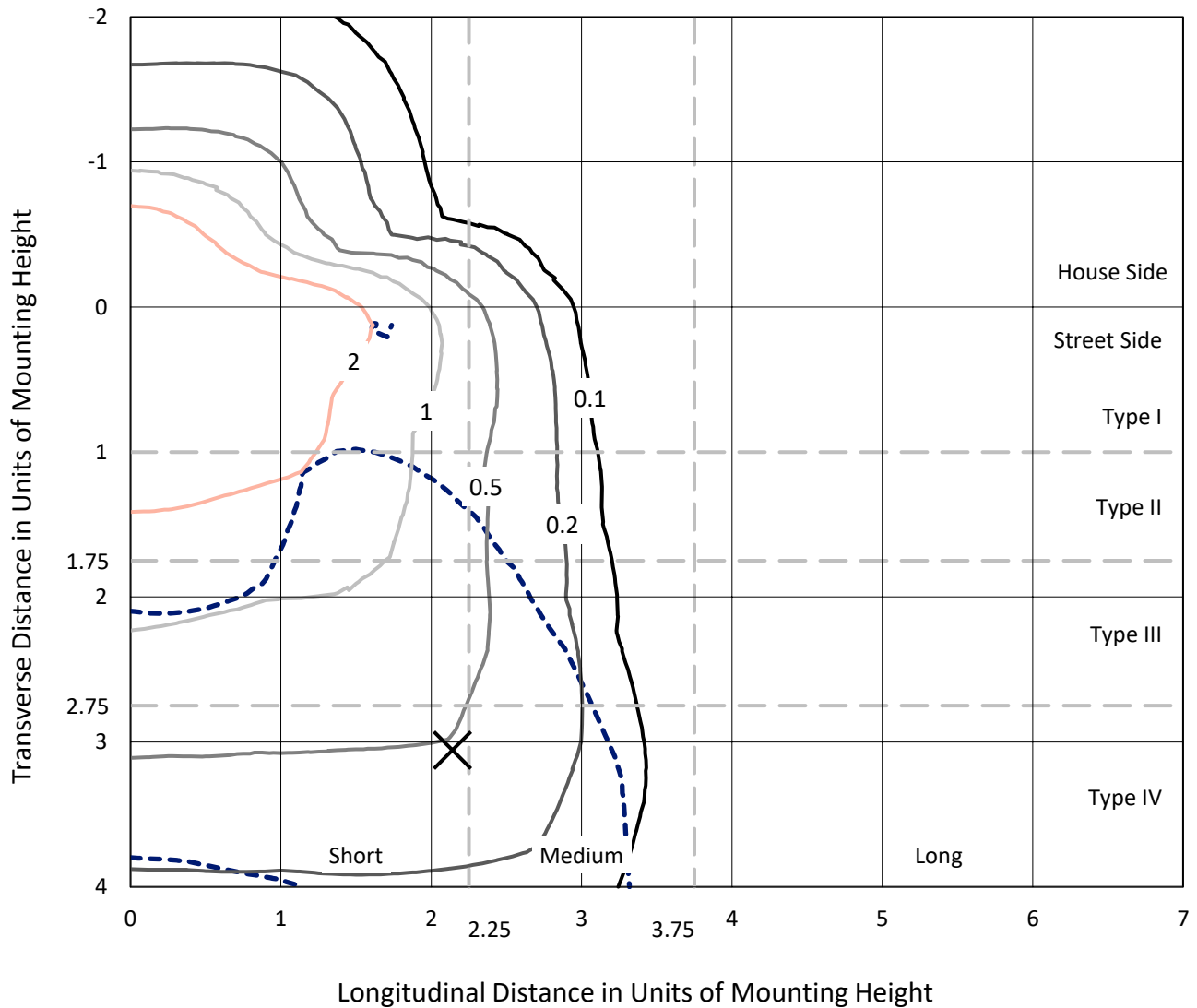
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

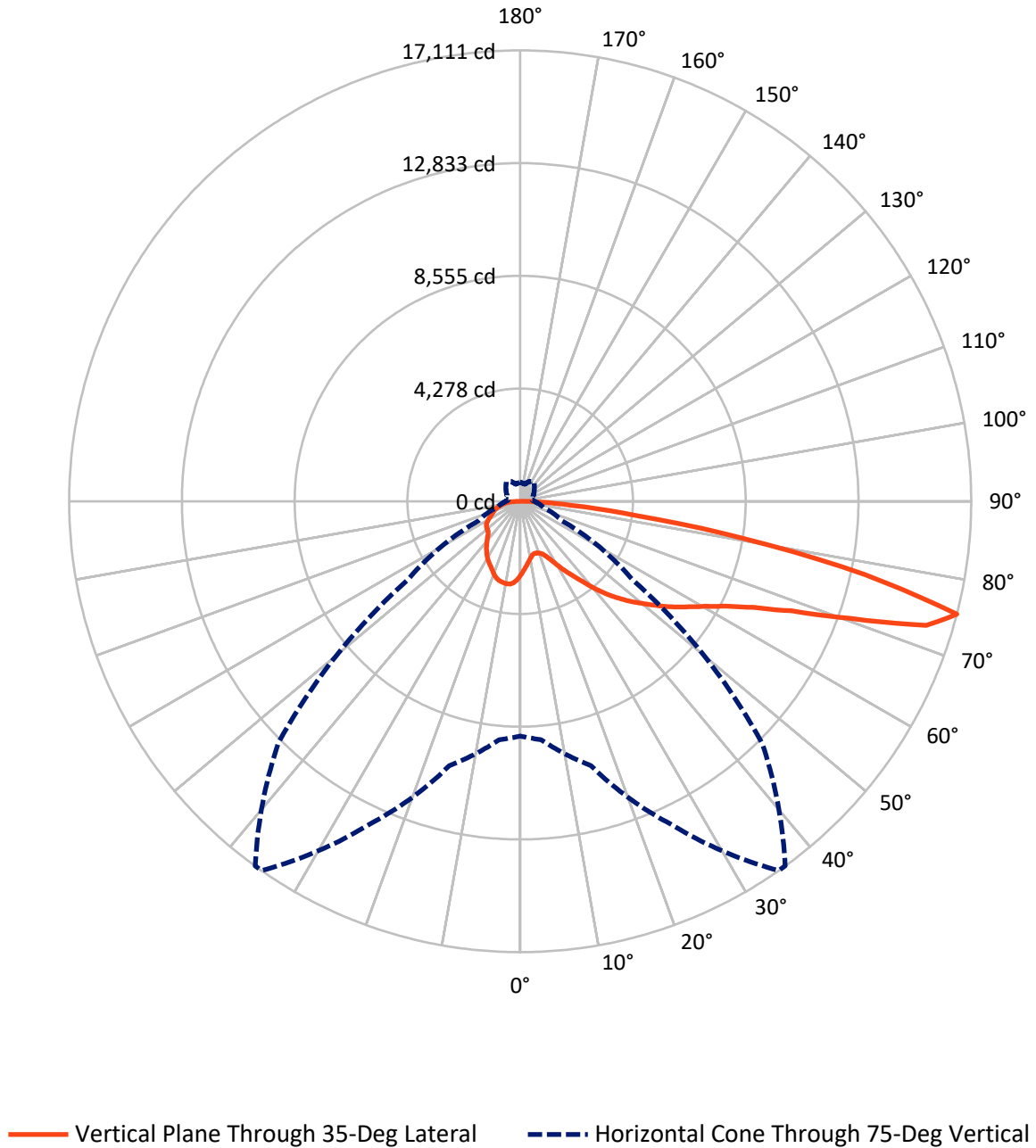
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	4995.8	0.0	4995.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15997.2	0.0	15997.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	20993.0	0.0	20993.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.9	1.3
10°-20°	764.0	3.6
20°-30°	1282.9	6.1
30°-40°	1993.8	9.5
40°-50°	2959.4	14.1
50°-60°	4085.6	19.5
60°-70°	4956.8	23.6
70°-80°	4096.4	19.5
80°-90°	589.2	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°	20993.0	100.0
0°-180°	20993.0	100.0



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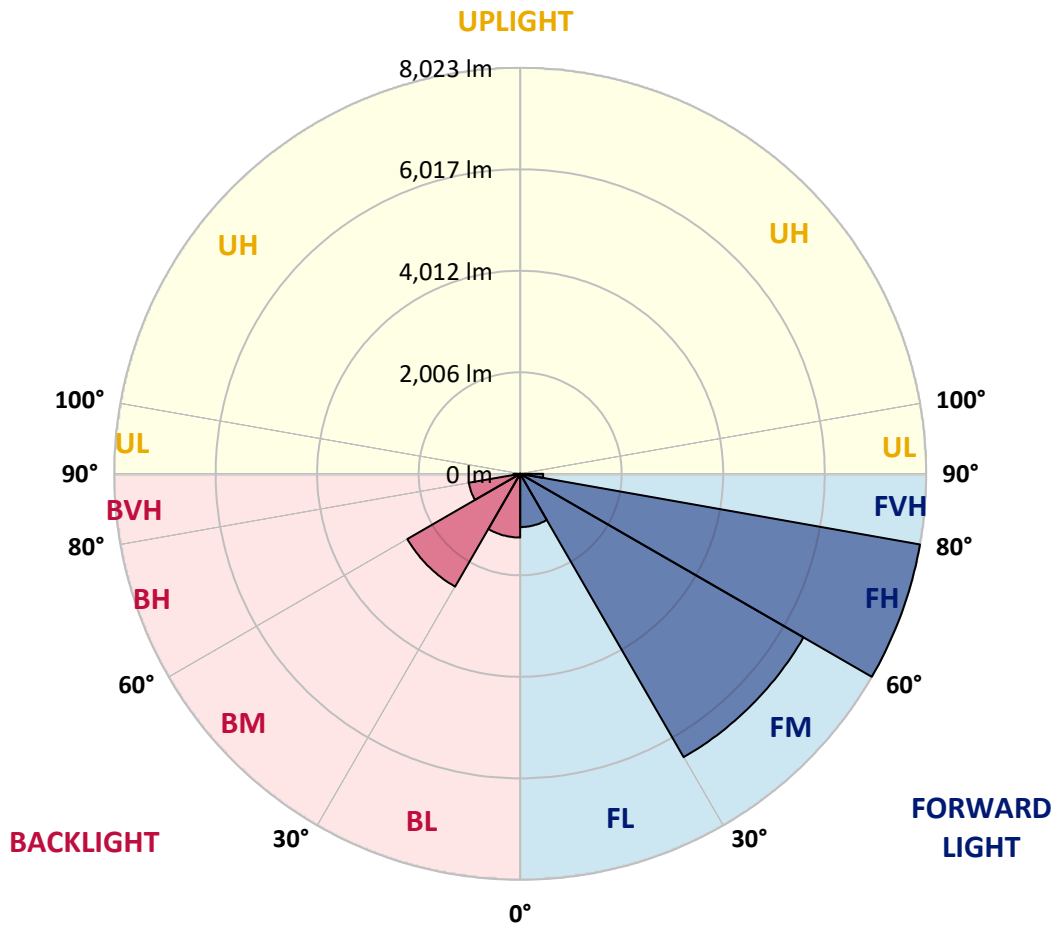
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.8	5.0			
FM (30°-60°)	6464.7	30.8			
FH (60°-80°)	8023.2	38.2			G4/12000
FVH (80°-90°)	456.5	2.2			G3/500
BL (0°-30°)	1259.0	6.0	B3/2500		
BM (30°-60°)	2574.1	12.3	B3/5000		
BH (60°-80°)	1030.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	132.7	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°	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5
2.5°	2579.6	2595.5	2602.3	2598.9	2615.9	2613.6	2637.4	2666.9	2707.8	2747.5
5°	2381.0	2398.0	2412.7	2426.4	2459.3	2469.5	2506.9	2563.7	2638.6	2714.6
7.5°	2196.0	2210.7	2233.4	2258.4	2314.0	2324.2	2386.6	2475.2	2579.6	2690.8
10°	2045.0	2059.8	2083.6	2112.0	2181.2	2193.7	2273.1	2391.2	2527.4	2668.1
12.5°	1980.4	1984.9	1998.5	2026.9	2087.0	2095.0	2182.4	2317.4	2476.3	2651.1
15°	1976.9	1986.0	1987.2	2001.9	2051.8	2055.3	2135.8	2269.7	2444.5	2647.7
17.5°	2011.0	2017.8	2007.6	2016.7	2058.7	2064.3	2127.9	2247.0	2434.3	2662.4
20°	2101.8	2107.5	2076.8	2064.3	2095.0	2099.5	2161.9	2261.8	2444.5	2693.1
22.5°	2294.7	2298.1	2223.2	2172.1	2174.4	2176.7	2231.2	2321.9	2484.2	2748.7
25°	2595.5	2593.2	2474.0	2375.3	2318.5	2306.1	2342.4	2419.5	2551.2	2822.4
27.5°	2947.3	2930.2	2811.1	2663.5	2539.8	2521.7	2513.7	2546.7	2646.5	2920.0
30°	3344.5	3328.6	3200.3	3007.4	2836.0	2806.5	2731.6	2714.6	2788.4	3052.8
32.5°	3780.3	3770.0	3616.8	3383.1	3153.8	3119.8	2993.8	2948.4	3006.3	3253.7
35°	4145.7	4136.6	4009.5	3768.9	3488.6	3446.6	3318.4	3267.3	3296.8	3511.3
37.5°	4475.9	4471.4	4362.4	4172.9	3883.5	3832.5	3688.3	3671.3	3665.6	3850.6
40°	4782.4	4771.0	4657.5	4557.6	4343.2	4296.6	4169.5	4154.8	4111.6	4268.3
42.5°	5121.7	5092.2	4927.6	4881.1	4823.2	4784.6	4708.6	4710.9	4615.5	4739.2
45°	5398.6	5381.6	5212.5	5185.2	5247.6	5231.8	5297.6	5314.6	5129.6	5232.9
47.5°	5695.9	5680.0	5537.0	5517.7	5686.8	5691.4	5924.0	5929.7	5631.2	5745.9
50°	6062.5	6039.8	5897.9	5921.8	6111.3	6128.3	6553.9	6515.3	6093.1	6266.8
52.5°	6304.2	6317.8	6287.2	6325.8	6584.5	6600.4	7173.5	7074.8	6550.5	6780.9
55°	6482.4	6509.6	6605.0	6693.5	7083.9	7099.8	7758.0	7607.0	6929.5	7257.5
57.5°	6711.6	6673.0	6851.2	7023.7	7558.2	7600.2	8326.6	8120.0	7265.4	7668.3
60°	7040.7	7013.5	7152.0	7407.3	8089.4	8156.3	8928.0	8581.9	7511.7	7994.0
62.5°	7708.1	7640.0	7661.5	7887.4	8758.9	8847.5	9606.7	8984.8	7634.3	8121.1
65°	8705.6	8588.7	8479.8	8636.4	9702.0	9789.4	10372.7	9301.4	7588.9	7874.9
67.5°	9961.9	9846.1	9712.2	9859.8	11091.1	11160.3	11318.1	9479.6	7231.4	6926.1
70°	10998.0	10954.9	11114.9	11722.1	13309.8	13312.0	12530.1	9332.1	6252.0	4910.6
72.5°	10860.7	10834.6	11677.8	13554.9	16106.1	16046.0	13677.5	8215.3	4211.5	2215.3
75°	8909.9	9079.0	10385.2	13522.0	17110.5	17102.5	12975.0	5222.7	1742.0	918.1
77.5°	4777.8	5045.6	6742.3	9983.5	13357.4	13558.3	9122.1	1827.1	747.9	587.9
80°	1558.2	1792.0	2687.4	5083.1	8679.5	8642.0	3909.6	717.2	511.8	416.5
82.5°	661.6	688.9	1200.7	2400.3	4454.4	4385.1	1245.0	412.0	359.8	284.9
85°	258.8	289.4	530.0	1109.9	1929.3	1887.3	449.4	204.3	230.4	186.1
87.5°	85.1	103.3	189.5	380.2	600.3	578.8	110.1	70.4	99.9	85.1
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°
2797.5	0°	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5
2805.4	2.5°	2821.3	2839.4	2861.0	2892.8	2920.0	2942.7	2966.6	2981.3	2987.0	3004.0
2809.9	5°	2841.7	2881.4	2934.8	2987.0	3038.1	3068.7	3095.9	3109.5	3122.0	3131.1
2822.4	7.5°	2875.8	2926.8	3010.8	3078.9	3122.0	3147.0	3165.2	3160.6	3165.2	3167.4
2836.0	10°	2905.3	2976.8	3076.6	3141.3	3174.2	3175.4	3170.8	3154.9	3147.0	3148.1
2856.5	12.5°	2940.5	3019.9	3127.7	3182.2	3191.3	3166.3	3147.0	3119.8	3109.5	3105.0
2887.1	15°	2988.1	3078.9	3183.3	3203.7	3181.0	3149.3	3116.4	3072.1	3049.4	3031.2
2939.3	17.5°	3046.0	3145.9	3226.4	3211.7	3162.9	3110.7	3057.3	2990.4	2943.9	2924.6
3010.8	20°	3126.6	3216.2	3259.4	3194.7	3120.9	3041.5	2950.7	2869.0	2825.8	2806.5
3101.6	22.5°	3224.2	3310.4	3291.1	3165.2	3060.7	2933.6	2820.2	2760.0	2738.4	2724.8
3218.5	25°	3341.1	3414.8	3313.8	3122.0	2962.0	2790.7	2703.3	2684.0	2673.8	2663.5
3361.5	27.5°	3493.1	3532.9	3330.8	3058.5	2807.7	2638.6	2606.8	2610.2	2606.8	2589.8
3560.1	30°	3694.0	3686.1	3346.7	2955.2	2630.6	2501.3	2503.5	2518.3	2520.6	2509.2
3837.0	32.5°	3958.4	3877.9	3354.7	2821.3	2461.5	2381.0	2383.2	2399.1	2410.5	2391.2
4199.0	35°	4278.5	4101.4	3342.2	2653.3	2331.0	2266.3	2249.3	2253.9	2257.3	2239.1
4638.2	37.5°	4651.8	4352.2	3286.6	2467.2	2223.2	2154.0	2117.7	2087.0	2068.9	2051.8
5135.3	40°	5061.5	4625.7	3184.5	2285.6	2102.9	2034.8	1980.4	1922.5	1861.2	1838.5
5661.9	42.5°	5490.5	4907.2	3060.7	2112.0	1964.5	1908.9	1851.0	1767.0	1675.1	1628.5
6208.9	45°	5935.4	5195.4	2939.3	1940.6	1822.6	1798.8	1731.8	1630.8	1530.9	1471.9
6757.0	47.5°	6371.2	5467.8	2761.1	1768.1	1689.8	1715.9	1663.7	1570.7	1459.4	1366.4
7300.6	50°	6787.7	5723.2	2469.5	1593.4	1582.0	1691.0	1641.0	1507.1	1380.0	1260.8
7834.0	52.5°	7200.8	5929.7	2096.1	1434.5	1524.1	1684.1	1611.5	1464.0	1308.5	1183.7
8335.6	55°	7551.4	6036.4	1736.4	1298.3	1440.2	1626.3	1576.3	1412.9	1207.5	1074.7
8679.5	57.5°	7751.2	5950.1	1436.7	1164.4	1324.4	1530.9	1516.2	1304.0	1087.2	985.1
8746.5	60°	7664.9	5600.6	1191.6	1047.5	1214.3	1427.7	1411.8	1196.2	995.3	898.8
8387.8	62.5°	7189.4	4934.4	997.6	945.3	1114.4	1322.1	1307.4	1113.3	924.9	831.9
7435.7	65°	6231.6	4014.0	846.6	860.2	1013.4	1195.0	1216.6	1044.1	869.3	778.5
5752.7	67.5°	4752.8	2907.5	728.6	786.5	914.7	1070.2	1132.6	994.1	822.8	736.5
3328.6	70°	2708.9	1651.2	628.7	715.0	827.3	954.4	1067.9	954.4	772.8	701.4
1247.2	72.5°	1027.1	758.1	543.6	643.5	743.3	856.8	996.4	892.0	715.0	661.6
644.6	75°	548.1	461.9	457.4	559.5	646.9	761.5	906.8	830.7	671.8	699.1
446.0	77.5°	373.4	326.8	382.5	478.9	541.3	656.0	811.4	737.7	582.2	579.9
308.7	80°	258.8	231.5	311.0	385.9	418.8	551.5	708.2	633.3	474.4	442.6
190.7	82.5°	155.5	150.9	232.6	288.3	296.2	425.6	586.7	531.1	388.1	338.2
113.5	85°	85.1	89.7	148.7	169.1	172.5	297.3	459.6	410.8	298.5	250.8
40.9	87.5°	23.8	30.6	54.5	67.0	82.8	154.3	273.5	244.0	149.8	104.4
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>
2797.5
3002.9
3133.4
3170.8
3150.4
3102.7
3036.9
2925.7
2804.3
2727.1
2663.5
2593.2
2514.9
2400.3
2251.6
2063.2
1848.7
1634.2
1467.4
1356.2
1250.6
1170.1
1063.4
971.5
885.2
817.1
763.8
722.9
692.3
652.6
721.8
534.5
423.3
340.5
253.1
104.4
0.0

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