

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: P939935

Luminaire Tested: **GALN-SB2D-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20164 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

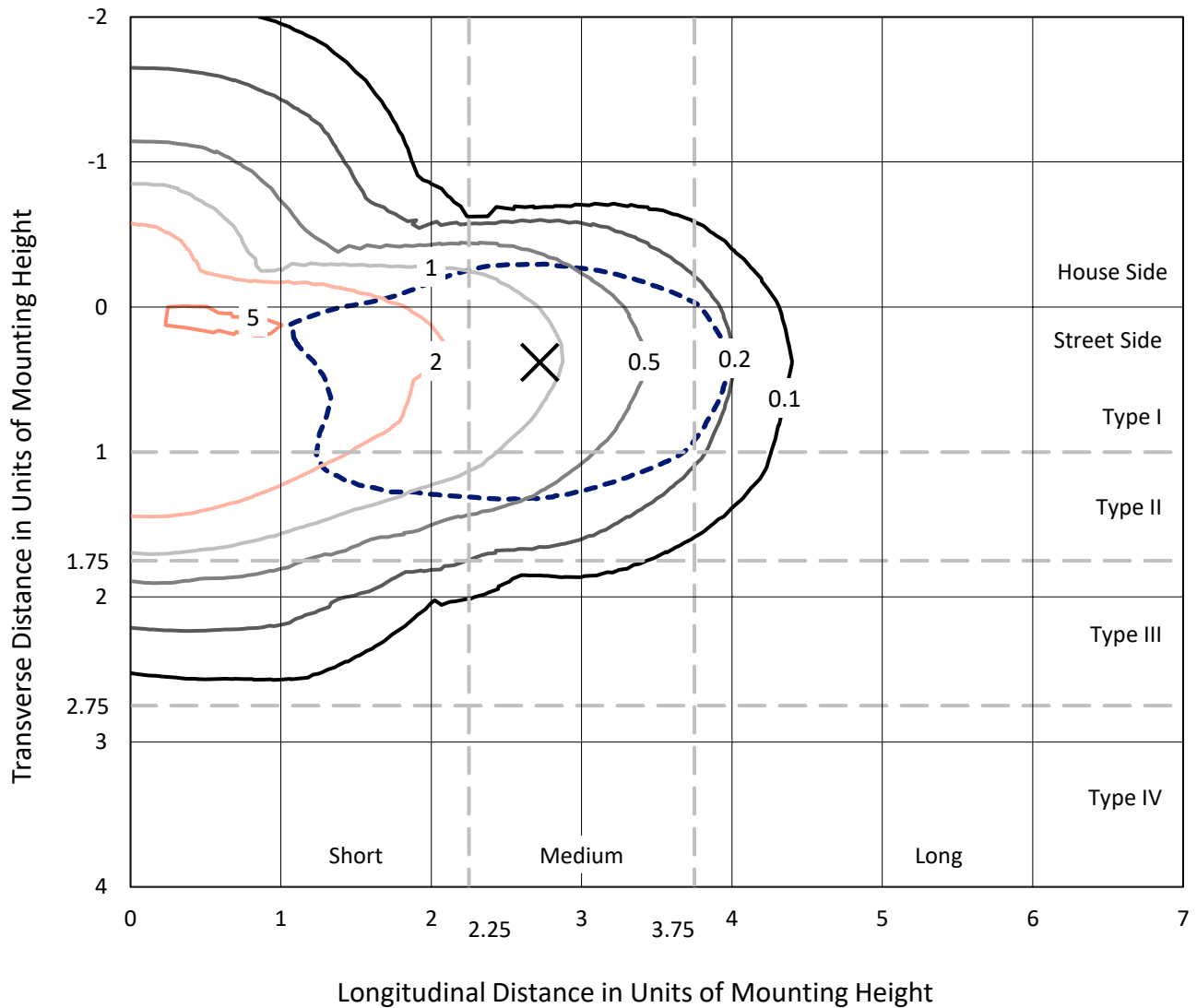
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

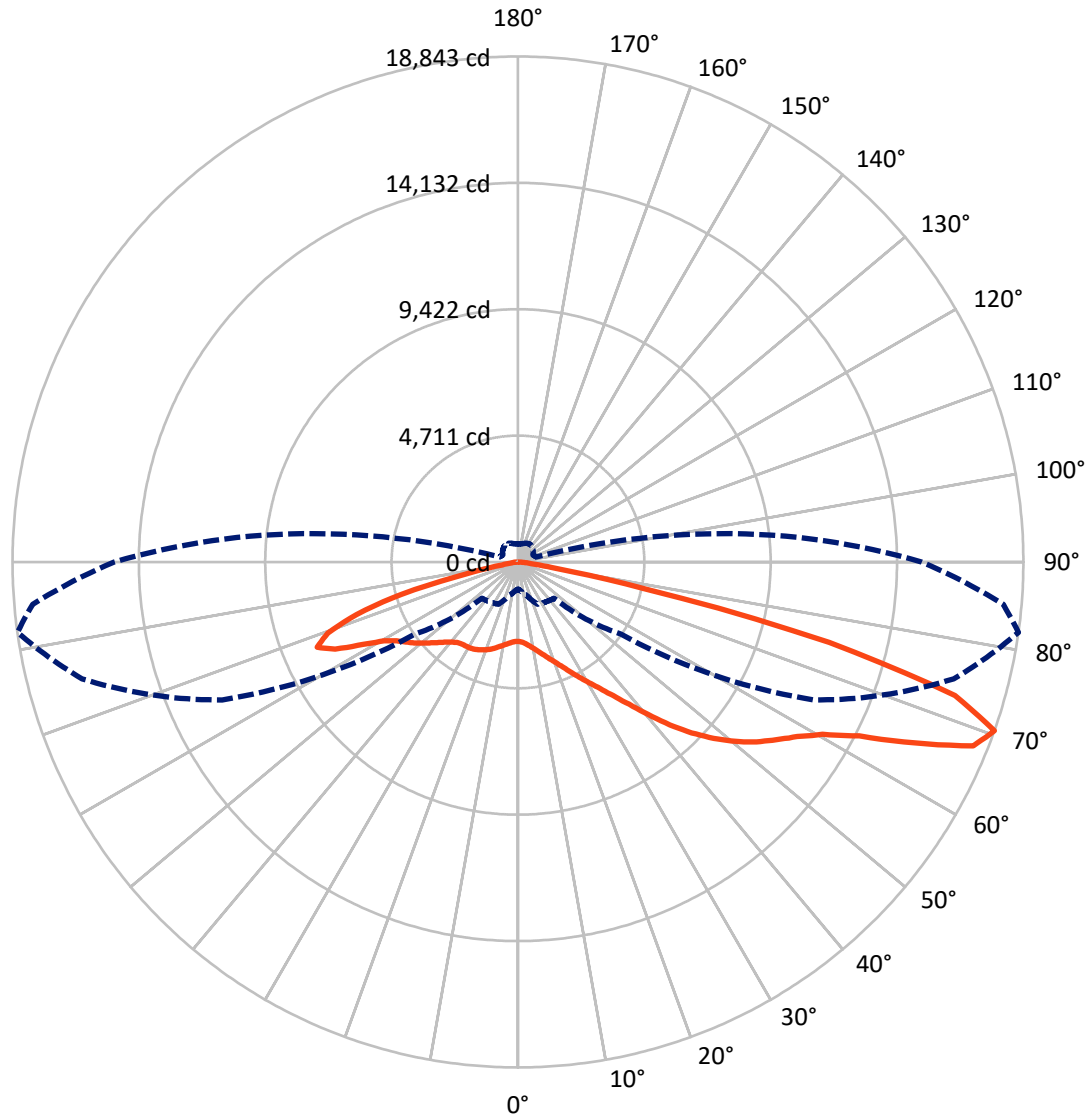
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4970.9	0.0	4970.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15193.1	0.0	15193.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	20164.0	0.0	20164.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	1.4
10°-20°	801.9	4.0
20°-30°	1341.6	6.7
30°-40°	2095.9	10.4
40°-50°	3337.9	16.6
50°-60°	4645.2	23.0
60°-70°	4859.0	24.1
70°-80°	2539.6	12.6
80°-90°	263.7	1.3
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°	20164.0	100.0
0°-180°	20164.0	100.0



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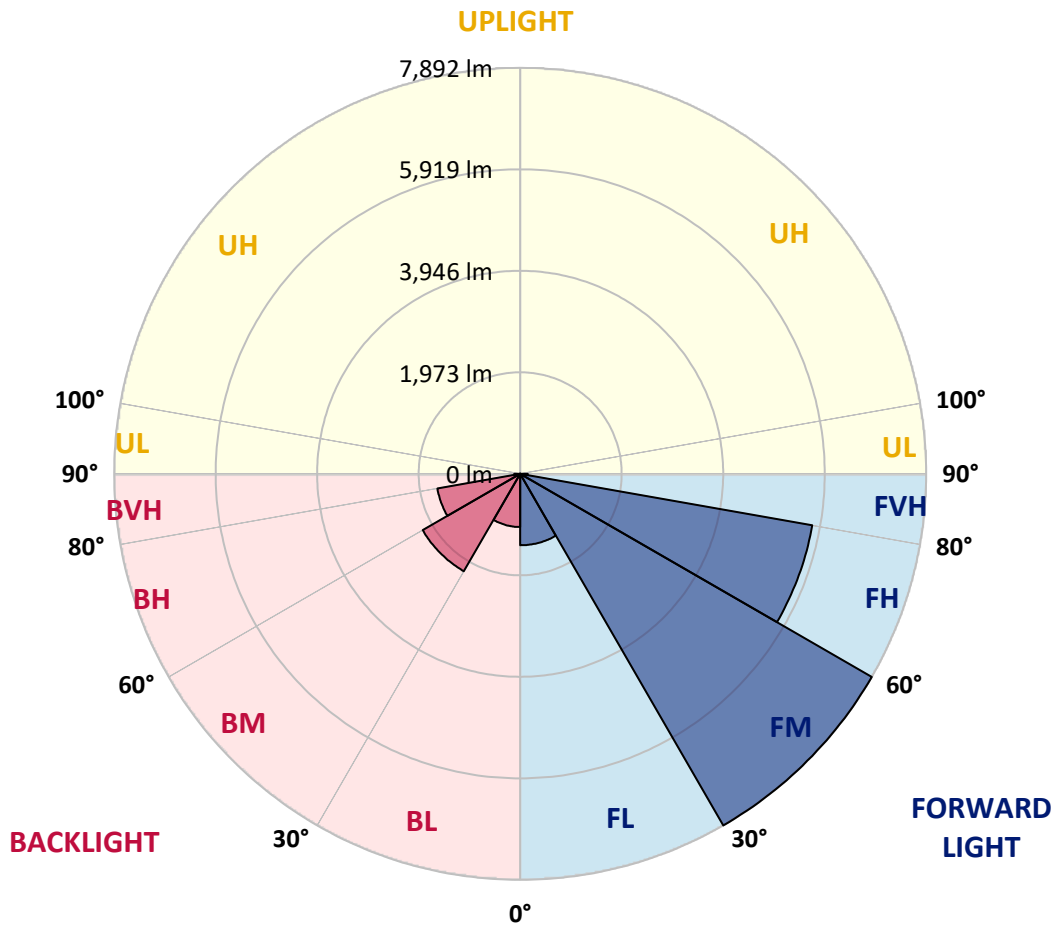
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.5	6.9			
FM (30°-60°)	7892.0	39.1			
FH (60°-80°)	5764.9	28.6			G3/7500
FVH (80°-90°)	147.6	0.7			G2/225
BL (0°-30°)	1034.1	5.1	B3/2500		
BM (30°-60°)	2187.0	10.8	B2/2500		
BH (60°-80°)	1633.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	116.1	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3
2.5°	3026.9	3044.0	3038.7	3033.3	3033.3	3025.8	3024.8	3014.1	3005.5	2991.6
5°	3065.4	3083.6	3081.5	3085.8	3099.7	3102.9	3106.1	3099.7	3082.5	3065.4
7.5°	3031.2	3051.5	3057.9	3083.6	3126.4	3164.9	3193.8	3205.6	3189.5	3164.9
10°	2915.6	2938.1	2960.6	3021.6	3097.5	3188.5	3265.5	3311.5	3308.3	3284.8
12.5°	2681.3	2704.9	2753.0	2871.8	3010.9	3171.4	3314.7	3411.0	3444.2	3427.1
15°	2494.1	2514.4	2550.8	2672.8	2853.6	3097.5	3332.9	3520.2	3604.7	3595.1
17.5°	2488.7	2497.3	2519.8	2577.5	2716.6	2982.0	3313.7	3627.2	3788.7	3787.7
20°	2582.9	2586.1	2598.9	2610.7	2689.9	2894.2	3264.4	3716.0	3995.2	3995.2
22.5°	2713.4	2711.3	2724.1	2713.4	2751.9	2886.7	3233.4	3794.1	4225.3	4242.4
25°	2909.2	2898.5	2895.3	2870.7	2878.2	2956.3	3267.7	3882.9	4498.1	4533.4
27.5°	3170.3	3153.2	3141.4	3084.7	3065.4	3099.7	3372.5	3989.9	4802.0	4863.0
30°	3510.5	3479.5	3462.4	3363.9	3294.4	3299.8	3530.9	4132.2	5119.8	5218.2
32.5°	3974.9	3926.7	3880.7	3719.2	3591.8	3550.1	3735.2	4329.1	5464.3	5621.6
35°	4494.9	4456.4	4407.2	4157.9	3962.1	3865.8	4011.3	4604.0	5867.7	6117.0
37.5°	4995.6	4962.5	4986.0	4650.0	4397.5	4257.4	4372.9	4973.2	6365.2	6733.2
40°	5513.5	5487.8	5491.0	5170.0	4875.8	4718.5	4811.6	5436.5	6935.5	7466.2
42.5°	6076.3	6057.0	5992.8	5708.2	5377.6	5231.0	5316.6	5971.4	7547.5	8300.7
45°	6706.5	6694.7	6634.8	6308.5	5929.7	5764.9	5880.5	6562.1	8162.7	9086.1
47.5°	7251.1	7260.7	7253.2	6978.3	6585.6	6343.8	6481.8	7178.3	8735.1	9824.4
50°	7513.2	7563.5	7637.4	7551.8	7307.8	7061.7	7088.5	7773.2	9280.8	10516.6
52.5°	7376.3	7471.5	7672.7	7809.6	7903.8	7852.4	7780.7	8363.9	9794.4	11141.5
55°	6865.9	6999.7	7333.5	7664.1	8144.5	8517.9	8612.1	9018.7	10295.1	11691.4
57.5°	5936.1	6153.3	6452.9	7121.6	7930.5	8840.0	9581.5	9927.1	10825.8	12278.8
60°	4341.9	4632.9	5005.3	6000.3	7181.6	8667.7	10406.4	11322.3	11580.2	13039.6
62.5°	2778.7	2958.4	3300.8	4238.1	5595.9	7785.0	10658.9	13066.3	12858.8	14287.2
65°	1902.4	2017.9	2331.4	2857.9	3617.5	5794.9	9982.7	14373.8	14889.5	16264.4
67.5°	1382.4	1470.1	1737.6	2198.8	2357.1	3429.2	7746.5	14313.9	16863.6	18301.6
70°	1007.9	1070.0	1294.6	1737.6	1813.6	1907.7	4692.8	12167.6	16820.8	18843.0
72.5°	746.8	789.6	940.5	1348.1	1468.0	1288.2	2322.9	8843.2	14454.1	17043.4
75°	540.3	572.4	683.7	1031.4	1174.8	981.2	1158.8	5167.9	10082.2	11988.9
77.5°	413.0	437.6	510.4	755.4	940.5	736.1	719.0	2377.4	4780.6	4804.1
80°	331.7	347.7	387.3	531.8	721.2	551.0	468.6	959.8	1510.8	1278.6
82.5°	244.0	270.7	327.4	373.4	515.7	379.8	285.7	484.7	574.6	494.3
85°	139.1	157.3	197.9	267.5	329.5	232.2	163.7	215.1	267.5	219.3
87.5°	49.2	64.2	69.5	104.9	143.4	96.3	63.1	62.1	87.7	65.3
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°
2956.3	0°	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3
2988.4	2.5°	2977.7	2972.3	2950.9	2922.1	2892.1	2863.2	2853.6	2833.2	2819.3	2811.9
3057.9	5°	3037.6	3020.5	2970.2	2906.0	2838.6	2765.8	2714.5	2667.4	2633.2	2601.1
3153.2	7.5°	3123.2	3093.2	3006.6	2894.2	2774.4	2653.5	2563.6	2495.1	2449.1	2419.2
3264.4	10°	3222.7	3176.7	3044.0	2876.0	2690.9	2517.6	2411.7	2352.8	2323.9	2307.9
3391.8	12.5°	3337.2	3271.9	3082.5	2834.3	2563.6	2365.7	2292.9	2275.8	2276.9	2277.9
3552.3	15°	3478.4	3387.5	3113.6	2743.4	2397.8	2249.1	2236.2	2264.0	2292.9	2306.8
3734.2	17.5°	3637.9	3509.5	3118.9	2593.6	2235.1	2174.2	2214.8	2274.7	2318.6	2337.9
3937.4	20°	3809.1	3633.6	3080.4	2381.7	2101.4	2113.2	2185.9	2263.0	2311.1	2335.7
4169.6	22.5°	4004.9	3766.3	2988.4	2159.2	1992.3	2046.8	2132.4	2207.3	2257.6	2282.2
4442.5	25°	4228.5	3915.0	2843.9	1971.9	1898.1	1971.9	2057.5	2119.6	2160.2	2182.7
4747.4	27.5°	4476.7	4070.1	2651.4	1823.2	1815.7	1894.9	1965.5	2013.7	2035.1	2052.2
5071.6	30°	4726.0	4211.4	2418.1	1710.9	1744.0	1818.9	1869.2	1890.6	1897.0	1900.2
5433.2	32.5°	4995.6	4333.3	2173.1	1617.8	1675.6	1745.1	1775.1	1784.7	1754.7	1734.4
5871.9	35°	5322.0	4463.9	1933.4	1543.9	1608.1	1668.1	1677.7	1669.1	1633.8	1592.1
6421.9	37.5°	5725.3	4626.5	1741.9	1491.5	1545.0	1584.6	1572.8	1570.7	1573.9	1524.7
7083.1	40°	6219.7	4838.4	1601.7	1450.9	1493.7	1502.2	1469.1	1487.2	1503.3	1428.4
7808.6	42.5°	6768.6	5094.1	1512.9	1423.0	1450.9	1430.5	1379.2	1399.5	1397.4	1298.9
8537.2	45°	7328.1	5372.3	1481.9	1402.7	1411.3	1370.6	1313.9	1319.3	1274.3	1185.5
9235.9	47.5°	7884.5	5670.8	1501.2	1385.6	1362.1	1316.0	1272.2	1248.6	1182.3	1116.0
9905.7	50°	8430.2	5984.3	1571.8	1351.4	1294.6	1267.9	1235.8	1194.1	1123.5	1066.7
10539.1	52.5°	8936.3	6299.9	1650.9	1294.6	1210.1	1226.2	1205.8	1157.7	1088.1	1030.4
11138.3	55°	9415.6	6615.6	1682.0	1216.5	1130.9	1189.8	1178.0	1089.2	1005.8	958.7
11765.3	57.5°	9937.8	6995.4	1647.7	1117.0	1066.7	1148.1	1103.1	1004.7	956.5	921.2
12581.6	60°	10661.1	7591.4	1573.9	994.0	1005.8	1086.0	1009.0	968.3	915.9	876.3
13805.7	62.5°	11862.6	8703.0	1455.1	872.0	934.1	994.0	964.0	923.4	869.9	831.4
15898.5	65°	13638.8	10248.1	1231.5	776.8	853.8	904.1	915.9	875.2	819.6	778.9
17732.4	67.5°	15136.7	11217.4	931.9	697.6	771.4	831.4	864.5	824.9	766.1	726.5
18161.5	70°	15054.3	10513.4	711.5	619.5	698.7	759.7	802.5	771.4	708.3	670.9
16496.6	72.5°	13371.3	8795.1	575.6	540.3	624.9	684.8	736.1	712.6	648.4	612.0
12085.2	75°	9823.3	6243.2	460.1	460.1	532.8	606.7	663.4	648.4	589.5	563.9
5073.7	77.5°	4140.7	2619.3	360.6	382.0	443.0	521.1	591.7	597.0	545.7	577.8
1341.7	80°	1101.0	722.2	275.0	300.7	347.7	430.1	514.6	512.5	456.9	426.9
498.6	82.5°	419.4	284.6	195.8	211.9	251.4	329.5	407.7	420.5	364.9	315.6
195.8	85°	161.6	122.0	120.9	127.3	146.6	218.3	308.1	318.8	275.0	233.3
54.6	87.5°	41.7	36.4	44.9	42.8	67.4	116.6	176.5	183.0	168.0	97.4
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>
2956.3
2820.4
2613.9
2425.6
2312.2
2280.1
2305.8
2342.1
2342.1
2288.6
2189.1
2058.6
1907.7
1740.8
1594.2
1527.9
1430.5
1297.9
1188.7
1116.0
1062.5
1031.4
954.4
918.0
874.2
831.4
781.1
727.6
674.1
612.0
556.4
524.3
397.0
315.6
240.7
139.1
0.0

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