

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: P941765

Luminaire Tested: **GALN-SB5B-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941765
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-SB5B-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19607 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

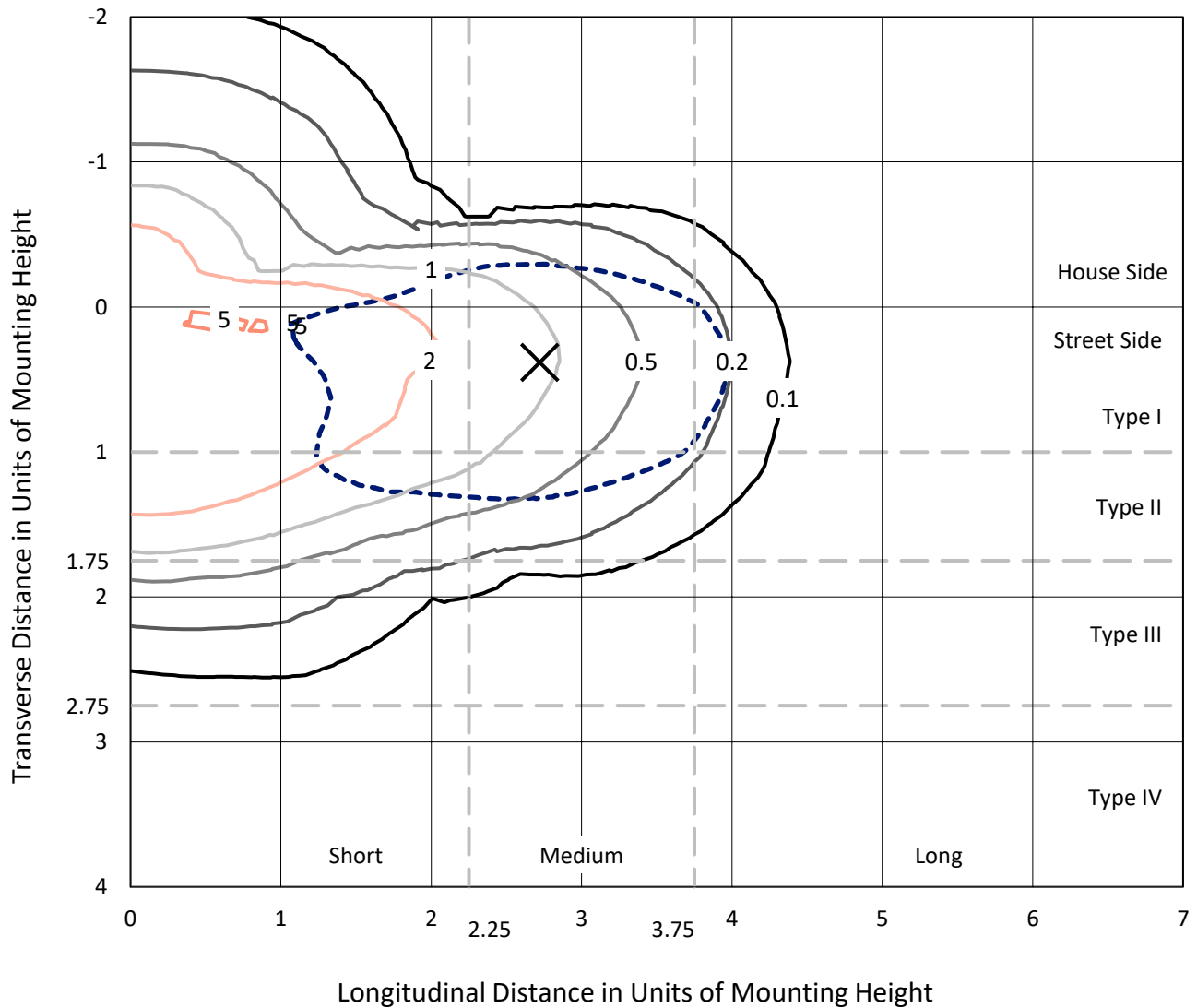
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

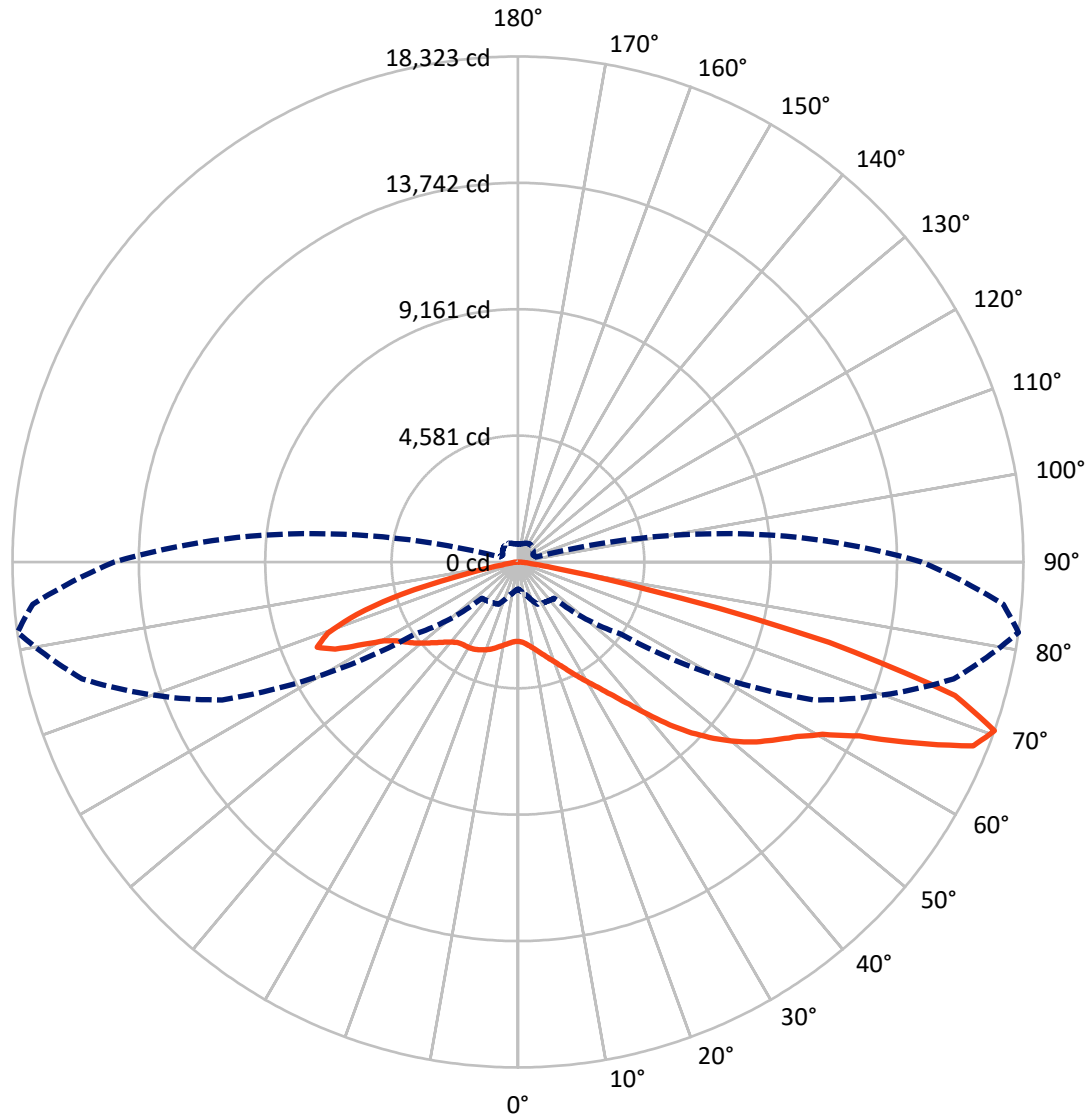
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	4833.6	0.0	4833.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14773.4	0.0	14773.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	19607.0	0.0	19607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	1.4
10°-20°	779.8	4.0
20°-30°	1304.5	6.7
30°-40°	2038.0	10.4
40°-50°	3245.7	16.6
50°-60°	4516.8	23.0
60°-70°	4724.8	24.1
70°-80°	2469.4	12.6
80°-90°	256.4	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°	19607.0	100.0
0°-180°	19607.0	100.0

Coefficient of Utilization



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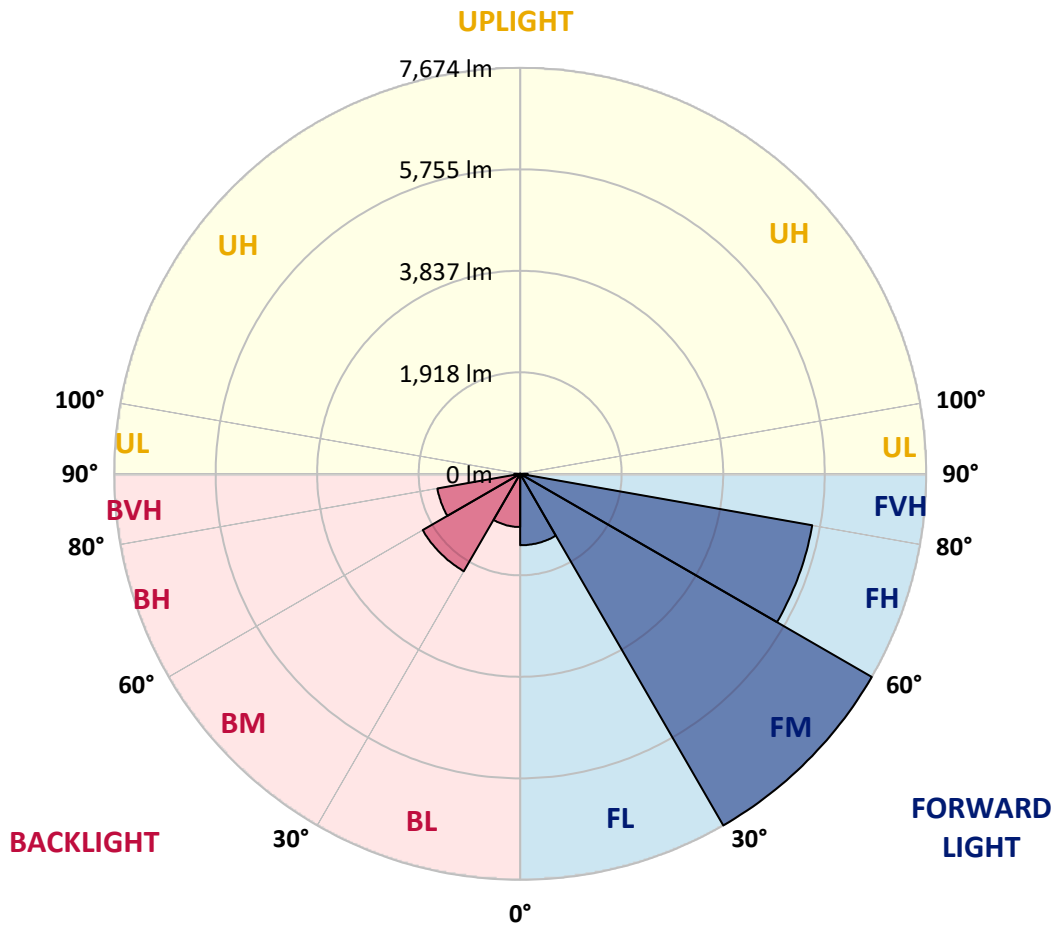
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.2	6.9			
FM (30°-60°)	7674.0	39.1			
FH (60°-80°)	5605.7	28.6			G3/7500
FVH (80°-90°)	143.5	0.7			G2/225
BL (0°-30°)	1005.6	5.1	B3/2500		
BM (30°-60°)	2126.6	10.8	B2/2500		
BH (60°-80°)	1588.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	112.9	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°	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6
2.5°	2943.3	2959.9	2954.7	2949.5	2949.5	2942.3	2941.2	2930.8	2922.5	2909.0
5°	2980.8	2998.4	2996.4	3000.5	3014.0	3017.2	3020.3	3014.0	2997.4	2980.8
7.5°	2947.5	2967.2	2973.5	2998.4	3040.1	3077.5	3105.6	3117.0	3101.4	3077.5
10°	2835.1	2856.9	2878.8	2938.1	3012.0	3100.4	3175.3	3220.0	3216.9	3194.0
12.5°	2607.2	2630.1	2677.0	2792.4	2927.7	3083.8	3223.2	3316.8	3349.1	3332.4
15°	2425.2	2444.9	2480.3	2598.9	2774.8	3012.0	3240.9	3422.9	3505.1	3495.8
17.5°	2420.0	2428.3	2450.1	2506.3	2641.6	2899.6	3222.1	3527.0	3684.1	3683.0
20°	2511.5	2514.7	2527.1	2538.6	2615.6	2814.3	3174.3	3613.3	3884.9	3884.9
22.5°	2638.5	2636.4	2648.9	2638.5	2675.9	2807.0	3144.1	3689.3	4108.5	4125.2
25°	2828.9	2818.4	2815.3	2791.4	2798.7	2874.6	3177.4	3775.6	4373.9	4408.2
27.5°	3082.7	3066.1	3054.6	2999.5	2980.8	3014.0	3279.3	3879.7	4669.3	4728.6
30°	3413.6	3383.4	3366.7	3271.0	3203.4	3208.6	3433.3	4018.0	4978.3	5074.0
32.5°	3865.1	3818.3	3773.5	3616.4	3492.6	3452.1	3632.0	4209.5	5313.3	5466.3
35°	4370.7	4333.3	4285.4	4043.0	3852.6	3759.0	3900.5	4476.9	5705.6	5948.0
37.5°	4857.6	4825.4	4848.3	4521.6	4276.1	4139.8	4252.1	4835.8	6189.4	6547.3
40°	5361.2	5336.2	5339.3	5027.2	4741.1	4588.2	4678.7	5286.3	6743.9	7259.9
42.5°	5908.4	5889.7	5827.3	5550.5	5229.1	5086.5	5169.8	5806.5	7339.0	8071.4
45°	6521.2	6509.8	6451.5	6134.2	5765.9	5605.7	5718.1	6380.8	7937.2	8835.1
47.5°	7050.8	7060.2	7052.9	6785.5	6403.7	6168.5	6302.8	6980.1	8493.8	9553.0
50°	7305.7	7354.6	7426.4	7343.2	7105.9	6866.7	6892.7	7558.5	9024.4	10226.1
52.5°	7172.5	7265.1	7460.7	7593.9	7685.5	7635.5	7565.8	8132.8	9523.8	10833.7
55°	6676.3	6806.3	7130.9	7452.4	7919.5	8282.6	8374.2	8769.6	10010.8	11368.5
57.5°	5772.2	5983.4	6274.7	6924.9	7711.5	8595.8	9316.8	9652.9	10526.8	11939.7
60°	4222.0	4504.9	4867.0	5834.6	6983.2	8428.3	10119.0	11009.5	11260.3	12679.4
62.5°	2701.9	2876.7	3209.6	4121.0	5441.3	7570.0	10364.5	12705.4	12503.6	13892.5
65°	1849.8	1962.2	2267.0	2778.9	3517.6	5634.8	9707.0	13976.8	14478.2	15815.2
67.5°	1344.2	1429.5	1689.6	2138.0	2292.0	3334.5	7532.5	13918.5	16397.8	17796.1
70°	980.1	1040.4	1258.9	1689.6	1763.5	1855.0	4563.2	11831.5	16356.2	18322.5
72.5°	726.2	767.8	914.5	1310.9	1427.4	1252.6	2258.7	8598.9	14054.8	16572.6
75°	525.4	556.6	664.8	1002.9	1142.4	954.0	1126.8	5025.1	9803.7	11657.7
77.5°	401.6	425.5	496.3	734.5	914.5	715.8	699.2	2311.8	4648.5	4671.4
80°	322.5	338.1	376.6	517.1	701.2	535.8	455.7	933.2	1469.0	1243.3
82.5°	237.2	263.2	318.4	363.1	501.5	369.3	277.8	471.3	558.7	480.7
85°	135.3	152.9	192.5	260.1	320.4	225.8	159.2	209.1	260.1	213.3
87.5°	47.9	62.4	67.6	102.0	139.4	93.6	61.4	60.3	85.3	63.5
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°
2874.6	0°	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6	2874.6
2905.8	2.5°	2895.4	2890.2	2869.4	2841.3	2812.2	2784.1	2774.8	2755.0	2741.5	2734.2
2973.5	5°	2953.7	2937.1	2888.2	2825.7	2760.2	2689.4	2639.5	2593.7	2560.4	2529.2
3066.1	7.5°	3036.9	3007.8	2923.5	2814.3	2697.8	2580.2	2492.8	2426.2	2381.5	2352.3
3174.3	10°	3133.7	3089.0	2959.9	2796.6	2616.6	2448.1	2345.1	2287.8	2259.8	2244.1
3298.1	12.5°	3245.0	3181.6	2997.4	2756.0	2492.8	2300.3	2229.6	2212.9	2214.0	2215.0
3454.1	15°	3382.3	3293.9	3027.6	2667.6	2331.5	2186.9	2174.4	2201.5	2229.6	2243.1
3631.0	17.5°	3537.4	3412.5	3032.8	2521.9	2173.4	2114.1	2153.6	2211.9	2254.6	2273.3
3828.7	20°	3703.8	3533.2	2995.3	2315.9	2043.3	2054.8	2125.5	2200.5	2247.3	2271.2
4054.4	22.5°	3894.2	3662.2	2905.8	2099.5	1937.2	1990.3	2073.5	2146.3	2195.2	2219.2
4319.8	25°	4111.7	3806.8	2765.4	1917.5	1845.7	1917.5	2000.7	2061.0	2100.6	2122.4
4616.3	27.5°	4353.0	3957.7	2578.1	1772.8	1765.6	1842.6	1911.2	1958.0	1978.8	1995.5
4931.5	30°	4595.5	4095.0	2351.3	1663.6	1695.9	1768.7	1817.6	1838.4	1844.6	1847.8
5283.2	32.5°	4857.6	4213.6	2113.1	1573.1	1629.3	1696.9	1726.0	1735.4	1706.3	1686.5
5709.7	35°	5175.0	4340.6	1880.0	1501.3	1563.7	1622.0	1631.4	1623.0	1588.7	1548.1
6244.5	37.5°	5567.2	4498.7	1693.8	1450.3	1502.3	1540.8	1529.4	1527.3	1530.4	1482.6
6887.5	40°	6047.9	4704.7	1557.5	1410.8	1452.4	1460.7	1428.5	1446.2	1461.8	1388.9
7592.9	42.5°	6581.6	4953.4	1471.1	1383.7	1410.8	1391.0	1341.1	1360.8	1358.8	1263.0
8301.4	45°	7125.7	5223.9	1441.0	1364.0	1372.3	1332.8	1277.6	1282.8	1239.1	1152.8
8980.8	47.5°	7666.7	5514.1	1459.7	1347.3	1324.4	1279.7	1237.0	1214.1	1149.6	1085.1
9632.0	50°	8197.3	5819.0	1528.4	1314.0	1258.9	1232.9	1201.7	1161.1	1092.4	1037.3
10248.0	52.5°	8689.4	6125.9	1605.3	1258.9	1176.7	1192.3	1172.5	1125.7	1058.1	1001.9
10830.6	55°	9155.5	6432.8	1635.5	1182.9	1099.7	1156.9	1145.5	1059.1	978.0	932.2
11440.3	57.5°	9663.3	6802.1	1602.2	1086.2	1037.3	1116.4	1072.7	976.9	930.1	895.8
12234.1	60°	10366.6	7381.7	1530.4	966.5	978.0	1056.0	981.1	941.6	890.6	852.1
13424.3	62.5°	11534.9	8462.6	1414.9	847.9	908.3	966.5	937.4	897.9	845.8	808.4
15459.3	65°	13262.0	9965.0	1197.5	755.3	830.2	879.1	890.6	851.0	796.9	757.4
17242.6	67.5°	14718.6	10907.6	906.2	678.3	750.1	808.4	840.6	802.2	744.9	706.4
17659.8	70°	14638.5	10223.0	691.9	602.4	679.4	738.7	780.3	750.1	688.7	652.3
16040.9	72.5°	13001.9	8552.1	559.7	525.4	607.6	665.9	715.8	692.9	630.5	595.1
11751.3	75°	9551.9	6070.7	447.4	447.4	518.1	589.9	645.0	630.5	573.3	548.3
4933.6	77.5°	4026.4	2546.9	350.6	371.4	430.7	506.7	575.3	580.5	530.6	561.8
1304.7	80°	1070.6	702.3	267.4	292.4	338.1	418.2	500.4	498.4	444.3	415.1
484.8	82.5°	407.8	276.7	190.4	206.0	244.5	320.4	396.4	408.9	354.8	306.9
190.4	85°	157.1	118.6	117.6	123.8	142.5	212.2	299.6	310.0	267.4	226.8
53.1	87.5°	40.6	35.4	43.7	41.6	65.5	113.4	171.7	177.9	163.3	94.7
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>
2874.6
2742.5
2541.7
2358.6
2248.3
2217.1
2242.1
2277.4
2277.4
2225.4
2128.7
2001.7
1855.0
1692.7
1550.2
1485.7
1391.0
1262.0
1155.9
1085.1
1033.1
1002.9
928.0
892.7
850.0
808.4
759.5
707.5
655.5
595.1
541.0
509.8
386.0
306.9
234.1
135.3
0.0

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