

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: P940005

Luminaire Tested: **GALN-SB2D-840-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940005
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-840-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19287 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

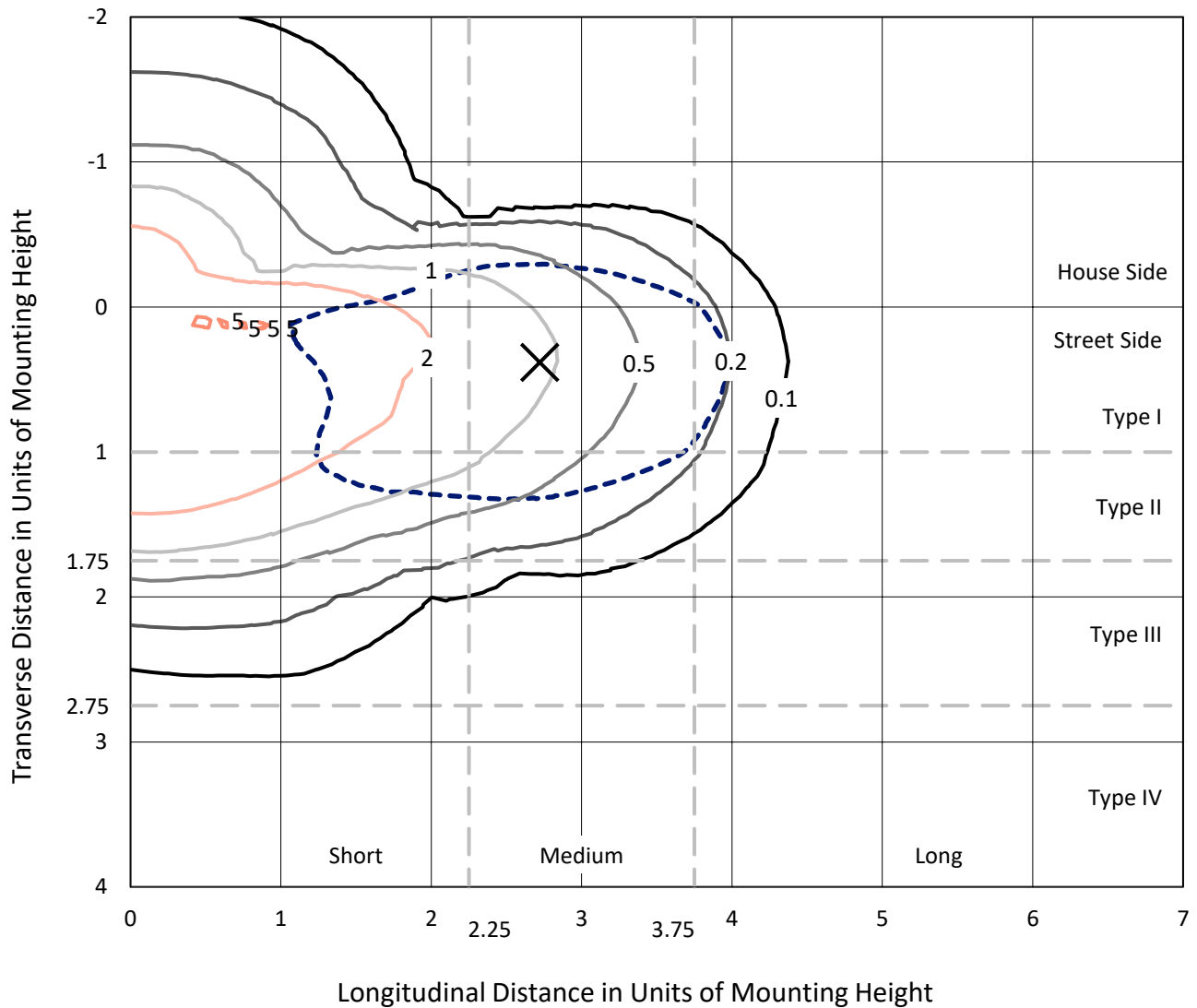
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

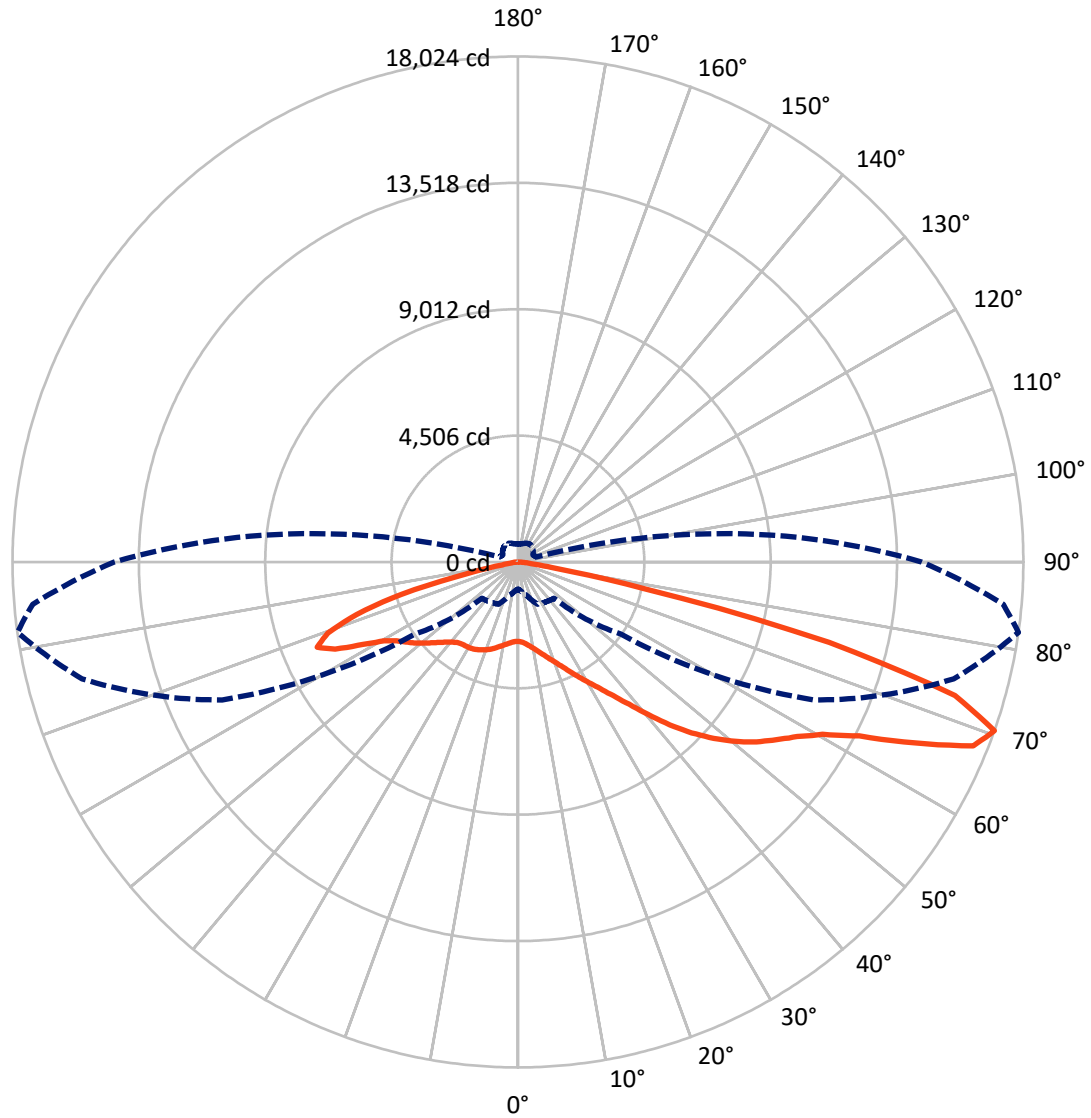
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4754.7	0.0	4754.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14532.3	0.0	14532.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	19287.0	0.0	19287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	1.4
10°-20°	767.1	4.0
20°-30°	1283.2	6.7
30°-40°	2004.7	10.4
40°-50°	3192.8	16.6
50°-60°	4443.1	23.0
60°-70°	4647.7	24.1
70°-80°	2429.1	12.6
80°-90°	252.2	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°	19287.0	100.0
0°-180°	19287.0	100.0

Coefficient of Utilization



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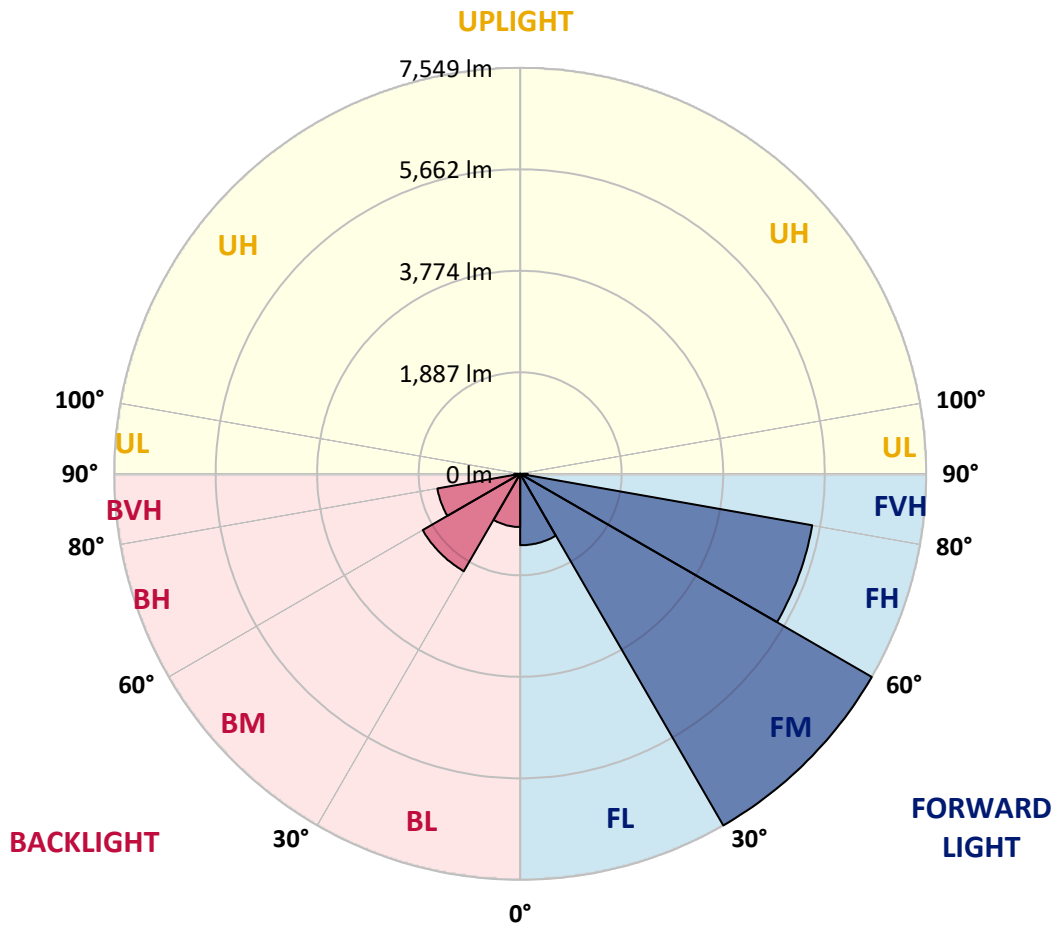
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.1	6.9			
FM (30°-60°)	7548.7	39.1			
FH (60°-80°)	5514.2	28.6			G3/7500
FVH (80°-90°)	141.2	0.7			G2/225
BL (0°-30°)	989.2	5.1	B2/1000		
BM (30°-60°)	2091.9	10.8	B2/2500		
BH (60°-80°)	1562.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	111.0	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°	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7
2.5°	2895.3	2911.6	2906.5	2901.4	2901.4	2894.2	2893.2	2883.0	2874.8	2861.5
5°	2932.1	2949.5	2947.5	2951.5	2964.9	2967.9	2971.0	2964.9	2948.5	2932.1
7.5°	2899.4	2918.8	2924.9	2949.5	2990.4	3027.3	3054.9	3066.2	3050.8	3027.3
10°	2788.8	2810.3	2831.8	2890.1	2962.8	3049.8	3123.5	3167.5	3164.4	3141.9
12.5°	2564.7	2587.2	2633.3	2746.9	2879.9	3033.4	3170.6	3262.7	3294.4	3278.0
15°	2385.6	2405.0	2439.8	2556.5	2729.5	2962.8	3188.0	3367.1	3447.9	3438.7
17.5°	2380.5	2388.7	2410.2	2465.4	2598.5	2852.3	3169.5	3469.4	3623.9	3622.9
20°	2470.5	2473.6	2485.9	2497.2	2572.9	2768.4	3122.5	3554.3	3821.5	3821.5
22.5°	2595.4	2593.4	2605.6	2595.4	2632.2	2761.2	3092.8	3629.1	4041.5	4057.9
25°	2782.7	2772.5	2769.4	2745.8	2753.0	2827.7	3125.5	3714.0	4302.5	4336.2
27.5°	3032.4	3016.0	3004.8	2950.5	2932.1	2964.9	3225.8	3816.3	4593.1	4651.5
30°	3357.8	3328.2	3311.8	3217.6	3151.1	3156.2	3377.3	3952.5	4897.1	4991.2
32.5°	3802.0	3756.0	3712.0	3557.4	3435.6	3395.7	3572.8	4140.8	5226.6	5377.1
35°	4299.4	4262.6	4215.5	3977.0	3789.7	3697.6	3836.8	4403.8	5612.4	5850.9
37.5°	4778.4	4746.6	4769.1	4447.8	4206.3	4072.2	4182.7	4756.9	6088.3	6440.4
40°	5273.7	5249.1	5252.2	4945.2	4663.7	4513.3	4602.3	5200.0	6633.8	7141.4
42.5°	5812.0	5793.6	5732.2	5460.0	5143.7	5003.5	5085.4	5711.7	7219.2	7939.7
45°	6414.8	6403.6	6346.2	6034.1	5671.8	5514.2	5624.7	6276.6	7807.7	8690.9
47.5°	6935.7	6944.9	6937.8	6674.8	6299.2	6067.9	6199.9	6866.1	8355.2	9397.1
50°	7186.5	7234.6	7305.2	7223.3	6990.0	6754.6	6780.2	7435.2	8877.2	10059.2
52.5°	7055.5	7146.6	7339.0	7470.0	7560.0	7510.9	7442.3	8000.1	9368.4	10656.9
55°	6567.3	6695.2	7014.5	7330.8	7790.3	8147.5	8237.5	8626.4	9847.4	11182.9
57.5°	5677.9	5885.7	6172.3	6811.9	7585.6	8455.5	9164.7	9495.3	10355.0	11744.8
60°	4153.0	4431.4	4787.6	5739.4	6869.2	8290.7	9953.8	10829.9	11076.5	12472.4
62.5°	2657.8	2829.8	3157.3	4053.8	5352.5	7446.4	10195.3	12498.0	12299.5	13665.8
65°	1819.6	1930.2	2230.0	2733.6	3460.2	5542.9	9548.5	13748.7	14241.9	15557.0
67.5°	1322.3	1406.2	1662.0	2103.1	2254.6	3280.1	7409.6	13691.3	16130.2	17505.6
70°	964.1	1023.4	1238.3	1662.0	1734.7	1824.8	4488.7	11638.4	16089.2	18023.5
72.5°	714.3	755.3	899.6	1289.5	1404.1	1232.2	2221.8	8458.6	13825.4	16302.1
75°	516.8	547.5	654.0	986.6	1123.7	938.5	1108.4	4943.1	9643.7	11467.4
77.5°	395.0	418.6	488.2	722.5	899.6	704.1	687.7	2274.0	4572.7	4595.2
80°	317.3	332.6	370.5	508.6	689.8	527.1	448.3	918.0	1445.1	1223.0
82.5°	233.3	258.9	313.2	357.2	493.3	363.3	273.3	463.6	549.6	472.8
85°	133.0	150.4	189.3	255.9	315.2	222.1	156.6	205.7	255.9	209.8
87.5°	47.1	61.4	66.5	100.3	137.1	92.1	60.4	59.4	83.9	62.4
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°
2827.7	0°	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7
2858.4	2.5°	2848.2	2843.1	2822.6	2795.0	2766.3	2738.7	2729.5	2710.0	2696.7	2689.6
2924.9	5°	2905.5	2889.1	2841.0	2779.6	2715.1	2645.5	2596.4	2551.4	2518.6	2487.9
3016.0	7.5°	2987.4	2958.7	2875.8	2768.4	2653.7	2538.1	2452.1	2386.6	2342.6	2314.0
3122.5	10°	3082.5	3038.5	2911.6	2751.0	2573.9	2408.1	2306.8	2250.5	2222.9	2207.5
3244.2	12.5°	3192.1	3129.6	2948.5	2711.0	2452.1	2262.8	2193.2	2176.8	2177.8	2178.9
3397.8	15°	3327.1	3240.2	2978.2	2624.1	2293.5	2151.2	2139.0	2165.6	2193.2	2206.5
3571.7	17.5°	3479.6	3356.8	2983.3	2480.8	2137.9	2079.6	2118.5	2175.8	2217.8	2236.2
3766.2	20°	3643.4	3475.5	2946.4	2278.1	2010.0	2021.3	2090.9	2164.5	2210.6	2234.1
3988.3	22.5°	3830.7	3602.4	2858.4	2065.3	1905.6	1957.8	2039.7	2111.3	2159.4	2183.0
4249.2	25°	4044.6	3744.7	2720.3	1886.2	1815.6	1886.2	1968.0	2027.4	2066.3	2087.8
4540.9	27.5°	4282.0	3893.1	2536.0	1743.9	1736.7	1812.5	1880.0	1926.1	1946.5	1962.9
4851.0	30°	4520.5	4028.2	2312.9	1636.5	1668.2	1739.8	1787.9	1808.4	1814.5	1817.6
5196.9	32.5°	4778.4	4144.9	2078.6	1547.4	1602.7	1669.2	1697.9	1707.1	1678.4	1659.0
5616.5	35°	5090.5	4269.7	1849.3	1476.8	1538.2	1595.5	1604.7	1596.5	1562.8	1522.9
6142.6	37.5°	5476.3	4425.3	1666.1	1426.7	1477.8	1515.7	1504.4	1502.4	1505.5	1458.4
6775.1	40°	5949.2	4627.9	1532.1	1387.8	1428.7	1436.9	1405.2	1422.6	1437.9	1366.3
7468.9	42.5°	6474.2	4872.5	1447.1	1361.2	1387.8	1368.3	1319.2	1338.6	1336.6	1242.4
8165.9	45°	7009.4	5138.6	1417.4	1341.7	1349.9	1311.0	1256.8	1261.9	1218.9	1134.0
8834.2	47.5°	7541.6	5424.1	1435.9	1325.3	1302.8	1258.8	1216.8	1194.3	1130.9	1067.4
9474.8	50°	8063.5	5724.0	1503.4	1292.6	1238.3	1212.8	1182.1	1142.1	1074.6	1020.4
10080.7	52.5°	8547.6	6025.9	1579.1	1238.3	1157.5	1172.8	1153.4	1107.3	1040.8	985.6
10653.8	55°	9006.1	6327.8	1608.8	1163.6	1081.8	1138.0	1126.8	1041.8	962.0	917.0
11253.5	57.5°	9505.5	6691.1	1576.1	1068.5	1020.4	1098.1	1055.1	961.0	914.9	881.2
12034.4	60°	10197.4	7261.2	1505.5	950.8	962.0	1038.8	965.1	926.2	876.0	838.2
13205.2	62.5°	11346.7	8324.5	1391.9	834.1	893.4	950.8	922.1	883.2	832.0	795.2
15207.0	65°	13045.6	9802.3	1178.0	743.0	816.7	864.8	876.0	837.2	783.9	745.1
16961.2	67.5°	14478.4	10729.6	891.4	667.3	737.9	795.2	826.9	789.1	732.8	694.9
17371.6	70°	14399.5	10056.1	680.6	592.6	668.3	726.6	767.6	737.9	677.5	641.7
15779.1	72.5°	12789.7	8412.5	550.6	516.8	597.7	655.0	704.1	681.6	620.2	585.4
11559.6	75°	9396.0	5971.7	440.1	440.1	509.7	580.3	634.5	620.2	563.9	539.3
4853.1	77.5°	3960.6	2505.3	344.9	365.4	423.7	498.4	566.0	571.1	521.9	552.6
1283.4	80°	1053.1	690.8	263.0	287.6	332.6	411.4	492.3	490.2	437.0	408.3
476.9	82.5°	401.2	272.2	187.3	202.6	240.5	315.2	389.9	402.2	349.0	301.9
187.3	85°	154.5	116.7	115.6	121.8	140.2	208.8	294.7	305.0	263.0	223.1
52.2	87.5°	39.9	34.8	43.0	40.9	64.5	111.6	168.9	175.0	160.7	93.1
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>
2827.7
2697.7
2500.2
2320.1
2211.6
2180.9
2205.5
2240.3
2240.3
2189.1
2093.9
1969.1
1824.8
1665.1
1524.9
1461.4
1368.3
1241.4
1137.0
1067.4
1016.3
986.6
912.9
878.1
836.1
795.2
747.1
695.9
644.8
585.4
532.2
501.5
379.7
301.9
230.3
133.0
0.0

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