

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: P942565

Luminaire Tested: **GALN-SB6C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942565
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-SB6C-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43042 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

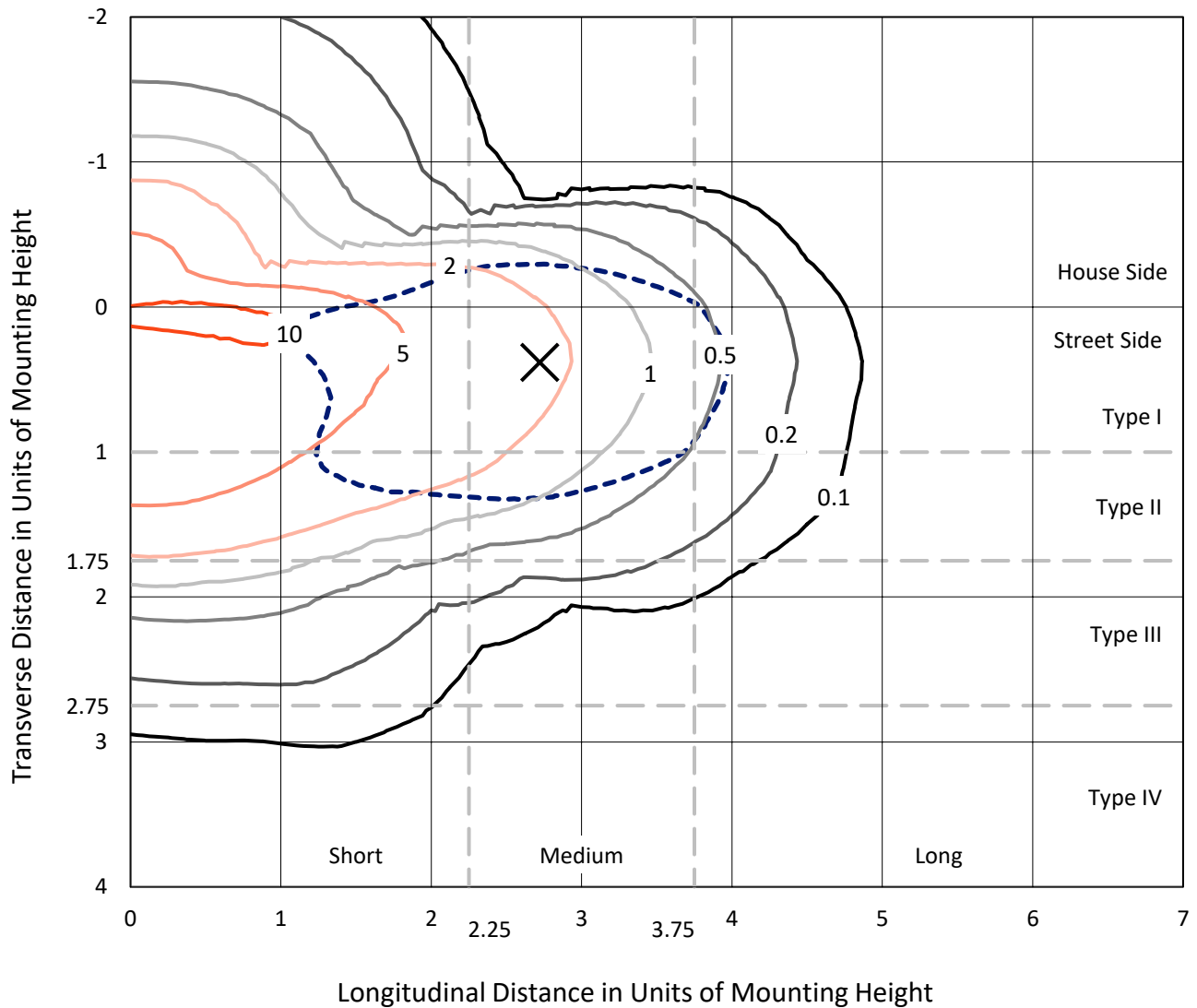
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

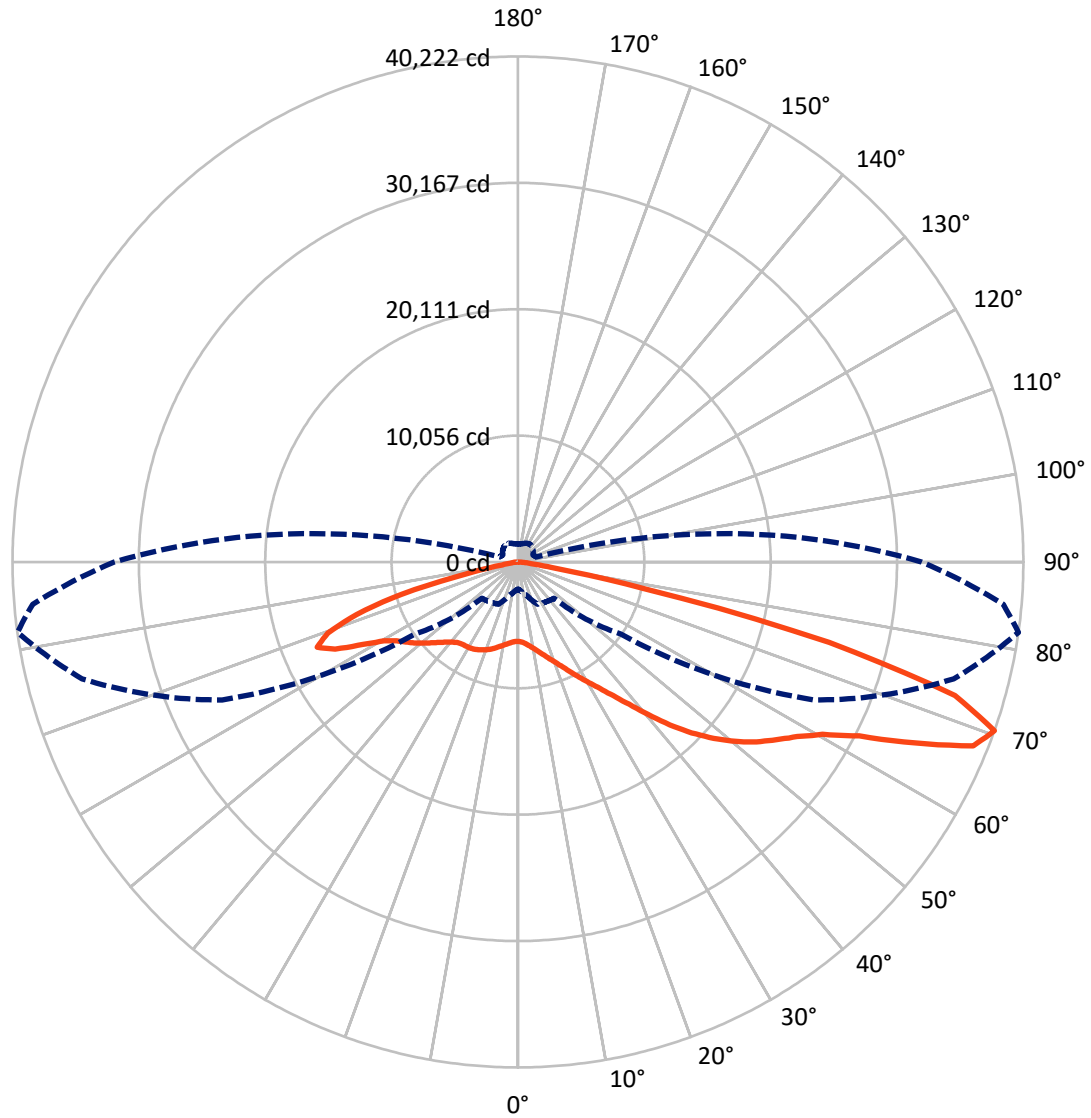
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	10610.9	0.0	10610.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	32431.1	0.0	32431.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	43042.0	0.0	43042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.8	1.4
10°-20°	1711.8	4.0
20°-30°	2863.7	6.7
30°-40°	4473.9	10.4
40°-50°	7125.2	16.6
50°-60°	9915.5	23.0
60°-70°	10372.1	24.1
70°-80°	5421.0	12.6
80°-90°	562.9	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°	43042.0	100.0
0°-180°	43042.0	100.0

Coefficient of Utilization



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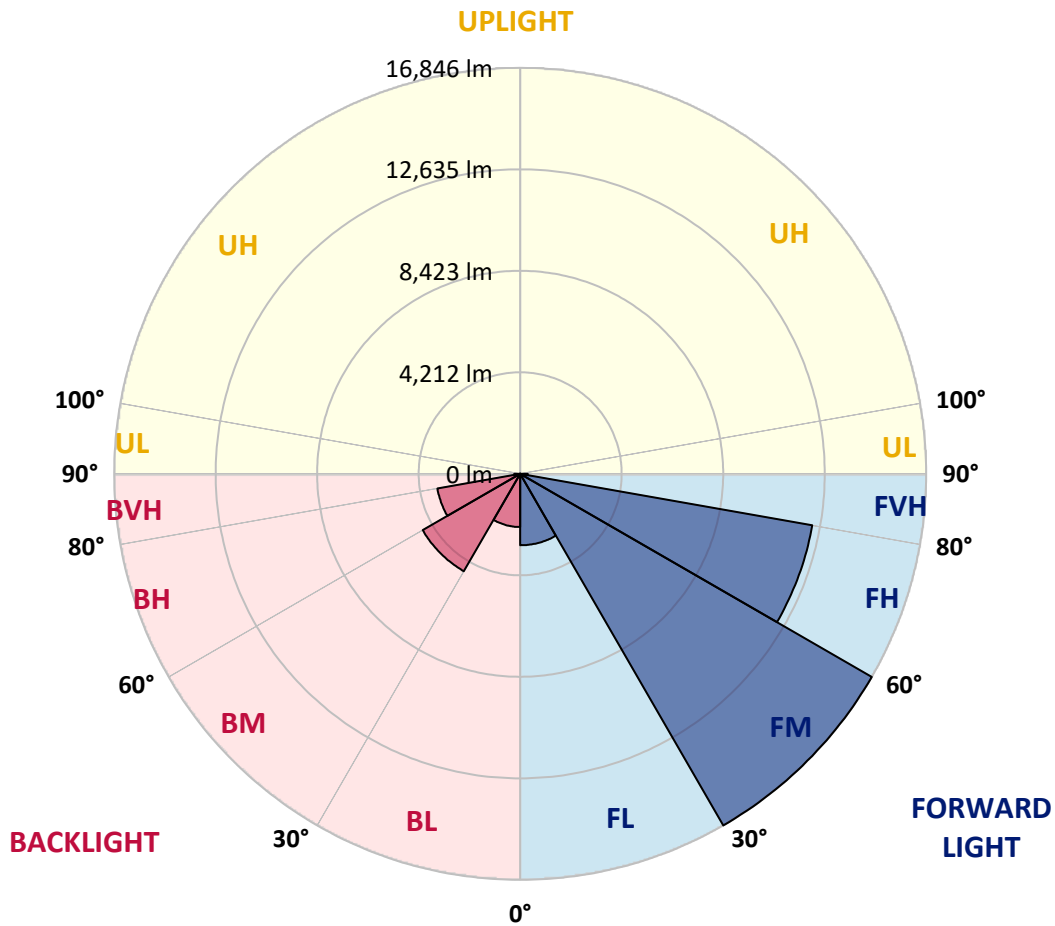
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.9	6.9			
FM (30°-60°)	16846.2	39.1			
FH (60°-80°)	12305.8	28.6			G5
FVH (80°-90°)	315.1	0.7			G3/500
BL (0°-30°)	2207.5	5.1	B3/2500		
BM (30°-60°)	4668.4	10.8	B3/5000		
BH (60°-80°)	3487.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	247.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5
2.5°	6461.2	6497.8	6486.4	6474.9	6474.9	6459.0	6456.7	6433.8	6415.6	6385.9
5°	6543.5	6582.3	6577.7	6586.9	6616.5	6623.4	6630.2	6616.5	6580.0	6543.5
7.5°	6470.4	6513.8	6527.5	6582.3	6673.6	6755.9	6817.5	6842.7	6808.4	6755.9
10°	6223.7	6271.7	6319.6	6449.8	6612.0	6806.1	6970.6	7068.8	7061.9	7011.7
12.5°	5723.5	5773.8	5876.5	6130.1	6427.0	6769.6	7075.6	7281.2	7352.0	7315.4
15°	5323.8	5367.2	5444.9	5705.3	6091.2	6612.0	7114.4	7514.1	7694.6	7674.0
17.5°	5312.4	5330.7	5378.7	5502.0	5798.9	6365.3	7073.3	7742.5	8087.4	8085.1
20°	5513.4	5520.3	5547.7	5572.8	5741.8	6178.0	6968.3	7932.1	8528.2	8528.2
22.5°	5792.0	5787.5	5814.9	5792.0	5874.3	6162.0	6902.0	8098.8	9019.2	9055.8
25°	6210.0	6187.2	6180.3	6127.8	6143.8	6310.5	6975.1	8288.4	9601.6	9677.0
27.5°	6767.3	6730.7	6705.6	6584.6	6543.5	6616.5	7198.9	8516.8	10250.3	10380.5
30°	7493.6	7427.3	7390.8	7180.7	7032.2	7043.6	7537.0	8820.5	10928.6	11138.7
32.5°	8484.8	8382.0	8283.8	7938.9	7667.1	7578.1	7973.2	9240.8	11664.0	11999.8
35°	9594.8	9512.6	9407.5	8875.3	8457.4	8251.8	8562.4	9827.7	12525.1	13057.2
37.5°	10663.7	10592.9	10643.1	9926.0	9386.9	9087.8	9334.4	10615.7	13587.1	14372.8
40°	11769.1	11714.3	11721.1	11035.9	10407.9	10072.1	10270.8	11604.6	14804.4	15937.3
42.5°	12970.4	12929.3	12792.3	12184.8	11479.0	11166.1	11348.8	12746.6	16110.8	17718.7
45°	14315.7	14290.5	14162.6	13466.0	12657.5	12305.8	12552.5	14007.3	17424.1	19395.1
47.5°	15478.2	15498.7	15482.8	14895.8	14057.6	13541.4	13836.0	15322.9	18646.0	20971.0
50°	16037.7	16145.1	16302.7	16120.0	15599.2	15073.9	15131.0	16592.7	19810.8	22448.7
52.5°	15745.4	15948.7	16378.1	16670.4	16871.4	16761.8	16608.7	17853.5	20907.1	23782.6
55°	14656.0	14941.5	15654.0	16359.8	17385.3	18182.4	18383.3	19251.2	21976.0	24956.5
57.5°	12671.2	13134.9	13774.4	15201.8	16928.5	18869.8	20452.6	21190.3	23108.8	26210.4
60°	9268.2	9889.4	10684.2	12808.3	15329.7	18502.1	22213.5	24168.5	24719.0	27834.2
62.5°	5931.4	6315.1	7045.9	9046.6	11944.9	16617.9	22752.5	27891.3	27448.3	30497.3
65°	4060.8	4307.5	4976.7	6100.4	7722.0	12369.8	21309.1	30682.3	31783.2	34718.0
67.5°	2950.8	3138.1	3709.1	4693.5	5031.5	7320.0	16535.6	30554.4	35997.0	39066.6
70°	2151.5	2283.9	2763.6	3709.1	3871.3	4072.2	10017.3	25972.8	35905.6	40222.3
72.5°	1594.2	1685.5	2007.6	2877.8	3133.6	2749.9	4958.4	18876.7	30853.6	36380.7
75°	1153.4	1221.9	1459.4	2201.7	2507.8	2094.4	2473.5	11031.4	21521.5	25591.4
77.5°	881.6	934.1	1089.4	1612.5	2007.6	1571.3	1534.8	5074.9	10204.6	10254.8
80°	708.0	742.3	826.8	1135.1	1539.4	1176.2	1000.4	2048.7	3224.9	2729.3
82.5°	520.7	577.8	698.9	797.1	1100.9	810.8	609.8	1034.6	1226.5	1055.2
85°	296.9	335.7	422.5	571.0	703.5	495.6	349.4	459.1	571.0	468.2
87.5°	105.1	137.0	148.5	223.8	306.0	205.6	134.8	132.5	187.3	139.3
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°
6310.5	0°	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5	6310.5
6379.0	2.5°	6356.2	6344.8	6299.1	6237.4	6173.5	6111.8	6091.2	6047.8	6018.2	6002.2
6527.5	5°	6484.1	6447.5	6340.2	6203.2	6059.3	5904.0	5794.3	5693.8	5620.7	5552.2
6730.7	7.5°	6666.8	6602.8	6417.8	6178.0	5922.2	5664.1	5472.3	5326.1	5227.9	5164.0
6968.3	10°	6879.2	6781.0	6497.8	6139.2	5744.1	5374.1	5148.0	5022.4	4960.7	4926.4
7240.1	12.5°	7123.6	6984.3	6580.0	6050.1	5472.3	5049.8	4894.5	4857.9	4860.2	4862.5
7582.6	15°	7425.1	7230.9	6646.2	5856.0	5118.3	4800.8	4773.4	4832.8	4894.5	4924.2
7970.9	17.5°	7765.4	7491.3	6657.7	5536.2	4771.1	4640.9	4727.7	4855.6	4949.3	4990.4
8404.9	20°	8130.8	7756.2	6575.4	5084.0	4485.6	4510.8	4666.1	4830.5	4933.3	4985.8
8900.5	22.5°	8548.7	8039.4	6379.0	4609.0	4252.7	4369.2	4551.9	4711.7	4819.1	4871.6
9482.9	25°	9026.1	8356.9	6070.7	4209.3	4051.7	4209.3	4392.0	4524.5	4611.3	4659.2
10133.8	27.5°	9556.0	8688.1	5659.6	3891.8	3875.8	4044.8	4195.6	4298.4	4344.0	4380.6
10825.8	30°	10088.1	8989.5	5161.7	3652.0	3722.8	3882.7	3990.0	4035.7	4049.4	4056.3
11597.8	32.5°	10663.7	9249.9	4638.7	3453.3	3576.6	3725.1	3789.0	3809.6	3745.6	3702.2
12534.2	35°	11360.3	9528.6	4127.1	3295.7	3432.7	3560.6	3581.2	3562.9	3487.6	3398.5
13708.1	37.5°	12221.3	9875.7	3718.2	3183.8	3298.0	3382.5	3357.4	3352.8	3359.7	3254.6
15119.6	40°	13276.5	10327.9	3419.0	3097.0	3188.4	3206.6	3135.8	3174.7	3208.9	3049.0
16668.1	42.5°	14448.1	10873.8	3229.5	3037.6	3097.0	3053.6	2944.0	2987.4	2982.8	2772.7
18223.5	45°	15642.6	11467.6	3163.2	2994.2	3012.5	2925.7	2804.7	2816.1	2720.2	2530.6
19714.9	47.5°	16830.3	12104.8	3204.4	2957.7	2907.4	2809.2	2715.6	2665.3	2523.7	2382.1
21144.6	50°	17995.1	12774.0	3355.1	2884.6	2763.6	2706.5	2637.9	2548.9	2398.1	2277.1
22496.7	52.5°	19075.4	13447.8	3524.1	2763.6	2583.1	2617.4	2574.0	2471.2	2322.8	2199.4
23775.7	55°	20098.6	14121.5	3590.3	2596.8	2414.1	2539.7	2514.6	2325.0	2146.9	2046.4
25114.1	57.5°	21213.1	14932.3	3517.3	2384.4	2277.1	2450.7	2354.7	2144.6	2041.8	1966.5
26856.7	60°	22757.1	16204.5	3359.7	2121.8	2146.9	2318.2	2153.7	2067.0	1955.0	1870.5
29469.5	62.5°	25321.9	18577.5	3106.1	1861.4	1993.9	2121.8	2057.8	1971.0	1856.8	1774.6
33936.9	65°	29113.2	21875.5	2628.8	1658.1	1822.6	1929.9	1955.0	1868.3	1749.5	1662.7
37851.6	67.5°	32310.7	23944.7	1989.3	1489.1	1646.7	1774.6	1845.4	1760.9	1635.3	1550.8
38767.4	70°	32134.9	22441.9	1518.8	1322.4	1491.4	1621.6	1712.9	1646.7	1512.0	1432.0
35213.6	72.5°	28542.3	18773.9	1228.8	1153.4	1333.8	1461.7	1571.3	1521.1	1384.1	1306.4
25797.0	75°	20968.8	13326.7	982.1	982.1	1137.4	1295.0	1416.0	1384.1	1258.4	1203.6
10830.4	77.5°	8838.8	5591.1	769.7	815.4	945.5	1112.3	1263.0	1274.4	1164.8	1233.3
2864.0	80°	2350.2	1541.7	587.0	641.8	742.3	918.1	1098.6	1094.0	975.2	911.3
1064.3	82.5°	895.3	607.5	418.0	452.2	536.7	703.5	870.2	897.6	778.8	673.8
418.0	85°	344.9	260.4	258.1	271.8	312.9	465.9	657.8	680.6	587.0	497.9
116.5	87.5°	89.1	77.7	95.9	91.4	143.9	248.9	376.8	390.6	358.6	207.8
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>
6310.5
6020.4
5579.6
5177.7
4935.6
4867.1
4921.9
4999.5
4999.5
4885.3
4672.9
4394.3
4072.2
3716.0
3403.1
3261.5
3053.6
2770.4
2537.4
2382.1
2267.9
2201.7
2037.3
1959.6
1866.0
1774.6
1667.3
1553.1
1438.9
1306.4
1187.6
1119.1
847.3
673.8
513.9
296.9
0.0

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