

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: P941205

Luminaire Tested: **GALN-SB4C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941205
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-SB4C-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 28447 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

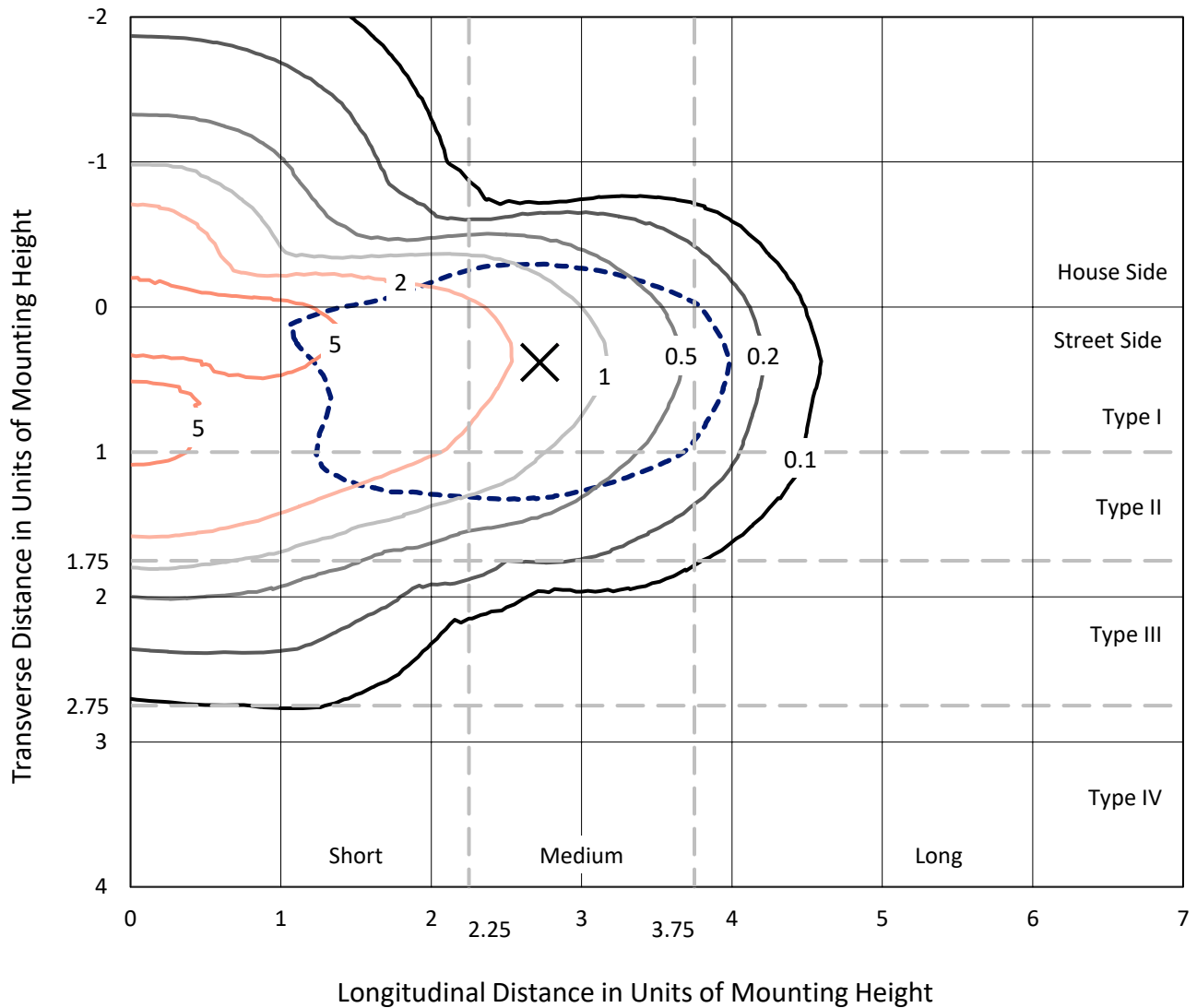
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

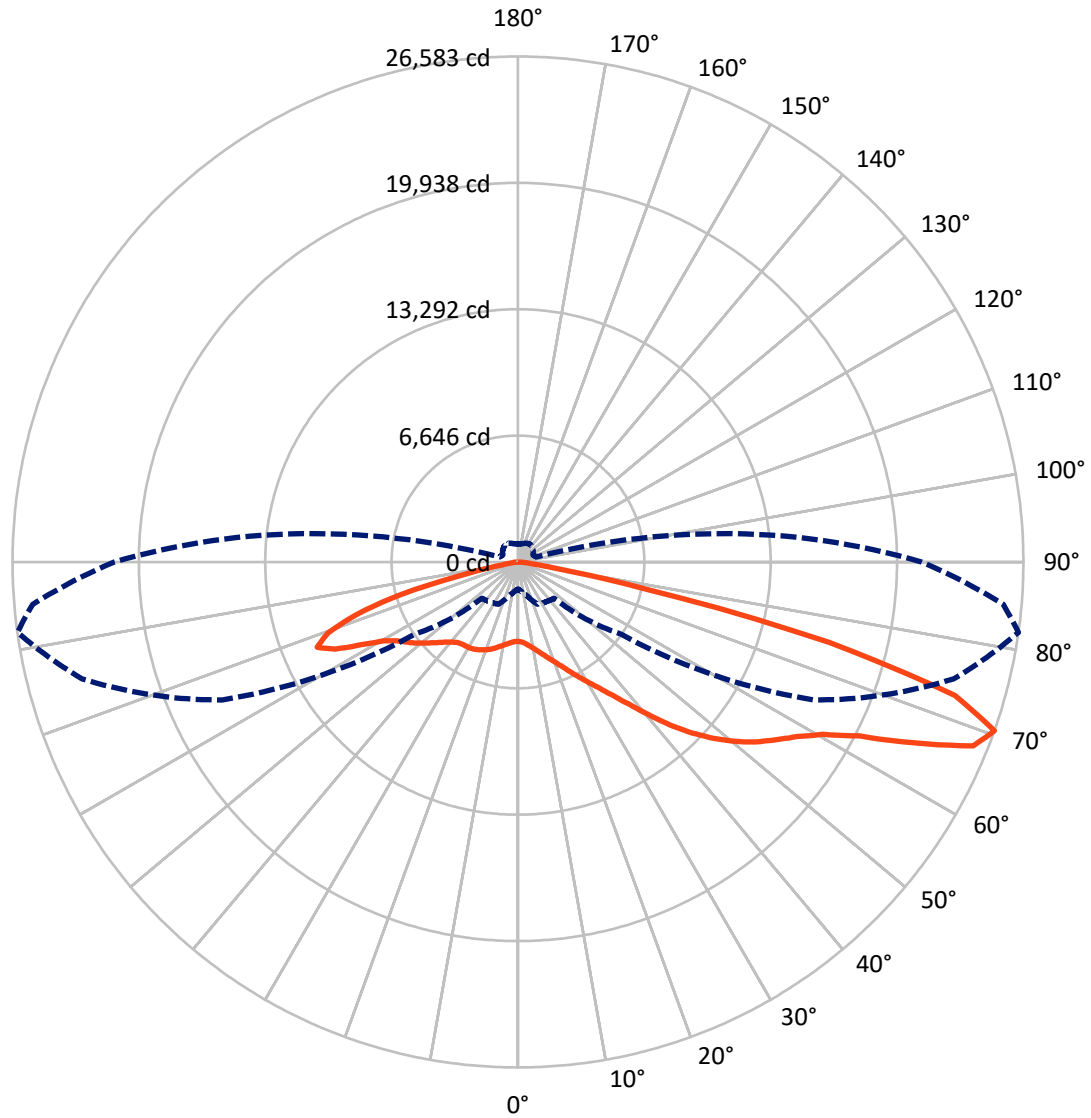
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	7012.9	0.0	7012.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21434.1	0.0	21434.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	28447.0	0.0	28447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.8	1.4
10°-20°	1131.4	4.0
20°-30°	1892.7	6.7
30°-40°	2956.8	10.4
40°-50°	4709.1	16.6
50°-60°	6553.3	23.0
60°-70°	6855.1	24.1
70°-80°	3582.8	12.6
80°-90°	372.0	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°	28447.0	100.0
0°-180°	28447.0	100.0

Coefficient of Utilization



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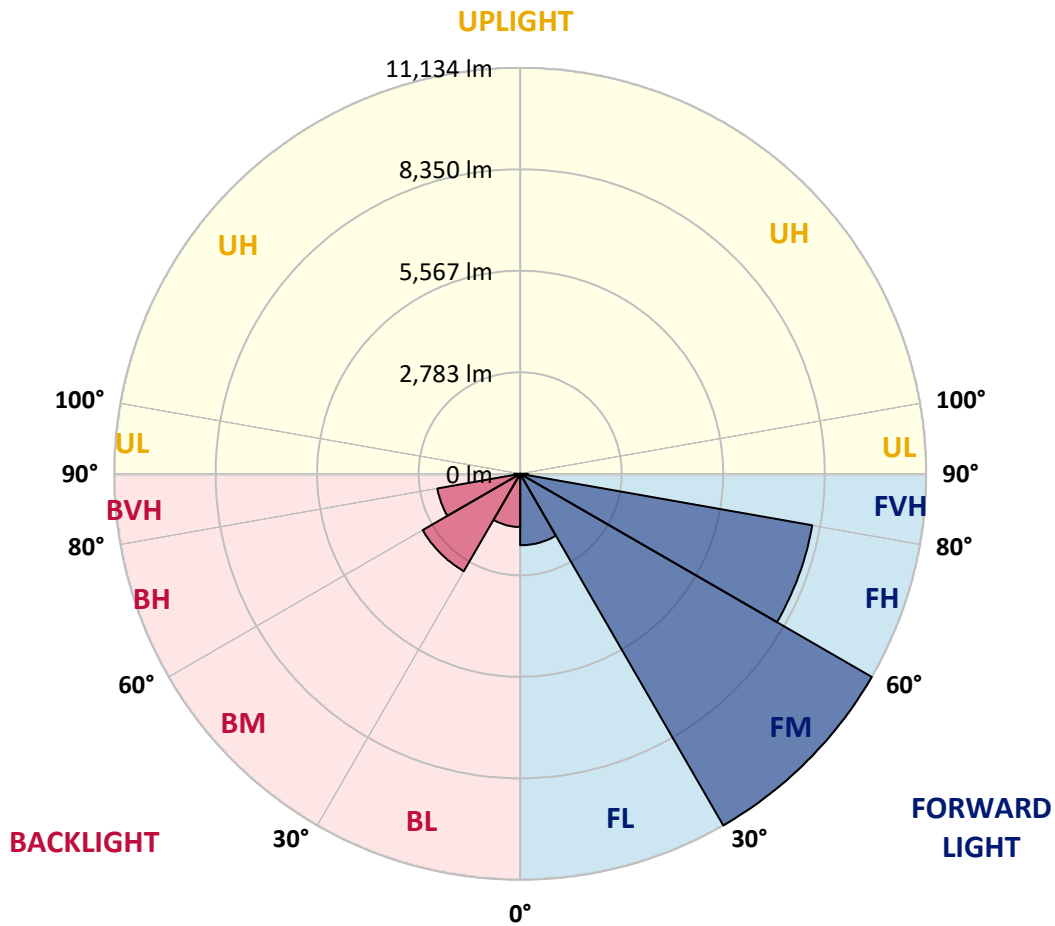
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.9	6.9			
FM (30°-60°)	11133.9	39.1			
FH (60°-80°)	8133.1	28.6			G4/12000
FVH (80°-90°)	208.3	0.7			G2/225
BL (0°-30°)	1458.9	5.1	B3/2500		
BM (30°-60°)	3085.4	10.8	B3/5000		
BH (60°-80°)	2304.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	163.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7
2.5°	4270.3	4294.5	4286.9	4279.4	4279.4	4268.8	4267.3	4252.2	4240.1	4220.5
5°	4324.7	4350.3	4347.3	4353.3	4373.0	4377.5	4382.0	4373.0	4348.8	4324.7
7.5°	4276.3	4305.0	4314.1	4350.3	4410.7	4465.0	4505.8	4522.4	4499.8	4465.0
10°	4113.3	4145.0	4176.7	4262.8	4369.9	4498.2	4606.9	4671.8	4667.3	4634.1
12.5°	3782.8	3816.0	3883.9	4051.4	4247.7	4474.1	4676.4	4812.2	4859.0	4834.9
15°	3518.6	3547.3	3598.6	3770.7	4025.8	4369.9	4702.0	4966.2	5085.4	5071.8
17.5°	3511.0	3523.1	3554.8	3636.3	3832.6	4206.9	4674.9	5117.1	5345.1	5343.5
20°	3643.9	3648.4	3666.5	3683.1	3794.8	4083.1	4605.4	5242.4	5636.4	5636.4
22.5°	3828.0	3825.0	3843.1	3828.0	3882.4	4072.6	4561.6	5352.6	5960.9	5985.1
25°	4104.3	4089.2	4084.6	4049.9	4060.5	4170.7	4609.9	5477.9	6345.8	6395.7
27.5°	4472.6	4448.4	4431.8	4351.8	4324.7	4373.0	4757.9	5628.8	6774.5	6860.6
30°	4952.6	4908.8	4884.7	4745.8	4647.7	4655.2	4981.3	5829.6	7222.8	7361.7
32.5°	5607.7	5539.8	5474.9	5246.9	5067.3	5008.4	5269.6	6107.3	7708.9	7930.8
35°	6341.3	6287.0	6217.5	5865.8	5589.6	5453.7	5659.0	6495.3	8278.0	8629.7
37.5°	7047.7	7001.0	7034.2	6560.2	6204.0	6006.2	6169.2	7016.1	8979.9	9499.1
40°	7778.3	7742.1	7746.6	7293.8	6878.7	6656.8	6788.1	7669.7	9784.4	10533.1
42.5°	8572.3	8545.2	8454.6	8053.1	7586.6	7379.8	7500.6	8424.4	10647.9	11710.5
45°	9461.4	9444.8	9360.3	8899.9	8365.5	8133.1	8296.1	9257.6	11515.8	12818.5
47.5°	10229.7	10243.3	10232.7	9844.8	9290.8	8949.7	9144.4	10127.1	12323.4	13860.0
50°	10599.5	10670.5	10774.6	10653.9	10309.7	9962.6	10000.3	10966.4	13093.2	14836.7
52.5°	10406.3	10540.7	10824.5	11017.7	11150.5	11078.1	10976.9	11799.6	13817.8	15718.2
55°	9686.3	9875.0	10346.0	10812.4	11490.1	12016.9	12149.8	12723.4	14524.2	16494.1
57.5°	8374.6	8681.0	9103.7	10047.1	11188.2	12471.3	13517.4	14004.9	15272.9	17322.8
60°	6125.5	6536.0	7061.3	8465.1	10131.6	12228.3	14681.2	15973.3	16337.1	18396.0
62.5°	3920.1	4173.7	4656.7	5979.0	7894.6	10983.0	15037.4	18433.7	18140.9	20156.1
65°	2683.9	2846.9	3289.2	4031.8	5103.5	8175.3	14083.4	20278.3	21005.9	22945.6
67.5°	1950.2	2074.0	2451.4	3102.0	3325.4	4837.9	10928.6	20193.8	23790.9	25819.6
70°	1421.9	1509.5	1826.5	2451.4	2558.6	2691.4	6620.6	17165.8	23730.5	26583.4
72.5°	1053.6	1114.0	1326.8	1901.9	2071.0	1817.4	3277.1	12475.8	20391.5	24044.5
75°	762.3	807.6	964.6	1455.1	1657.4	1384.2	1634.8	7290.8	14223.8	16913.7
77.5°	582.7	617.4	720.0	1065.7	1326.8	1038.5	1014.4	3354.1	6744.3	6777.6
80°	467.9	490.6	546.4	750.2	1017.4	777.4	661.2	1354.0	2131.4	1803.8
82.5°	344.2	381.9	461.9	526.8	727.6	535.9	403.0	683.8	810.6	697.4
85°	196.2	221.9	279.3	377.4	464.9	327.6	231.0	303.4	377.4	309.4
87.5°	69.4	90.6	98.1	147.9	202.3	135.9	89.1	87.5	123.8	92.1
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°
4170.7	0°	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7	4170.7
4216.0	2.5°	4200.9	4193.3	4163.1	4122.4	4080.1	4039.4	4025.8	3997.1	3977.5	3966.9
4314.1	5°	4285.4	4261.3	4190.3	4099.7	4004.6	3902.0	3829.5	3763.1	3714.8	3669.5
4448.4	7.5°	4406.2	4363.9	4241.6	4083.1	3914.1	3743.5	3616.7	3520.1	3455.2	3412.9
4605.4	10°	4546.5	4481.6	4294.5	4057.5	3796.3	3551.8	3402.4	3319.3	3278.6	3255.9
4785.0	12.5°	4708.1	4616.0	4348.8	3998.6	3616.7	3337.5	3234.8	3210.7	3212.2	3213.7
5011.5	15°	4907.3	4779.0	4392.6	3870.3	3382.7	3172.9	3154.8	3194.1	3234.8	3254.4
5268.1	17.5°	5132.2	4951.1	4400.1	3659.0	3153.3	3067.3	3124.6	3209.1	3271.0	3298.2
5554.9	20°	5373.7	5126.2	4345.8	3360.1	2964.6	2981.2	3083.9	3192.5	3260.5	3295.2
5882.4	22.5°	5650.0	5313.4	4216.0	3046.1	2810.6	2887.6	3008.4	3114.1	3185.0	3219.7
6267.3	25°	5965.5	5523.2	4012.2	2782.0	2677.8	2782.0	2902.7	2990.3	3047.6	3079.3
6697.6	27.5°	6315.7	5742.1	3740.5	2572.1	2561.6	2673.3	2772.9	2840.8	2871.0	2895.2
7154.9	30°	6667.4	5941.3	3411.4	2413.7	2460.4	2566.1	2637.1	2667.2	2676.3	2680.8
7665.1	32.5°	7047.7	6113.4	3065.7	2282.3	2363.8	2462.0	2504.2	2517.8	2475.5	2446.9
8284.0	35°	7508.1	6297.5	2727.6	2178.2	2268.7	2353.3	2366.9	2354.8	2305.0	2246.1
9059.9	37.5°	8077.2	6527.0	2457.4	2104.2	2179.7	2235.5	2218.9	2215.9	2220.4	2151.0
9992.7	40°	8774.6	6825.9	2259.7	2046.9	2107.2	2119.3	2072.5	2098.2	2120.8	2015.2
11016.2	42.5°	9549.0	7186.6	2134.4	2007.6	2046.9	2018.2	1945.7	1974.4	1971.4	1832.5
12044.1	45°	10338.4	7579.1	2090.6	1978.9	1991.0	1933.6	1853.6	1861.2	1797.8	1672.5
13029.8	47.5°	11123.3	8000.2	2117.8	1954.8	1921.6	1856.7	1794.8	1761.6	1668.0	1574.4
13974.7	50°	11893.2	8442.5	2217.4	1906.5	1826.5	1788.7	1743.4	1684.6	1585.0	1504.9
14868.4	52.5°	12607.2	8887.8	2329.1	1826.5	1707.2	1729.9	1701.2	1633.3	1535.1	1453.6
15713.7	55°	13283.4	9333.1	2372.9	1716.3	1595.5	1678.5	1661.9	1536.6	1418.9	1352.5
16598.2	57.5°	14020.0	9869.0	2324.6	1575.9	1504.9	1619.7	1556.3	1417.4	1349.5	1299.7
17749.9	60°	15040.4	10709.7	2220.4	1402.3	1418.9	1532.1	1423.4	1366.1	1292.1	1236.3
19476.8	62.5°	16735.6	12278.1	2052.9	1230.2	1317.8	1402.3	1360.0	1302.7	1227.2	1172.9
22429.3	65°	19241.3	14457.8	1737.4	1095.9	1204.6	1275.5	1292.1	1234.8	1156.3	1098.9
25016.6	67.5°	21354.6	15825.4	1314.8	984.2	1088.3	1172.9	1219.7	1163.8	1080.8	1024.9
25621.9	70°	21238.3	14832.1	1003.8	874.0	985.7	1071.7	1132.1	1088.3	999.3	946.4
23273.1	72.5°	18863.9	12407.9	812.1	762.3	881.5	966.1	1038.5	1005.3	914.7	863.4
17049.5	75°	13858.5	8807.8	649.1	649.1	751.7	855.9	935.9	914.7	831.7	795.5
7157.9	77.5°	5841.7	3695.2	508.7	538.9	624.9	735.1	834.7	842.3	769.8	815.1
1892.9	80°	1553.3	1018.9	387.9	424.2	490.6	606.8	726.1	723.0	644.5	602.3
703.4	82.5°	591.7	401.5	276.2	298.9	354.7	464.9	575.1	593.2	514.7	445.3
276.2	85°	227.9	172.1	170.6	179.6	206.8	307.9	434.7	449.8	387.9	329.1
77.0	87.5°	58.9	51.3	63.4	60.4	95.1	164.5	249.1	258.1	237.0	137.4
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>
4170.7
3979.0
3687.7
3422.0
3262.0
3216.7
3252.9
3304.2
3304.2
3228.8
3088.4
2904.2
2691.4
2455.9
2249.1
2155.5
2018.2
1831.0
1677.0
1574.4
1498.9
1455.1
1346.5
1295.1
1233.2
1172.9
1101.9
1026.4
951.0
863.4
784.9
739.6
560.0
445.3
339.6
196.2
0.0

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