

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: P954363

Luminaire Tested: **GALN-SB7C-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7C-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50845 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

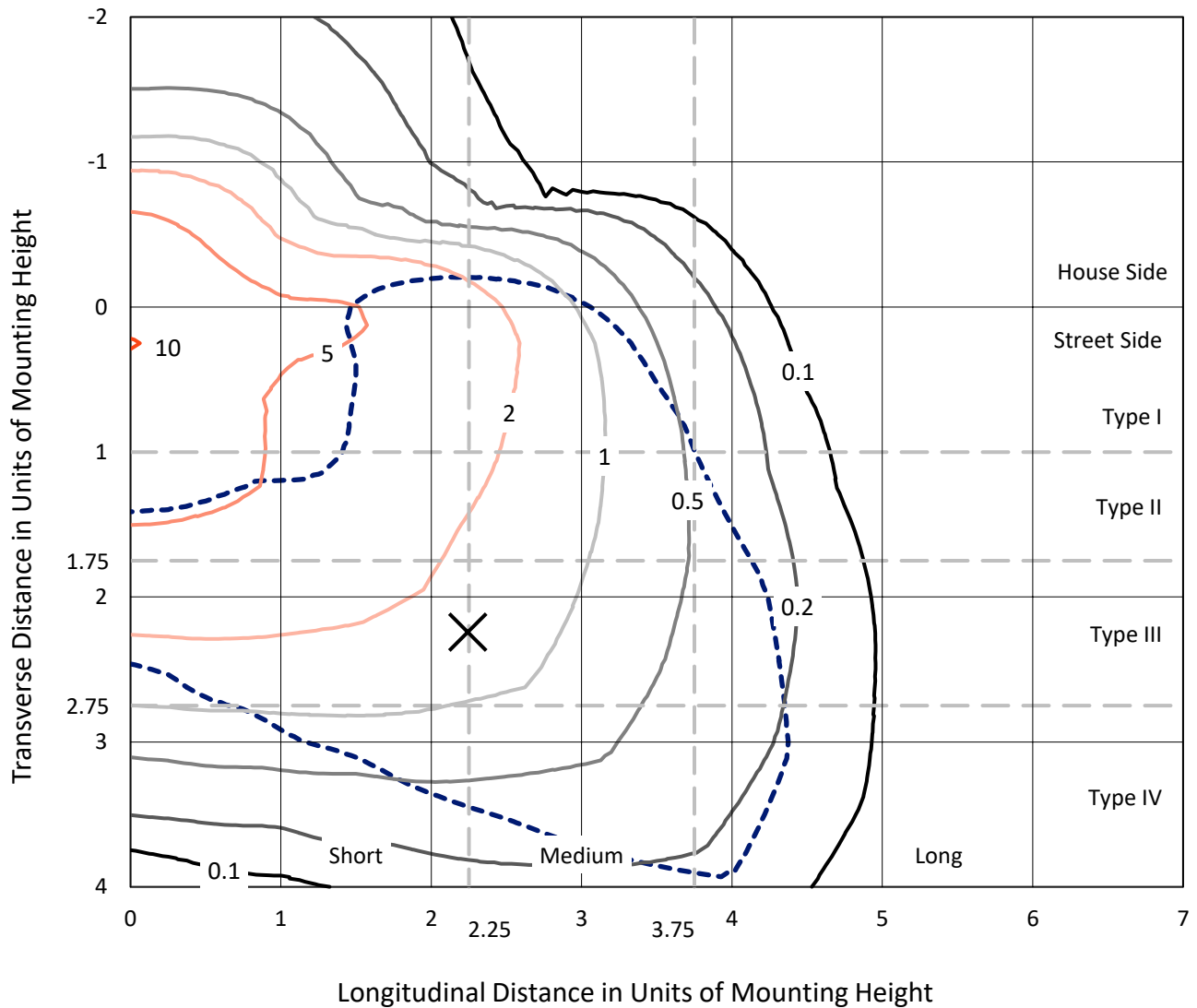
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

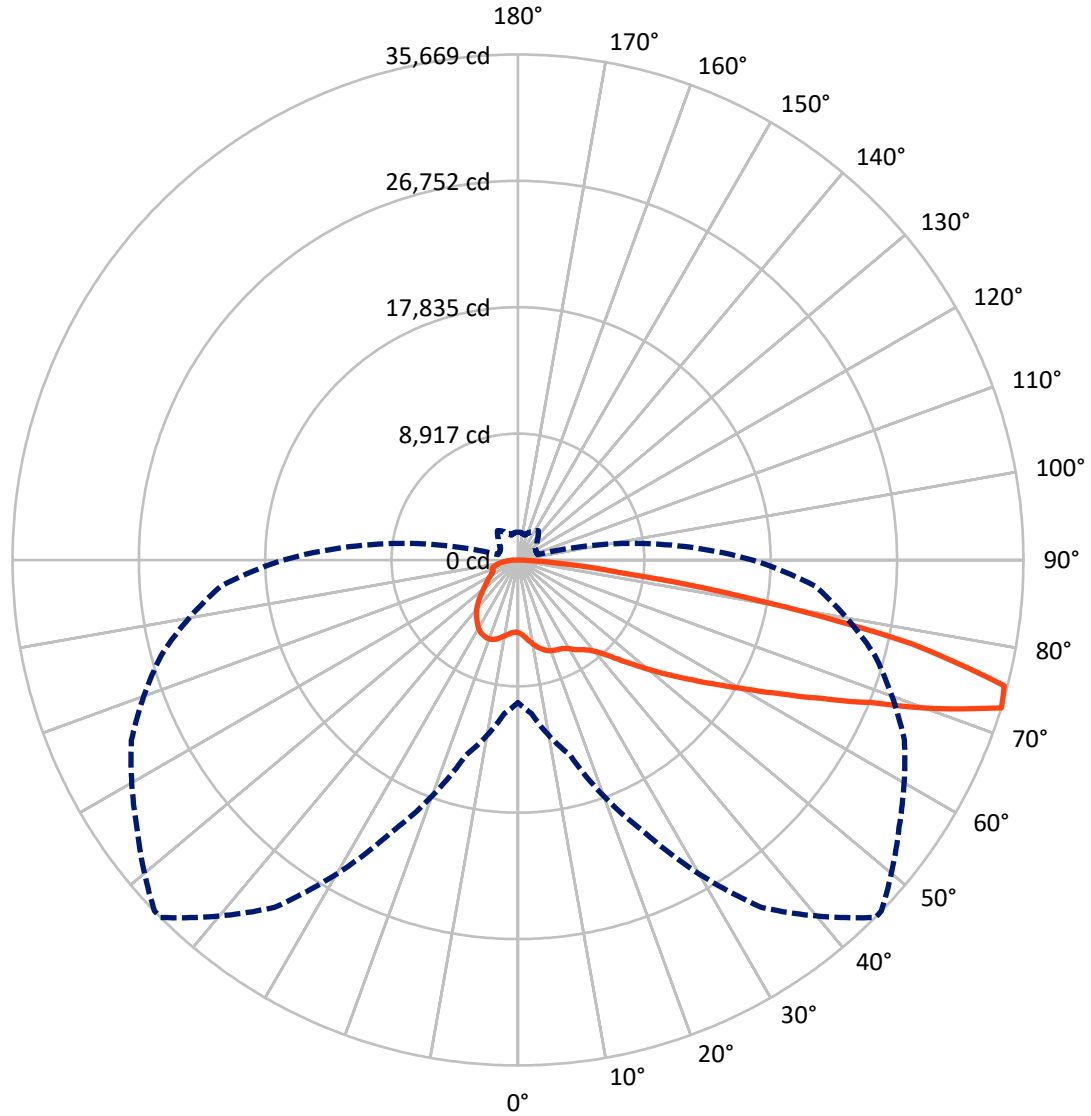
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11494.3	0.0	11494.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	39350.7	0.0	39350.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	50845.0	0.0	50845.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.1	1.0
10°-20°	1740.6	3.4
20°-30°	3027.9	6.0
30°-40°	4340.6	8.5
40°-50°	6111.9	12.0
50°-60°	9361.6	18.4
60°-70°	13561.7	26.7
70°-80°	10829.8	21.3
80°-90°	1348.8	2.7
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°	50845.0	100.0
0°-180°	50845.0	100.0



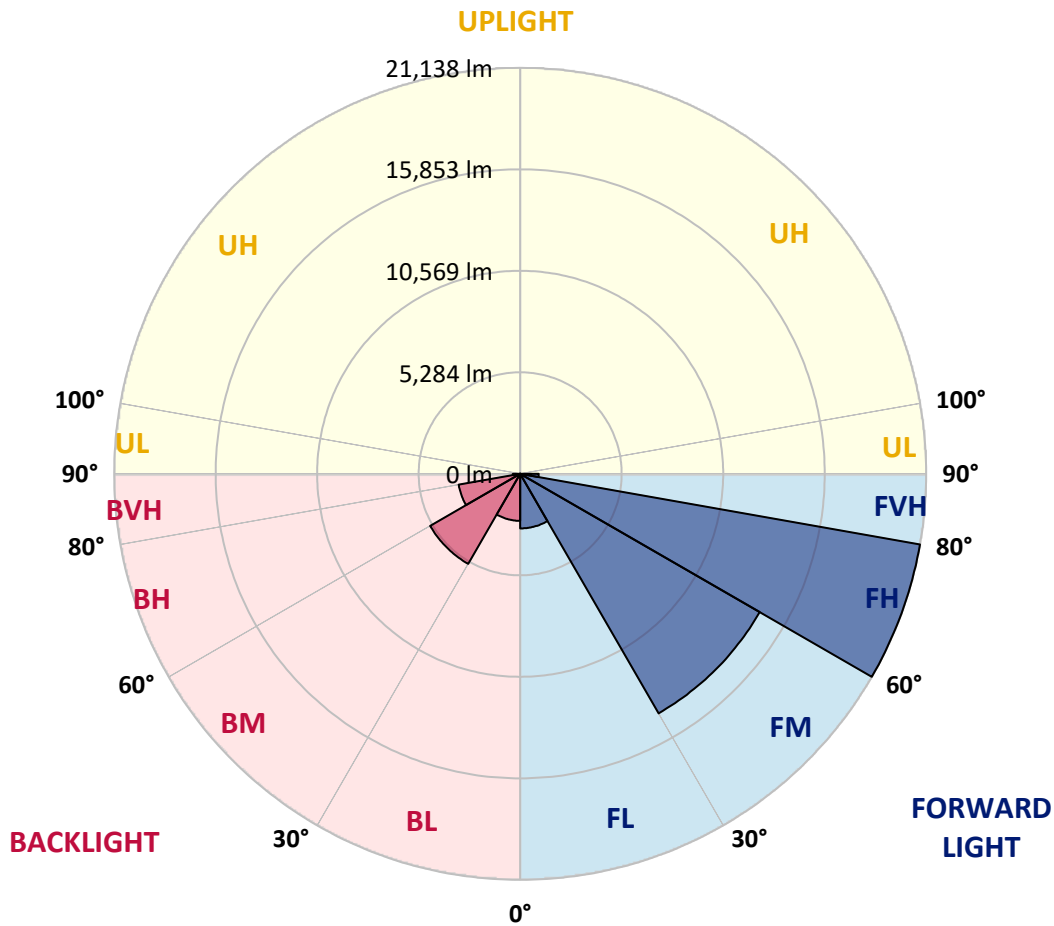
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2843.3	5.6			
FM (30°-60°)	14402.0	28.3			
FH (60°-80°)	21137.8	41.6			G5
FVH (80°-90°)	967.6	1.9			G5
BL (0°-30°)	2447.2	4.8	B3/2500		
BM (30°-60°)	5412.2	10.6	B4/8500		
BH (60°-80°)	3253.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	381.2	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3
2.5°	5330.2	5365.0	5332.8	5303.4	5290.0	5255.2	5252.5	5231.1	5217.7	5180.2
5°	5702.5	5748.0	5694.4	5635.5	5581.9	5496.2	5485.5	5423.9	5354.3	5273.9
7.5°	6123.0	6163.2	6101.6	6013.2	5919.4	5777.5	5774.8	5662.3	5552.5	5415.9
10°	6489.9	6543.5	6460.5	6339.9	6222.1	6061.4	6042.6	5914.1	5774.8	5598.0
12.5°	6814.0	6851.5	6771.2	6623.9	6487.3	6326.5	6302.4	6160.5	6005.1	5804.2
15°	7071.2	7119.4	7012.2	6854.2	6709.6	6551.5	6530.1	6401.5	6246.2	6034.6
17.5°	7239.9	7280.1	7170.3	6993.5	6854.2	6723.0	6706.9	6599.8	6463.1	6248.9
20°	7304.2	7347.0	7231.9	7052.4	6923.8	6822.1	6814.0	6736.4	6642.6	6447.1
22.5°	7368.5	7408.6	7258.7	7071.2	6958.7	6894.4	6891.7	6840.8	6803.3	6642.6
25°	7628.3	7639.0	7438.1	7167.6	7006.9	6950.6	6948.0	6945.3	6961.3	6835.5
27.5°	7853.3	7850.6	7679.2	7424.7	7175.6	7057.8	7055.1	7081.9	7132.8	7028.3
30°	8182.7	8153.3	7949.7	7684.5	7456.9	7274.7	7258.7	7234.5	7274.7	7191.7
32.5°	8881.8	8788.1	8458.6	7987.2	7689.9	7550.6	7529.2	7379.2	7395.3	7344.4
35°	9883.6	9760.3	9321.1	8560.4	7979.2	7781.0	7770.2	7580.1	7547.9	7502.4
37.5°	11075.5	10922.8	10411.2	9390.7	8477.4	8048.8	8032.7	7861.3	7730.1	7681.9
40°	12272.8	12079.9	11656.7	10403.2	9211.3	8496.1	8445.2	8185.4	8035.4	7955.1
42.5°	13435.2	13274.5	12912.9	11538.9	10116.6	9149.7	9037.2	8592.5	8480.0	8405.0
45°	14463.7	14319.1	14053.9	12752.2	11177.3	10038.9	9929.1	9203.2	9168.4	9168.4
47.5°	15299.4	15267.3	14986.0	13989.7	12428.1	11051.4	10861.2	10052.3	10146.0	10290.7
50°	16226.2	16137.8	15837.8	15208.4	13898.6	12211.1	12055.8	11094.2	11445.1	11841.5
52.5°	17077.9	17126.1	16791.3	16478.0	15559.2	13504.8	13231.6	12323.6	13081.6	13737.9
55°	17953.8	17956.5	17862.7	17819.9	17300.2	14935.2	14635.2	13802.2	15007.5	15821.7
57.5°	18776.1	18781.4	18920.7	19298.4	19319.8	16585.1	16244.9	15618.2	17147.6	17977.9
60°	19510.0	19547.5	19927.8	20811.7	21095.6	18476.1	18154.7	17763.6	19360.0	20195.7
62.5°	19756.4	19893.0	20739.4	21995.6	22850.0	20795.6	20479.6	20246.6	21684.9	22461.7
65°	19338.6	19651.9	21288.5	22973.2	24655.3	23551.8	23238.4	22984.0	24100.9	24832.1
67.5°	18312.7	18717.2	21256.3	23999.1	26846.3	26867.7	26575.8	25978.5	26691.0	26972.2
70°	15610.1	16215.5	19384.1	24382.1	29361.4	31402.4	31121.1	29583.7	29275.7	27915.0
72.5°	10057.7	10871.9	14273.6	21229.6	29921.2	35669.2	35653.1	32838.0	30092.6	26082.9
75°	3669.5	4167.7	6631.9	13325.4	25116.0	35452.2	35556.7	32280.9	27470.4	20147.5
77.5°	1336.6	1462.4	2164.2	5121.2	15446.7	28445.4	28662.3	25807.1	19552.8	10111.2
80°	701.8	771.4	1108.9	1987.4	6618.5	16893.1	17233.3	15336.9	9189.8	3045.4
82.5°	388.4	420.5	621.4	1079.4	2981.1	7223.8	7427.4	6058.7	3232.9	1291.0
85°	208.9	222.3	292.0	589.3	1457.1	2504.4	2560.6	1810.6	1288.3	758.0
87.5°	61.6	75.0	96.4	187.5	570.5	562.5	575.9	358.9	508.9	383.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5129.3	0°	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3	5129.3
5169.4	2.5°	5153.4	5145.3	5115.9	5102.5	5086.4	5083.7	5097.1	5099.8	5102.5	5105.2
5228.4	5°	5201.6	5174.8	5148.0	5131.9	5137.3	5140.0	5166.8	5185.5	5198.9	5209.6
5338.2	7.5°	5295.3	5273.9	5228.4	5225.7	5233.7	5257.8	5292.7	5335.5	5359.6	5378.4
5480.2	10°	5434.6	5394.4	5340.9	5348.9	5365.0	5399.8	5472.1	5506.9	5547.1	5581.9
5654.3	12.5°	5576.6	5541.8	5480.2	5485.5	5512.3	5573.9	5643.5	5686.4	5713.2	5740.0
5841.7	15°	5761.4	5699.8	5632.8	5632.8	5681.0	5748.0	5780.1	5815.0	5831.0	5860.5
6042.6	17.5°	5951.6	5871.2	5782.8	5777.5	5836.4	5868.5	5887.3	5892.6	5898.0	5930.1
6238.2	20°	6141.7	6053.3	5927.5	5916.7	5930.1	5924.8	5922.1	5916.7	5924.8	5965.0
6439.0	22.5°	6329.2	6227.4	6053.3	6005.1	5967.6	5916.7	5914.1	5911.4	5916.7	5956.9
6656.0	25°	6548.9	6425.7	6192.6	6048.0	5922.1	5852.5	5860.5	5863.2	5868.5	5900.7
6881.0	27.5°	6787.2	6650.6	6321.2	6034.6	5806.9	5758.7	5745.3	5753.4	5772.1	5823.0
7106.0	30°	7025.6	6864.9	6439.0	5981.0	5662.3	5595.3	5552.5	5571.2	5630.1	5681.0
7301.5	32.5°	7242.6	7081.9	6532.8	5863.2	5477.5	5373.0	5316.8	5340.9	5399.8	5418.5
7518.5	35°	7497.0	7314.9	6573.0	5675.7	5276.6	5115.9	5040.9	5006.1	5035.5	5016.8
7772.9	37.5°	7781.0	7590.8	6567.6	5429.3	5040.9	4856.1	4751.6	4620.4	4558.8	4494.5
8147.9	40°	8201.5	7928.3	6503.3	5131.9	4748.9	4580.2	4392.7	4170.4	4031.1	3905.2
8753.2	42.5°	8774.7	8397.0	6385.5	4805.2	4419.5	4261.4	4007.0	3747.2	3527.5	3318.6
9672.0	45°	9629.1	9010.4	6238.2	4457.0	4063.2	3907.9	3632.0	3340.1	3091.0	2823.1
10976.4	47.5°	10861.2	9835.3	6098.9	4060.6	3688.3	3546.3	3297.2	3026.7	2732.0	2472.2
12862.0	50°	12554.0	11019.2	5970.3	3674.9	3318.6	3211.5	3013.3	2737.4	2440.1	2231.2
15071.8	52.5°	14707.5	12629.0	5916.7	3302.6	2973.1	2932.9	2774.9	2517.8	2236.5	2059.7
17648.4	55°	17179.7	14554.8	5916.7	2946.3	2670.4	2683.8	2574.0	2335.6	2091.9	1933.9
20305.5	57.5°	19702.8	16504.7	5809.6	2616.9	2413.3	2469.5	2399.9	2191.0	1971.4	1808.0
23099.1	60°	22027.7	18138.6	5375.7	2316.9	2185.6	2274.0	2228.5	2049.0	1781.2	1644.6
25434.8	62.5°	23814.3	19060.0	4540.0	2078.5	1998.1	2099.9	2075.8	1861.5	1746.4	1690.1
27352.5	65°	24708.9	18910.0	3471.3	1866.9	1840.1	1998.1	1947.2	1939.2	1848.1	1783.9
27976.6	67.5°	24159.8	17619.0	2517.8	1711.5	1749.0	1904.4	2099.9	2132.1	1963.3	1837.4
26219.5	70°	21751.9	15283.4	1874.9	1564.2	1633.9	1907.1	2394.6	2231.2	1925.8	1778.5
21028.7	72.5°	16547.6	11396.9	1454.4	1408.9	1483.9	1920.5	2525.8	2185.6	1818.7	1966.0
13100.4	75°	9463.0	6256.9	1167.8	1218.7	1296.4	1794.6	2458.8	2067.8	1735.6	1805.3
5190.9	77.5°	3607.9	2405.3	964.2	1031.2	1041.9	1566.9	2351.7	2059.7	1652.6	1612.4
1556.2	80°	1250.8	940.1	798.2	819.6	806.2	1392.8	2255.3	1791.9	1352.6	1210.7
642.8	82.5°	511.6	468.7	632.1	605.3	573.2	1082.1	1821.4	1465.1	1106.2	977.6
310.7	85°	222.3	297.3	417.8	367.0	332.1	750.0	1459.8	1240.1	934.8	806.2
101.8	87.5°	45.5	112.5	176.8	166.1	171.4	500.9	1036.6	881.2	661.6	495.5
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>
5129.3
5115.9
5215.0
5383.7
5573.9
5750.7
5871.2
5940.8
5981.0
5983.7
5943.5
5873.9
5737.3
5485.5
5075.7
4534.7
3913.2
3299.9
2791.0
2442.8
2217.8
2046.4
1917.8
1781.2
1623.2
1671.4
1762.4
1816.0
1754.4
1949.9
1805.3
1470.5
1170.5
966.9
803.5
388.4
0.0

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