

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: P954195

Luminaire Tested: **GALN-SB7C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954195
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53156 lumens
Efficiency: N/A
Efficacy: 151.7 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

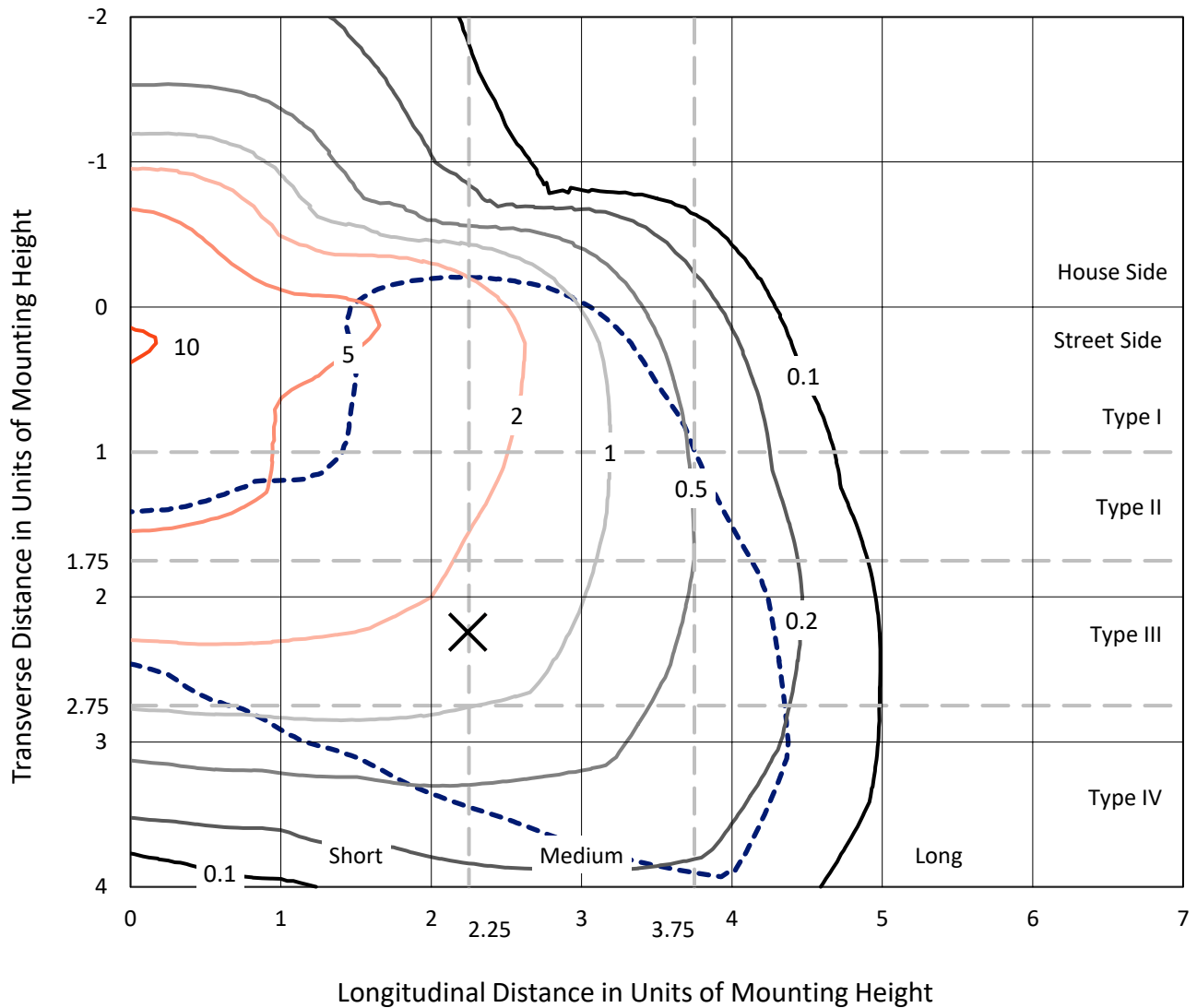
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

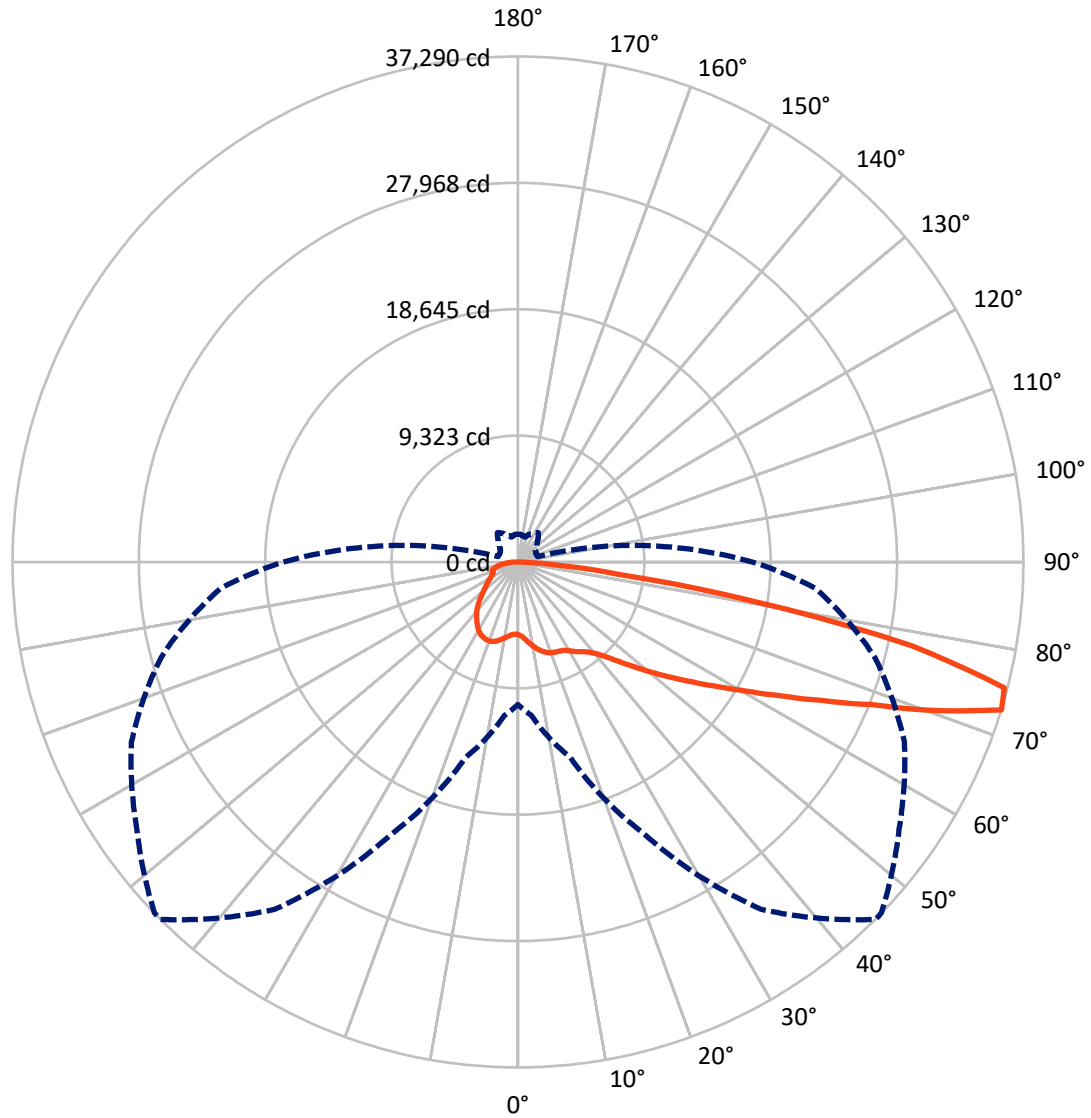
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	12016.8	0.0	12016.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	41139.2	0.0	41139.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	53156.0	0.0	53156.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.8	1.0
10°-20°	1819.7	3.4
20°-30°	3165.5	6.0
30°-40°	4537.9	8.5
40°-50°	6389.7	12.0
50°-60°	9787.1	18.4
60°-70°	14178.1	26.7
70°-80°	11322.0	21.3
80°-90°	1410.1	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°	53156.0	100.0
0°-180°	53156.0	100.0



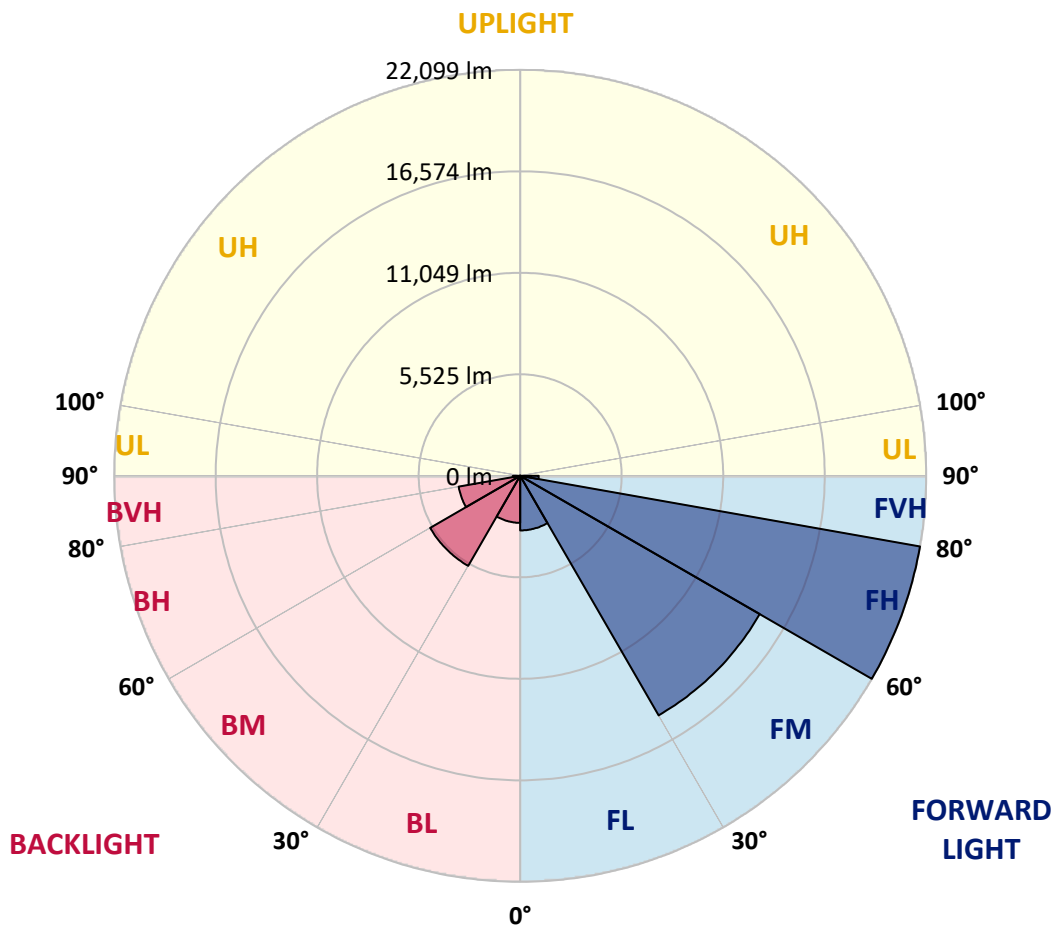
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.6	5.6			
FM (30°-60°)	15056.5	28.3			
FH (60°-80°)	22098.5	41.6			G5
FVH (80°-90°)	1011.6	1.9			G5
BL (0°-30°)	2558.5	4.8	B4/5000		
BM (30°-60°)	5658.2	10.6	B4/8500		
BH (60°-80°)	3401.6	6.4	B4/5000		G4/5000
BVH (80°-90°)	398.5	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°	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4
2.5°	5572.4	5608.8	5575.2	5544.4	5530.4	5494.0	5491.2	5468.8	5454.8	5415.6
5°	5961.7	6009.3	5953.3	5891.6	5835.6	5746.0	5734.8	5670.4	5597.6	5513.6
7.5°	6401.3	6443.3	6378.9	6286.5	6188.5	6040.1	6037.3	5919.6	5804.8	5662.0
10°	6784.9	6840.9	6754.1	6628.1	6504.9	6336.9	6317.3	6182.9	6037.3	5852.4
12.5°	7123.7	7162.9	7078.9	6924.9	6782.1	6614.1	6588.9	6440.5	6278.1	6068.1
15°	7392.6	7443.0	7331.0	7165.7	7014.5	6849.3	6826.9	6692.5	6530.1	6308.9
17.5°	7569.0	7611.0	7496.2	7311.4	7165.7	7028.5	7011.7	6899.7	6756.9	6532.9
20°	7636.2	7681.0	7560.6	7373.0	7238.5	7132.1	7123.7	7042.5	6944.5	6740.1
22.5°	7703.4	7745.4	7588.6	7392.6	7275.0	7207.7	7204.9	7151.7	7112.5	6944.5
25°	7975.0	7986.2	7776.2	7493.4	7325.4	7266.5	7263.7	7260.9	7277.8	7146.1
27.5°	8210.2	8207.4	8028.2	7762.2	7501.8	7378.6	7375.8	7403.8	7457.0	7347.8
30°	8554.6	8523.8	8311.0	8033.8	7795.8	7605.4	7588.6	7563.4	7605.4	7518.6
32.5°	9285.5	9187.5	8843.1	8350.2	8039.4	7893.8	7871.4	7714.6	7731.4	7678.2
35°	10332.8	10204.0	9744.7	8949.5	8341.8	8134.6	8123.4	7924.6	7891.0	7843.4
37.5°	11578.9	11419.3	10884.4	9817.5	8862.7	8414.6	8397.8	8218.6	8081.4	8031.0
40°	12830.6	12629.0	12186.5	10876.0	9629.9	8882.3	8829.1	8557.4	8400.6	8316.6
42.5°	14045.9	13877.9	13499.8	12063.3	10576.4	9565.5	9447.9	8983.1	8865.5	8787.1
45°	15121.1	14969.9	14692.7	13331.8	11685.3	10495.2	10380.4	9621.5	9585.1	9585.1
47.5°	15994.8	15961.2	15667.2	14625.5	12993.0	11553.7	11354.9	10509.2	10607.2	10758.4
50°	16963.7	16871.3	16557.7	15899.6	14530.3	12766.2	12603.8	11598.5	11965.3	12379.7
52.5°	17854.2	17904.6	17554.5	17226.9	16266.4	14118.7	13833.0	12883.8	13676.2	14362.3
55°	18769.8	18772.6	18674.6	18629.8	18086.6	15614.0	15300.4	14429.5	15689.6	16540.9
57.5°	19629.5	19635.1	19780.7	20175.5	20197.9	17338.9	16983.3	16328.0	17927.0	18795.0
60°	20396.7	20435.9	20833.6	21757.6	22054.5	19315.9	18979.8	18571.0	20239.9	21113.6
62.5°	20654.4	20797.2	21682.0	22995.3	23888.6	21740.8	21410.4	21166.8	22670.5	23482.6
65°	20217.5	20545.2	22256.1	24017.4	25776.0	24622.3	24294.6	24028.6	25196.3	25960.8
67.5°	19145.0	19567.9	22222.5	25089.9	28066.5	28088.9	27783.7	27159.3	27904.1	28198.1
70°	16319.6	16952.5	20265.1	25490.3	30695.9	32829.7	32535.7	30928.3	30606.3	29183.8
72.5°	10514.8	11366.1	14922.3	22194.5	31281.2	37290.4	37273.6	34330.6	31460.4	27268.5
75°	3836.3	4357.1	6933.3	13931.1	26257.6	37063.6	37172.8	33748.2	28719.0	21063.2
77.5°	1397.3	1528.9	2262.6	5354.0	16148.8	29738.3	29965.1	26980.0	20441.5	10570.8
80°	733.7	806.5	1159.3	2077.8	6919.3	17660.9	18016.6	16034.0	9607.5	3183.8
82.5°	406.0	439.6	649.6	1128.5	3116.6	7552.2	7765.0	6334.1	3379.9	1349.7
85°	218.4	232.4	305.2	616.0	1523.3	2618.2	2677.0	1892.9	1346.9	792.5
87.5°	64.4	78.4	100.8	196.0	596.4	588.0	602.0	375.2	532.0	400.4
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°
5362.4	0°	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4
5404.4	2.5°	5387.6	5379.2	5348.4	5334.4	5317.6	5314.8	5328.8	5331.6	5334.4	5337.2
5466.0	5°	5438.0	5410.0	5382.0	5365.2	5370.8	5373.6	5401.6	5421.2	5435.2	5446.4
5580.8	7.5°	5536.0	5513.6	5466.0	5463.2	5471.6	5496.8	5533.2	5578.0	5603.2	5622.8
5729.2	10°	5681.6	5639.6	5583.6	5592.0	5608.8	5645.2	5720.8	5757.2	5799.2	5835.6
5911.2	12.5°	5830.0	5793.6	5729.2	5734.8	5762.8	5827.2	5900.0	5944.8	5972.9	6000.9
6107.3	15°	6023.3	5958.9	5888.8	5888.8	5939.2	6009.3	6042.9	6079.3	6096.1	6126.9
6317.3	17.5°	6222.1	6138.1	6045.7	6040.1	6101.7	6135.3	6154.9	6160.5	6166.1	6199.7
6521.7	20°	6420.9	6328.5	6196.9	6185.7	6199.7	6194.1	6191.3	6185.7	6194.1	6236.1
6731.7	22.5°	6616.9	6510.5	6328.5	6278.1	6238.9	6185.7	6182.9	6180.1	6185.7	6227.7
6958.5	25°	6846.5	6717.7	6474.1	6322.9	6191.3	6118.5	6126.9	6129.7	6135.3	6168.9
7193.7	27.5°	7095.7	6952.9	6608.5	6308.9	6070.9	6020.5	6006.5	6014.9	6034.5	6087.7
7429.0	30°	7345.0	7176.9	6731.7	6252.9	5919.6	5849.6	5804.8	5824.4	5886.0	5939.2
7633.4	32.5°	7571.8	7403.8	6829.7	6129.7	5726.4	5617.2	5558.4	5583.6	5645.2	5664.8
7860.2	35°	7837.8	7647.4	6871.7	5933.6	5516.4	5348.4	5270.0	5233.6	5264.4	5244.8
8126.2	37.5°	8134.6	7935.8	6866.1	5676.0	5270.0	5076.8	4967.6	4830.4	4766.0	4698.8
8518.2	40°	8574.2	8288.6	6798.9	5365.2	4964.8	4788.4	4592.3	4359.9	4214.3	4082.7
9151.1	42.5°	9173.5	8778.7	6675.7	5023.6	4620.3	4455.1	4189.1	3917.5	3687.9	3469.5
10111.6	45°	10066.8	9419.9	6521.7	4659.6	4247.9	4085.5	3797.1	3491.9	3231.4	2951.4
11475.3	47.5°	11354.9	10282.4	6376.1	4245.1	3855.9	3707.5	3447.1	3164.2	2856.2	2584.6
13446.6	50°	13124.6	11520.1	6241.7	3841.9	3469.5	3357.5	3150.2	2861.8	2551.0	2332.6
15756.8	52.5°	15376.0	13203.0	6185.7	3452.7	3108.2	3066.2	2901.0	2632.2	2338.2	2153.4
18450.6	55°	17960.6	15216.4	6185.7	3080.2	2791.8	2805.8	2691.0	2441.8	2187.0	2021.8
21228.4	57.5°	20598.4	17254.9	6073.7	2735.8	2523.0	2581.8	2509.0	2290.6	2061.0	1890.1
24149.0	60°	23028.9	18963.0	5620.0	2422.2	2285.0	2377.4	2329.8	2142.2	1862.1	1719.3
26590.8	62.5°	24896.7	19926.3	4746.4	2173.0	2089.0	2195.4	2170.2	1946.1	1825.7	1766.9
28595.8	65°	25832.0	19769.5	3629.1	1951.7	1923.7	2089.0	2035.8	2027.4	1932.1	1864.9
29248.2	67.5°	25257.9	18419.8	2632.2	1789.3	1828.5	1991.0	2195.4	2229.0	2052.6	1920.9
27411.3	70°	22740.5	15978.0	1960.1	1635.3	1708.1	1993.8	2503.4	2332.6	2013.4	1859.3
21984.5	72.5°	17299.7	11914.9	1520.5	1472.9	1551.3	2007.8	2640.6	2285.0	1901.3	2055.4
13695.8	75°	9893.1	6541.3	1220.9	1274.1	1355.3	1876.1	2570.6	2161.8	1814.5	1887.3
5426.8	77.5°	3771.9	2514.6	1008.1	1078.1	1089.3	1638.1	2458.6	2153.4	1727.7	1685.7
1626.9	80°	1307.7	982.9	834.5	856.9	842.9	1456.1	2357.8	1873.3	1414.1	1265.7
672.1	82.5°	534.8	490.0	660.9	632.8	599.2	1131.3	1904.1	1531.7	1156.5	1022.1
324.8	85°	232.4	310.8	436.8	383.6	347.2	784.1	1526.1	1296.5	977.3	842.9
106.4	87.5°	47.6	117.6	184.8	173.6	179.2	523.6	1083.7	921.3	691.7	518.0
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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180°
5362.4
5348.4
5452.0
5628.4
5827.2
6012.1
6138.1
6210.9
6252.9
6255.7
6213.7
6140.9
5998.1
5734.8
5306.4
4740.8
4091.1
3449.9
2917.8
2553.8
2318.6
2139.4
2005.0
1862.1
1696.9
1747.3
1842.5
1898.5
1834.1
2038.6
1887.3
1537.3
1223.7
1010.9
840.1
406.0
0.0

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