

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: P951696

Luminaire Tested: **GALN-SB5D-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951696
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-SB5D-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51303 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

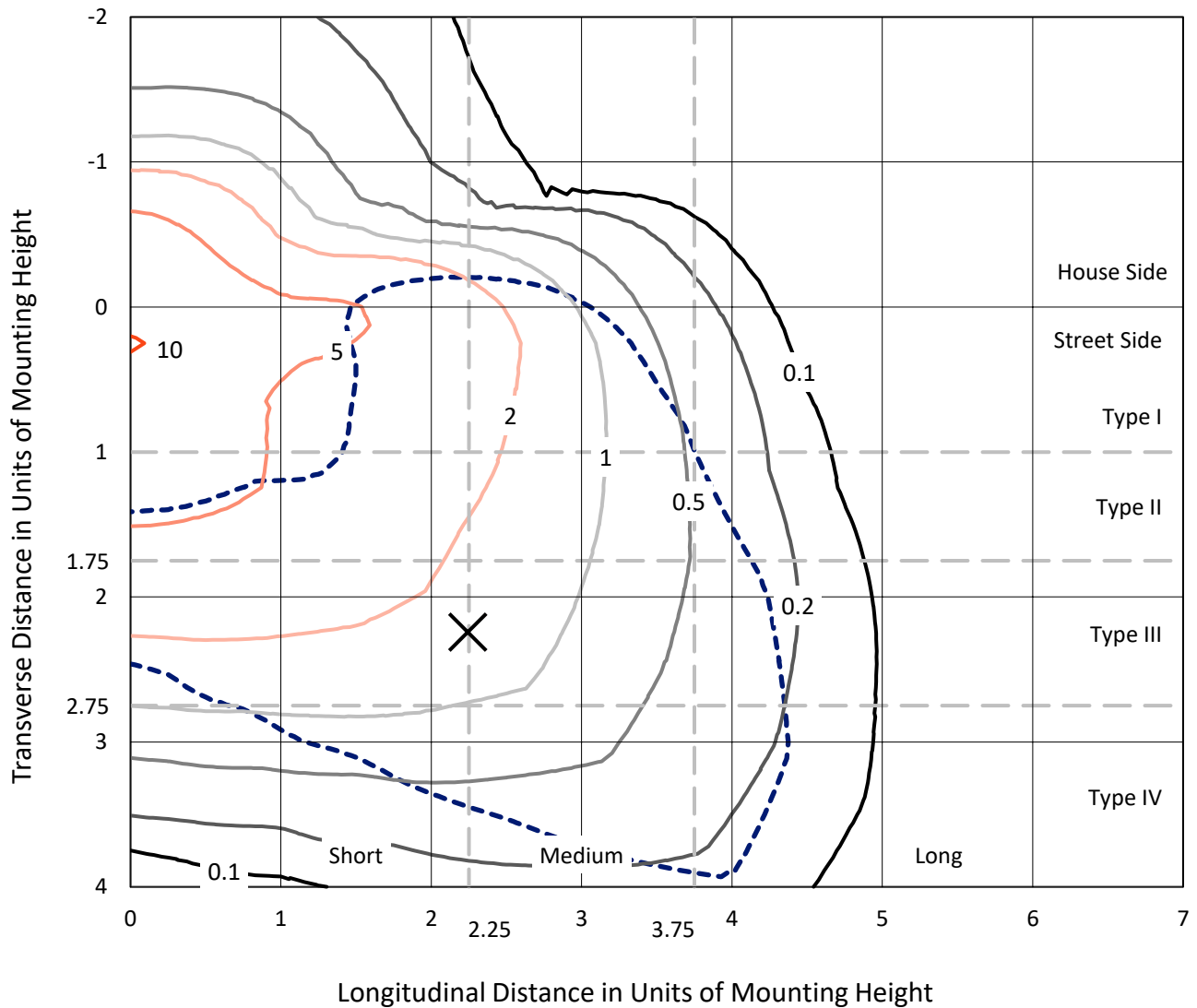
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

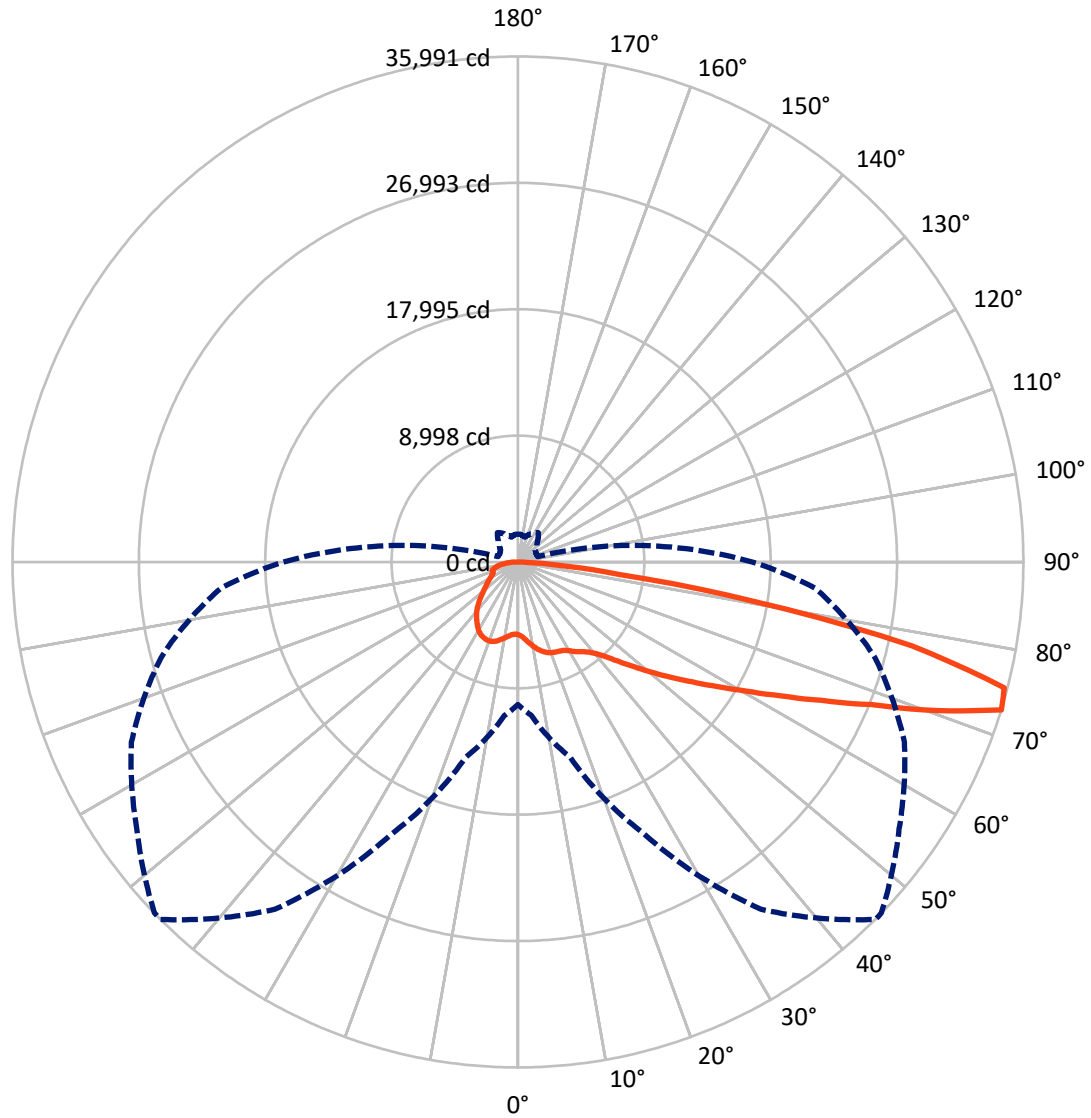
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	11597.8	0.0	11597.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	39705.2	0.0	39705.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	51303.0	0.0	51303.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.8	1.0
10°-20°	1756.3	3.4
20°-30°	3055.2	6.0
30°-40°	4379.7	8.5
40°-50°	6166.9	12.0
50°-60°	9445.9	18.4
60°-70°	13683.8	26.7
70°-80°	10927.4	21.3
80°-90°	1361.0	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°	51303.0	100.0
0°-180°	51303.0	100.0



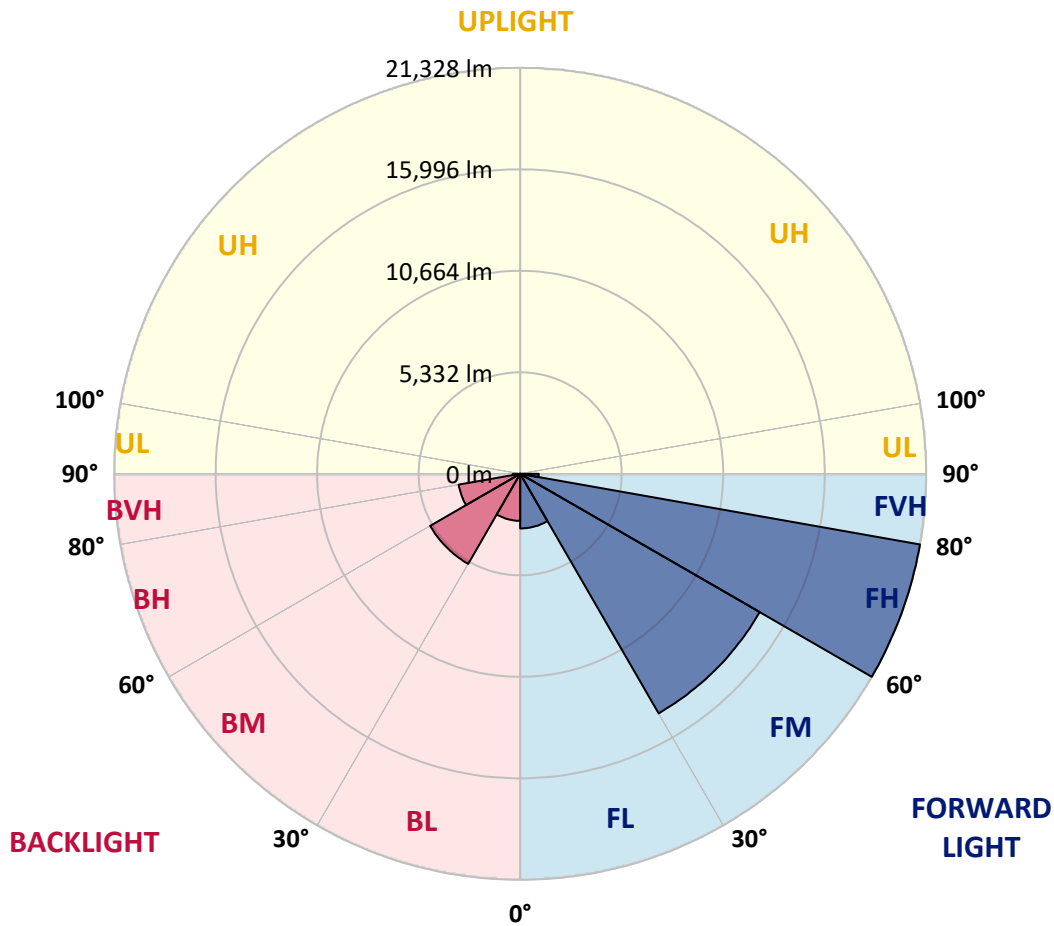
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2868.9	5.6			
FM (30°-60°)	14531.7	28.3			
FH (60°-80°)	21328.2	41.6			G5
FVH (80°-90°)	976.4	1.9			G5
BL (0°-30°)	2469.3	4.8	B3/2500		
BM (30°-60°)	5460.9	10.6	B4/8500		
BH (60°-80°)	3283.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	384.6	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°	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5
2.5°	5378.2	5413.3	5380.9	5351.1	5337.6	5302.5	5299.8	5278.2	5264.7	5226.8
5°	5753.8	5799.8	5745.7	5686.3	5632.2	5545.7	5534.9	5472.8	5402.5	5321.4
7.5°	6178.1	6218.7	6156.5	6067.3	5972.7	5829.5	5826.8	5713.3	5602.5	5464.7
10°	6548.4	6602.4	6518.7	6397.0	6278.1	6116.0	6097.1	5967.3	5826.8	5648.4
12.5°	6875.4	6913.2	6832.2	6683.5	6545.7	6383.5	6359.2	6216.0	6059.2	5856.5
15°	7134.9	7183.5	7075.4	6915.9	6770.0	6610.6	6588.9	6459.2	6302.5	6089.0
17.5°	7305.1	7345.7	7234.9	7056.5	6915.9	6783.5	6767.3	6659.2	6521.4	6305.2
20°	7370.0	7413.2	7297.0	7115.9	6986.2	6883.5	6875.4	6797.0	6702.4	6505.2
22.5°	7434.8	7475.4	7324.0	7134.9	7021.3	6956.5	6953.8	6902.4	6864.6	6702.4
25°	7697.0	7707.8	7505.1	7232.2	7070.0	7013.2	7010.5	7007.8	7024.1	6897.0
27.5°	7924.0	7921.3	7748.3	7491.6	7240.3	7121.3	7118.6	7145.7	7197.0	7091.6
30°	8256.4	8226.7	8021.3	7753.8	7524.0	7340.3	7324.0	7299.7	7340.3	7256.5
32.5°	8961.8	8867.2	8534.8	8059.1	7759.2	7618.6	7597.0	7445.7	7461.9	7410.5
35°	9972.6	9848.3	9405.0	8637.5	8051.0	7851.0	7840.2	7648.4	7615.9	7570.0
37.5°	11175.2	11021.2	10505.0	9475.3	8553.7	8121.3	8105.1	7932.1	7799.7	7751.0
40°	12383.3	12188.7	11761.7	10496.9	9294.2	8572.6	8521.3	8259.1	8107.8	8026.7
42.5°	13556.2	13394.1	13029.2	11642.8	10207.7	9232.1	9118.6	8669.9	8556.4	8480.8
45°	14594.0	14448.1	14180.5	12867.1	11277.9	10129.3	10018.5	9286.1	9251.0	9251.0
47.5°	15437.2	15404.8	15121.0	14115.7	12540.1	11150.9	10959.0	10142.8	10237.4	10383.4
50°	16372.3	16283.1	15980.5	15345.3	14023.8	12321.1	12164.4	11194.2	11548.2	11948.2
52.5°	17231.8	17280.4	16942.6	16626.4	15699.4	13626.5	13350.8	12434.7	13199.5	13861.6
55°	18115.5	18118.2	18023.6	17980.4	17456.1	15069.7	14767.0	13926.5	15142.7	15964.2
57.5°	18945.2	18950.6	19091.1	19472.2	19493.8	16734.5	16391.3	15758.8	17302.0	18139.8
60°	19685.7	19723.6	20107.3	20999.2	21285.7	18642.5	18318.2	17923.6	19534.4	20377.6
62.5°	19934.4	20072.2	20926.2	22193.7	23055.9	20983.0	20664.1	20428.9	21880.2	22664.0
65°	19512.8	19829.0	21480.2	23180.2	24877.4	23763.9	23447.7	23191.0	24318.0	25055.8
67.5°	18477.7	18885.8	21447.8	24215.3	27088.1	27109.8	26815.2	26212.5	26931.4	27215.2
70°	15750.7	16361.5	19558.7	24601.7	29625.9	31685.3	31401.5	29850.2	29539.4	28166.5
72.5°	10148.3	10969.8	14402.1	21420.8	30190.7	35990.5	35974.3	33133.8	30363.7	26317.9
75°	3702.6	4205.2	6691.6	13445.4	25342.3	35771.6	35877.0	32571.7	27717.8	20328.9
77.5°	1348.6	1475.6	2183.7	5167.4	15585.9	28701.6	28920.5	26039.5	19729.0	10202.3
80°	708.1	778.3	1118.9	2005.3	6678.1	17045.3	17388.5	15475.1	9272.6	3072.9
82.5°	391.9	424.3	627.0	1089.1	3008.0	7288.9	7494.3	6113.3	3262.0	1302.7
85°	210.8	224.3	294.6	594.6	1470.2	2526.9	2583.7	1827.0	1299.9	764.8
87.5°	62.2	75.7	97.3	189.2	575.7	567.5	581.1	362.1	513.5	386.5
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°
5175.5	0°	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5	5175.5
5216.0	2.5°	5199.8	5191.7	5162.0	5148.4	5132.2	5129.5	5143.0	5145.7	5148.4	5151.2
5275.5	5°	5248.4	5221.4	5194.4	5178.2	5183.6	5186.3	5213.3	5232.2	5245.7	5256.6
5386.3	7.5°	5343.0	5321.4	5275.5	5272.8	5280.9	5305.2	5340.3	5383.6	5407.9	5426.8
5529.5	10°	5483.6	5443.0	5389.0	5397.1	5413.3	5448.4	5521.4	5556.5	5597.1	5632.2
5705.2	12.5°	5626.8	5591.7	5529.5	5534.9	5561.9	5624.1	5694.4	5737.6	5764.6	5791.7
5894.4	15°	5813.3	5751.1	5683.6	5683.6	5732.2	5799.8	5832.2	5867.3	5883.6	5913.3
6097.1	17.5°	6005.2	5924.1	5834.9	5829.5	5889.0	5921.4	5940.3	5945.7	5951.1	5983.6
6294.3	20°	6197.1	6107.9	5980.8	5970.0	5983.6	5978.1	5975.4	5970.0	5978.1	6018.7
6497.0	22.5°	6386.2	6283.5	6107.9	6059.2	6021.4	5970.0	5967.3	5964.6	5970.0	6010.6
6716.0	25°	6607.9	6483.5	6248.4	6102.5	5975.4	5905.2	5913.3	5916.0	5921.4	5953.8
6943.0	27.5°	6848.4	6710.5	6378.1	6089.0	5859.2	5810.6	5797.1	5805.2	5824.1	5875.4
7170.0	30°	7088.9	6926.8	6497.0	6034.9	5713.3	5645.7	5602.5	5621.4	5680.9	5732.2
7367.3	32.5°	7307.8	7145.7	6591.6	5916.0	5526.8	5421.4	5364.7	5389.0	5448.4	5467.4
7586.2	35°	7564.6	7380.8	6632.2	5726.8	5324.1	5162.0	5086.3	5051.2	5080.9	5062.0
7842.9	37.5°	7851.0	7659.2	6626.8	5478.2	5086.3	4899.8	4794.4	4662.0	4599.8	4535.0
8221.3	40°	8275.4	7999.7	6561.9	5178.2	4791.7	4621.4	4432.3	4207.9	4067.4	3940.4
8832.1	42.5°	8853.7	8472.6	6443.0	4848.5	4459.3	4299.8	4043.1	3780.9	3559.3	3348.5
9759.1	45°	9715.8	9091.5	6294.3	4497.1	4099.8	3943.1	3664.7	3370.1	3118.8	2848.5
11075.2	47.5°	10959.0	9923.9	6153.8	4097.1	3721.5	3578.2	3326.9	3053.9	2756.6	2494.5
12977.9	50°	12667.1	11118.5	6024.1	3708.0	3348.5	3240.4	3040.4	2762.1	2462.1	2251.3
15207.5	52.5°	14840.0	12742.7	5970.0	3332.3	2999.9	2959.3	2799.9	2540.4	2256.7	2078.3
17807.4	55°	17334.5	14685.9	5970.0	2972.9	2694.5	2708.0	2597.2	2356.7	2110.7	1951.3
20488.4	57.5°	19880.3	16653.4	5861.9	2640.4	2435.0	2491.8	2421.5	2210.7	1989.1	1824.3
23307.2	60°	22226.2	18302.0	5424.1	2337.7	2205.3	2294.5	2248.6	2067.5	1797.2	1659.4
25663.9	62.5°	24028.8	19231.7	4580.9	2097.2	2016.1	2118.8	2094.5	1878.3	1762.1	1705.3
27598.9	65°	24931.5	19080.3	3502.6	1883.7	1856.7	2016.1	1964.8	1956.7	1864.8	1799.9
28228.6	67.5°	24377.4	17777.7	2540.4	1727.0	1764.8	1921.5	2118.8	2151.3	1981.0	1854.0
26455.7	70°	21947.8	15421.0	1891.8	1578.3	1648.6	1924.2	2416.1	2251.3	1943.2	1794.5
21218.1	72.5°	16696.6	11499.6	1467.5	1421.6	1497.2	1937.8	2548.5	2205.3	1835.1	1983.7
13218.4	75°	9548.3	6313.3	1178.3	1229.7	1308.1	1810.7	2481.0	2086.4	1751.3	1821.6
5237.6	77.5°	3640.4	2426.9	972.9	1040.5	1051.3	1581.0	2372.9	2078.3	1667.5	1627.0
1570.2	80°	1262.1	948.6	805.4	827.0	813.5	1405.4	2275.6	1808.0	1364.8	1221.6
648.6	82.5°	516.2	473.0	637.8	610.8	578.4	1091.8	1837.8	1478.3	1116.2	986.4
313.5	85°	224.3	300.0	421.6	370.3	335.1	756.7	1472.9	1251.3	943.2	813.5
102.7	87.5°	45.9	113.5	178.4	167.6	173.0	505.4	1045.9	889.2	667.5	500.0
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°
5175.5
5162.0
5262.0
5432.2
5624.1
5802.5
5924.1
5994.4
6034.9
6037.6
5997.1
5926.8
5789.0
5534.9
5121.4
4575.5
3948.5
3329.6
2816.1
2464.8
2237.8
2064.8
1935.1
1797.2
1637.8
1686.4
1778.3
1832.4
1770.2
1967.5
1821.6
1483.7
1181.0
975.6
810.8
391.9
0.0

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