

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: P953229

Luminaire Tested: **GALN-SB6D-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953229
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-SB6D-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55340 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

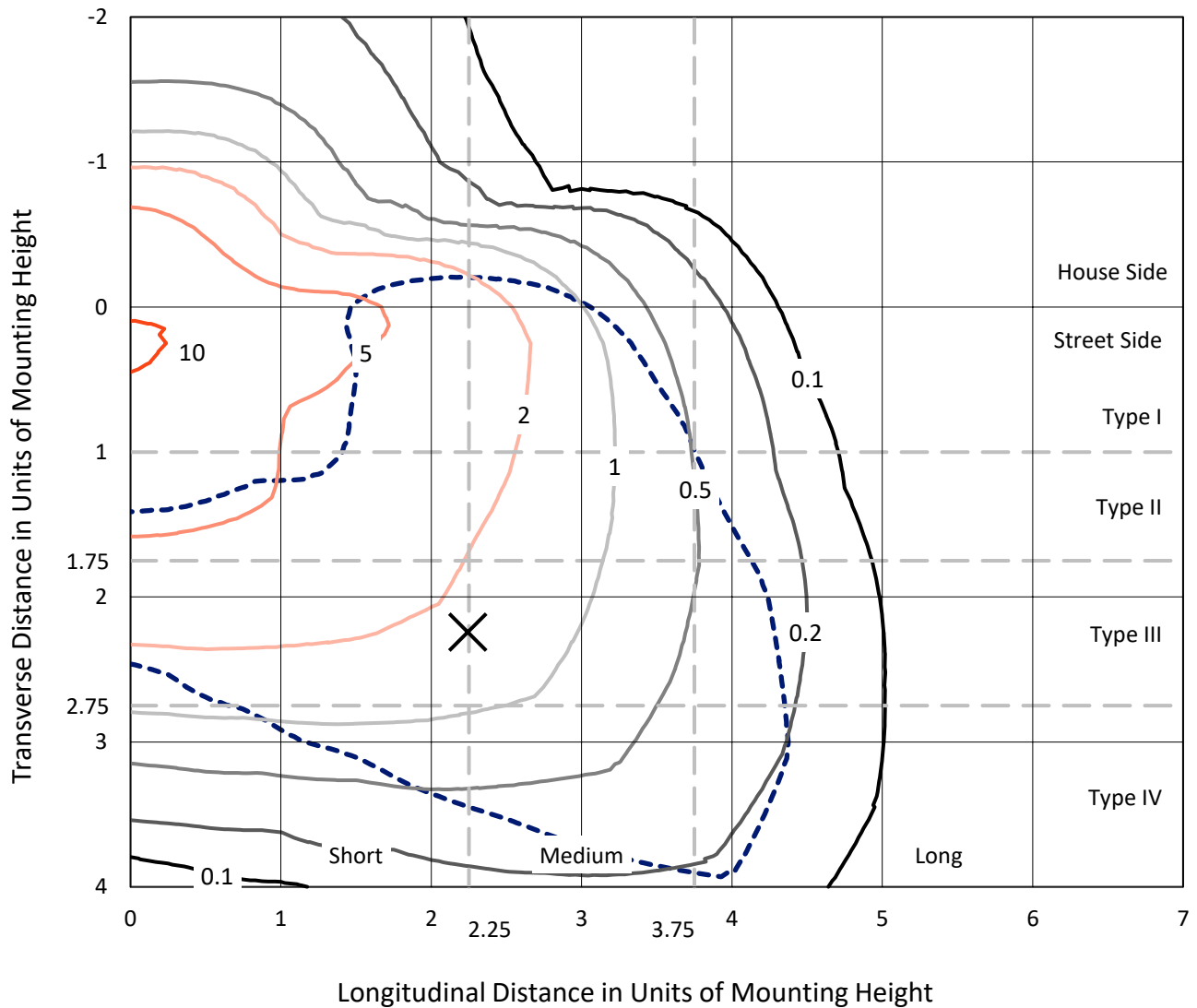
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

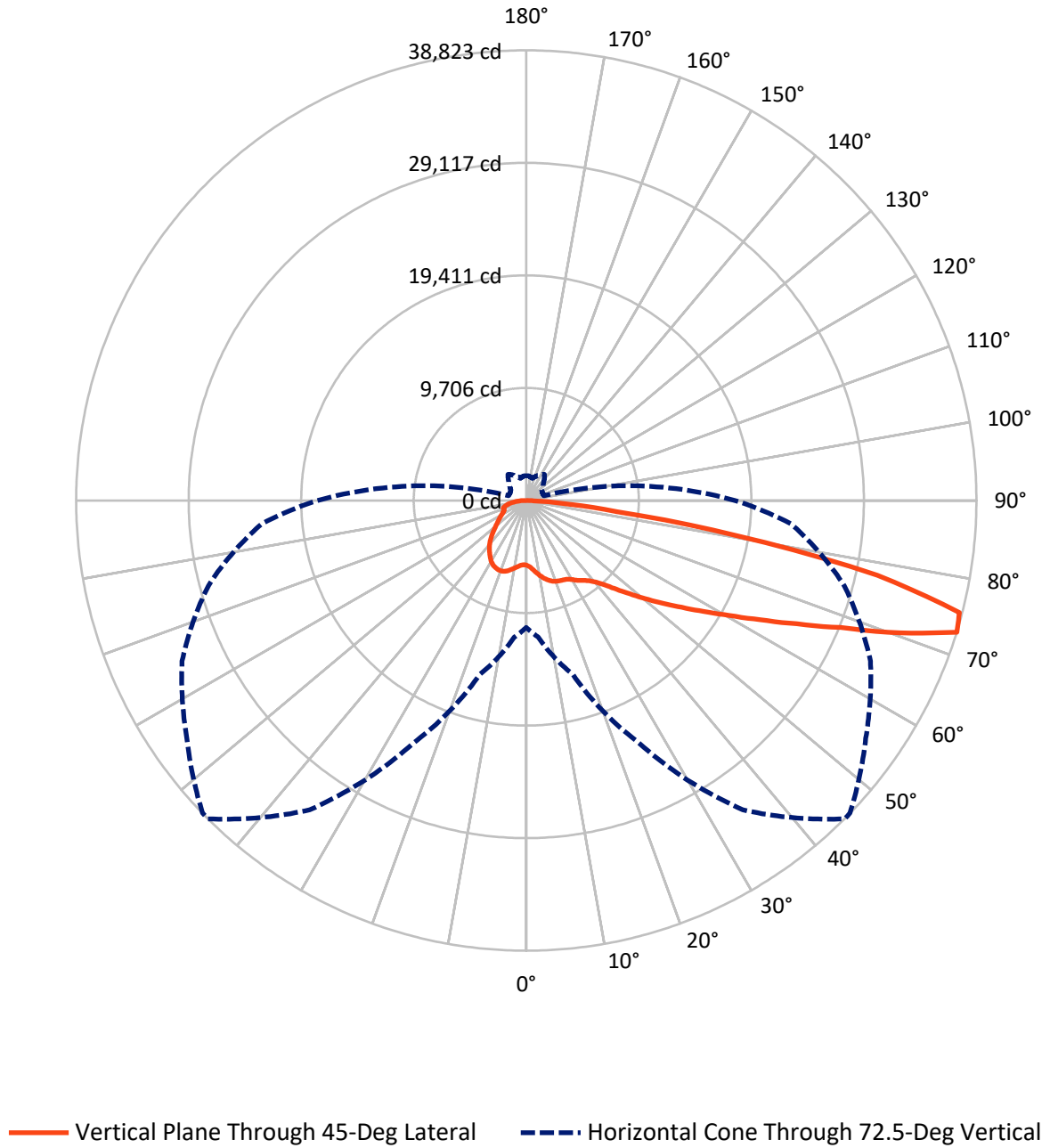
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12510.5	0.0	12510.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	42829.5	0.0	42829.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	55340.0	0.0	55340.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.2	1.0
10°-20°	1894.5	3.4
20°-30°	3295.6	6.0
30°-40°	4724.4	8.5
40°-50°	6652.2	12.0
50°-60°	10189.2	18.4
60°-70°	14760.6	26.7
70°-80°	11787.2	21.3
80°-90°	1468.1	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°	55340.0	100.0
0°-180°	55340.0	100.0



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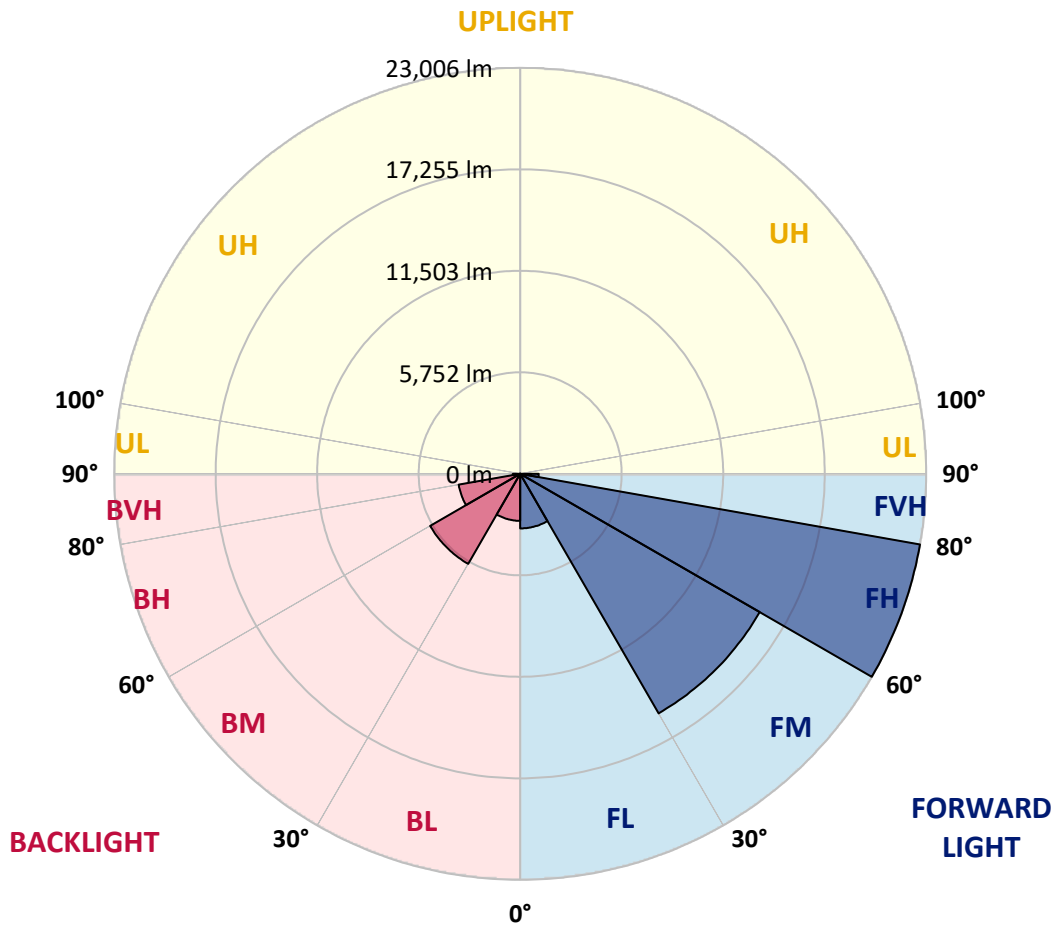
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3094.7	5.6			
FM (30°-60°)	15675.2	28.3			
FH (60°-80°)	23006.5	41.6			G5
FVH (80°-90°)	1053.2	1.9			G5
BL (0°-30°)	2663.6	4.8	B4/5000		
BM (30°-60°)	5890.7	10.6	B4/8500		
BH (60°-80°)	3541.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	414.9	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°	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7
2.5°	5801.4	5839.3	5804.3	5772.2	5757.6	5719.7	5716.8	5693.5	5678.9	5638.1
5°	6206.6	6256.2	6197.8	6133.7	6075.4	5982.1	5970.5	5903.4	5827.6	5740.2
7.5°	6664.3	6708.0	6641.0	6544.8	6442.7	6288.2	6285.3	6162.9	6043.3	5894.7
10°	7063.7	7122.0	7031.6	6900.4	6772.2	6597.2	6576.8	6436.9	6285.3	6092.9
12.5°	7416.4	7457.2	7369.8	7209.4	7060.8	6885.9	6859.6	6705.1	6536.0	6317.4
15°	7696.3	7748.8	7632.2	7460.2	7302.7	7130.7	7107.4	6967.5	6798.4	6568.1
17.5°	7880.0	7923.7	7804.2	7611.8	7460.2	7317.3	7299.8	7183.2	7034.5	6801.3
20°	7949.9	7996.6	7871.2	7675.9	7536.0	7425.2	7416.4	7331.9	7229.9	7017.0
22.5°	8019.9	8063.6	7900.4	7696.3	7573.9	7503.9	7501.0	7445.6	7404.8	7229.9
25°	8302.7	8314.3	8095.7	7801.2	7626.3	7565.1	7562.2	7559.3	7576.8	7439.8
27.5°	8547.6	8544.6	8358.1	8081.1	7810.0	7681.7	7678.8	7708.0	7763.3	7649.7
30°	8906.1	8874.1	8652.5	8363.9	8116.1	7917.9	7900.4	7874.1	7917.9	7827.5
32.5°	9667.0	9565.0	9206.4	8693.3	8369.7	8218.1	8194.8	8031.5	8049.0	7993.7
35°	10757.3	10623.2	10145.1	9317.2	8684.6	8468.8	8457.2	8250.2	8215.2	8165.7
37.5°	12054.6	11888.4	11331.6	10220.9	9226.8	8760.4	8742.9	8556.3	8413.4	8361.0
40°	13357.7	13147.8	12687.2	11322.9	10025.6	9247.2	9191.8	8909.0	8745.8	8658.3
42.5°	14623.0	14448.0	14054.5	12559.0	11010.9	9958.5	9836.1	9352.2	9229.7	9148.1
45°	15742.4	15585.0	15296.4	13879.6	12165.4	10926.4	10806.9	10016.8	9978.9	9978.9
47.5°	16652.0	16617.0	16310.9	15226.4	13526.8	12028.4	11821.4	10941.0	11043.0	11200.4
50°	17660.7	17564.5	17238.0	16552.9	15127.3	13290.7	13121.6	12075.0	12456.9	12888.4
52.5°	18587.7	18640.2	18275.8	17934.7	16934.8	14698.8	14401.4	13413.1	14238.1	14952.4
55°	19541.0	19543.9	19441.9	19395.2	18829.7	16255.5	15929.0	15022.4	16334.2	17220.5
57.5°	20436.0	20441.8	20593.4	21004.5	21027.8	18051.3	17681.1	16998.9	18663.5	19567.2
60°	21234.8	21275.6	21689.6	22651.6	22960.6	20109.5	19759.7	19334.0	21071.5	21981.1
62.5°	21503.0	21651.7	22572.9	23940.1	24870.1	22634.1	22290.1	22036.5	23602.0	24447.4
65°	21048.2	21389.3	23170.5	25004.2	26835.0	25633.9	25292.8	25015.9	26231.5	27027.4
67.5°	19931.7	20371.9	23135.5	26120.8	29219.7	29243.0	28925.2	28275.1	29050.6	29356.7
70°	16990.2	17649.0	21097.8	26537.6	31957.1	34178.5	33872.4	32199.1	31863.8	30382.9
72.5°	10946.8	11833.1	15535.4	23106.4	32566.4	38822.6	38805.1	35741.1	32753.0	28388.8
75°	3993.9	4536.1	7218.2	14503.4	27336.4	38586.4	38700.1	35134.8	29898.9	21928.6
77.5°	1454.7	1591.7	2355.5	5574.0	16812.3	30960.1	31196.2	28088.6	21281.4	11005.1
80°	763.8	839.6	1206.9	2163.1	7203.6	18386.6	18756.8	16692.8	10002.3	3314.7
82.5°	422.7	457.7	676.3	1174.9	3244.7	7862.5	8084.0	6594.3	3518.7	1405.2
85°	227.4	242.0	317.8	641.4	1585.9	2725.8	2787.0	1970.7	1402.2	825.0
87.5°	67.1	81.6	104.9	204.1	621.0	612.2	626.8	390.6	553.9	416.9
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°
5582.7	0°	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7	5582.7
5626.5	2.5°	5609.0	5600.2	5568.2	5553.6	5536.1	5533.2	5547.7	5550.7	5553.6	5556.5
5690.6	5°	5661.4	5632.3	5603.1	5585.6	5591.5	5594.4	5623.5	5643.9	5658.5	5670.2
5810.1	7.5°	5763.5	5740.2	5690.6	5687.7	5696.4	5722.7	5760.6	5807.2	5833.4	5853.8
5964.6	10°	5915.1	5871.3	5813.0	5821.8	5839.3	5877.2	5955.9	5993.8	6037.5	6075.4
6154.1	12.5°	6069.6	6031.7	5964.6	5970.5	5999.6	6066.7	6142.5	6189.1	6218.3	6247.4
6358.2	15°	6270.7	6203.7	6130.8	6130.8	6183.3	6256.2	6291.1	6329.0	6346.5	6378.6
6576.8	17.5°	6477.7	6390.3	6294.1	6288.2	6352.4	6387.3	6407.7	6413.6	6419.4	6454.4
6789.6	20°	6684.7	6588.5	6451.5	6439.8	6454.4	6448.6	6445.6	6439.8	6448.6	6492.3
7008.3	22.5°	6888.8	6778.0	6588.5	6536.0	6495.2	6439.8	6436.9	6434.0	6439.8	6483.5
7244.4	25°	7127.8	6993.7	6740.1	6582.7	6445.6	6369.8	6378.6	6381.5	6387.3	6422.3
7489.3	27.5°	7387.3	7238.6	6880.0	6568.1	6320.3	6267.8	6253.2	6262.0	6282.4	6337.8
7734.2	30°	7646.7	7471.8	7008.3	6509.8	6162.9	6090.0	6043.3	6063.7	6127.9	6183.3
7947.0	32.5°	7882.9	7708.0	7110.3	6381.5	5961.7	5848.0	5786.8	5813.0	5877.2	5897.6
8183.1	35°	8159.8	7961.6	7154.1	6177.4	5743.1	5568.2	5486.5	5448.6	5480.7	5460.3
8460.1	37.5°	8468.8	8261.9	7148.2	5909.2	5486.5	5285.4	5171.7	5028.8	4961.8	4891.8
8868.2	40°	8926.5	8629.2	7078.3	5585.6	5168.8	4985.1	4781.0	4539.1	4387.5	4250.5
9527.1	42.5°	9550.4	9139.3	6950.0	5230.0	4810.2	4638.2	4361.2	4078.5	3839.4	3612.0
10527.0	45°	10480.4	9806.9	6789.6	4851.0	4422.5	4253.4	3953.1	3635.3	3364.2	3072.7
11946.7	47.5°	11821.4	10704.8	6638.1	4419.5	4014.3	3859.8	3588.7	3294.2	2973.6	2690.8
13999.1	50°	13663.8	11993.4	6498.1	3999.7	3612.0	3495.4	3279.7	2979.4	2655.8	2428.4
16404.2	52.5°	16007.7	13745.5	6439.8	3594.5	3235.9	3192.2	3020.2	2740.3	2434.2	2241.8
19208.7	55°	18698.5	15841.5	6439.8	3206.8	2906.5	2921.1	2801.6	2542.1	2276.8	2104.8
22100.6	57.5°	21444.7	17963.9	6323.2	2848.2	2626.7	2687.9	2612.1	2384.7	2145.6	1967.8
25141.2	60°	23975.1	19742.2	5850.9	2521.7	2378.9	2475.1	2425.5	2230.2	1938.6	1790.0
27683.3	62.5°	25919.6	20745.0	4941.4	2262.2	2174.8	2285.6	2259.3	2026.1	1900.8	1839.5
29770.7	65°	26893.3	20581.8	3778.2	2031.9	2002.8	2174.8	2119.4	2110.7	2011.5	1941.6
30449.9	67.5°	26295.7	19176.6	2740.3	1862.9	1903.7	2072.8	2285.6	2320.5	2136.9	1999.9
28537.5	70°	23674.9	16634.5	2040.7	1702.5	1778.3	2075.7	2606.2	2428.4	2096.1	1935.7
22887.7	72.5°	18010.5	12404.4	1583.0	1533.4	1615.1	2090.2	2749.1	2378.9	1979.5	2139.8
14258.6	75°	10299.6	6810.1	1271.1	1326.4	1411.0	1953.2	2676.2	2250.6	1889.1	1964.9
5649.8	77.5°	3926.9	2617.9	1049.5	1122.4	1134.0	1705.4	2559.6	2241.8	1798.7	1755.0
1693.8	80°	1361.4	1023.3	868.7	892.1	877.5	1515.9	2454.7	1950.3	1472.2	1317.7
699.7	82.5°	556.8	510.2	688.0	658.8	623.9	1177.8	1982.4	1594.6	1204.0	1064.1
338.2	85°	242.0	323.6	454.8	399.4	361.5	816.3	1588.8	1349.8	1017.4	877.5
110.8	87.5°	49.6	122.4	192.4	180.7	186.6	545.2	1128.2	959.1	720.1	539.3
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°
5582.7
5568.2
5676.0
5859.7
6066.7
6259.1
6390.3
6466.1
6509.8
6512.7
6469.0
6393.2
6244.5
5970.5
5524.4
4935.5
4259.2
3591.6
3037.7
2658.7
2413.8
2227.3
2087.3
1938.6
1766.6
1819.1
1918.2
1976.5
1909.5
2122.3
1964.9
1600.5
1274.0
1052.4
874.6
422.7
0.0

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