

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: P950373

Luminaire Tested: **GALN-SB4D-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950373  
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-SB4D-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

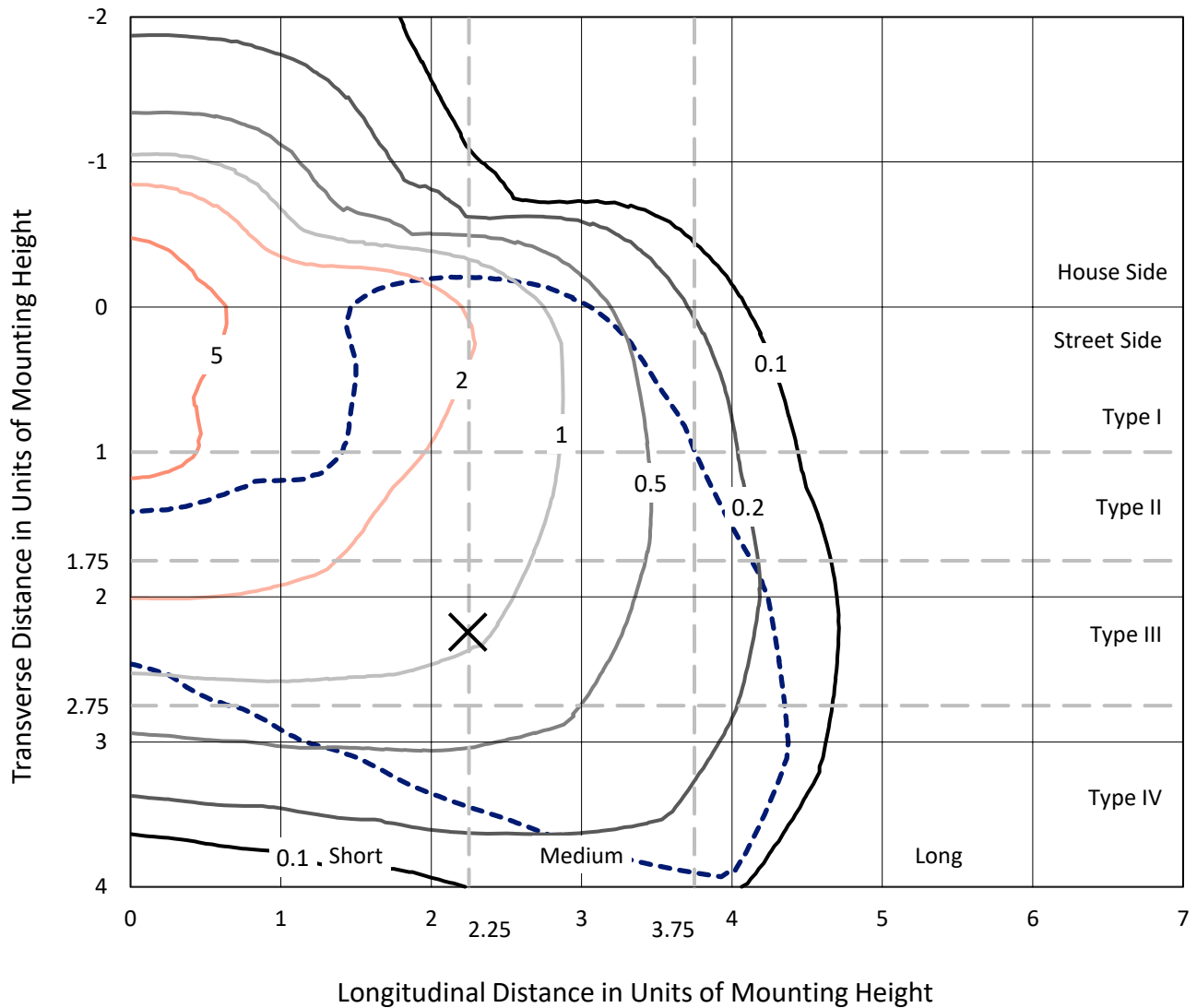
Lumens per Lamp: N/A  
Luminaire Lumens: 36574 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

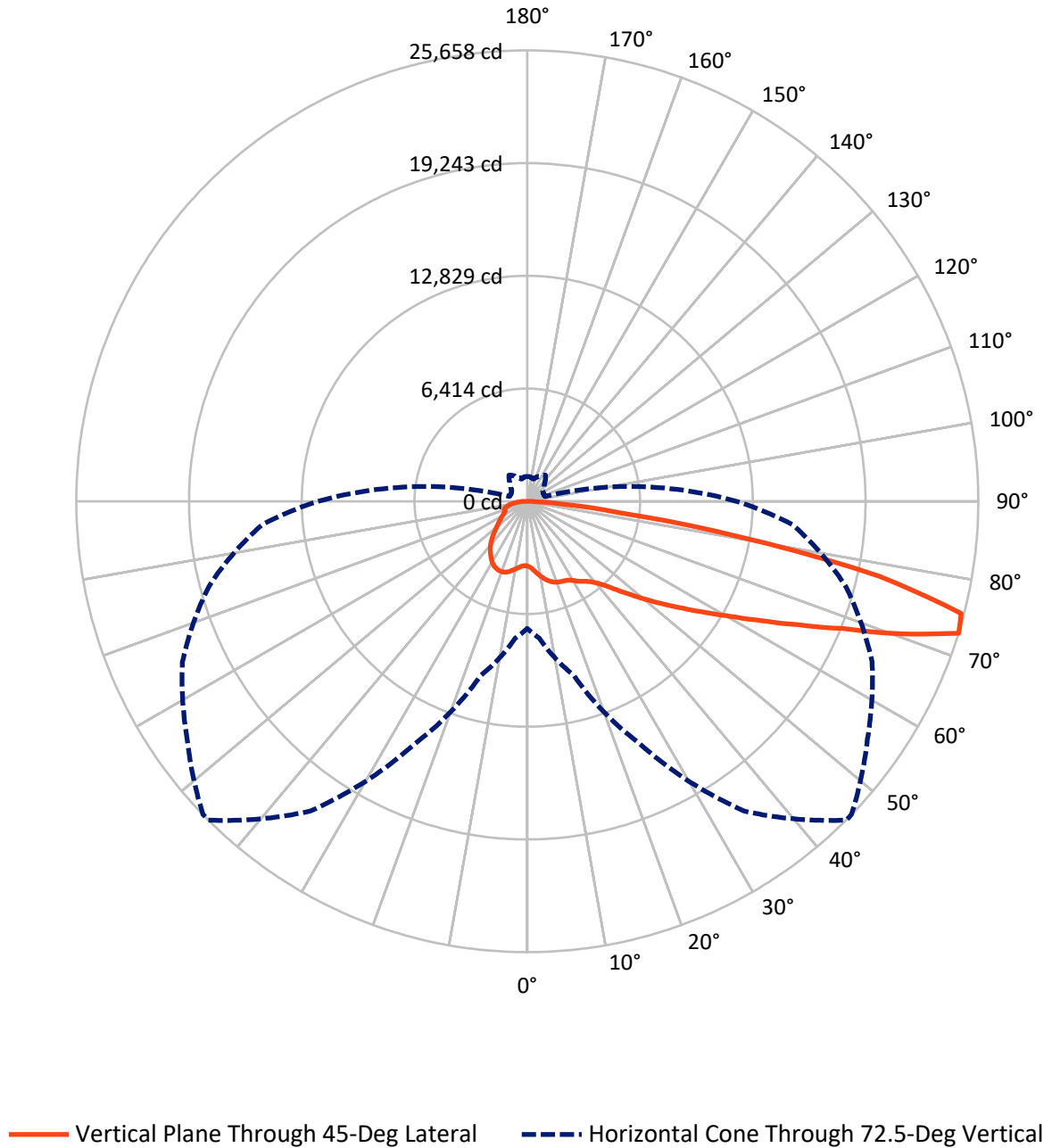
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8268.1	0.0	8268.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	28305.9	0.0	28305.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	36574.0	0.0	36574.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.5	1.0
10°-20°	1252.1	3.4
20°-30°	2178.0	6.0
30°-40°	3122.3	8.5
40°-50°	4396.4	12.0
50°-60°	6734.0	18.4
60°-70°	9755.2	26.7
70°-80°	7790.1	21.3
80°-90°	970.2	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°	36574.0	100.0
0°-180°	36574.0	100.0



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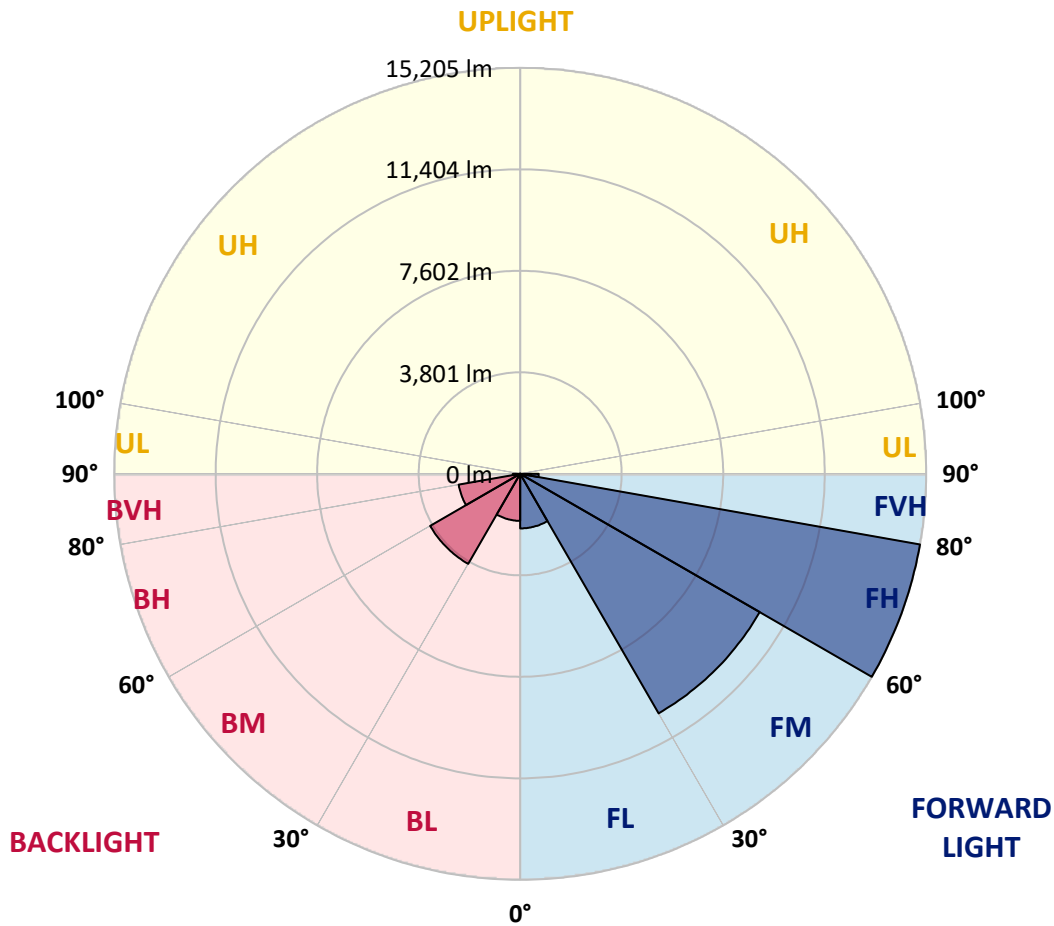
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.3	5.6			
FM (30°-60°)	10359.7	28.3			
FH (60°-80°)	15204.9	41.6			G5
FVH (80°-90°)	696.1	1.9			G4/750
BL (0°-30°)	1760.4	4.8	B3/2500		
BM (30°-60°)	3893.1	10.6	B3/5000		
BH (60°-80°)	2340.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	274.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6
2.5°	3834.1	3859.2	3836.0	3814.8	3805.2	3780.2	3778.2	3762.8	3753.2	3726.2
5°	4101.9	4134.7	4096.1	4053.7	4015.2	3953.6	3945.9	3901.5	3851.4	3793.6
7.5°	4404.4	4433.3	4389.0	4325.4	4258.0	4155.9	4153.9	4073.0	3994.0	3895.8
10°	4668.4	4706.9	4647.2	4560.5	4475.7	4360.1	4346.6	4254.1	4153.9	4026.8
12.5°	4901.5	4928.5	4870.7	4764.7	4666.4	4550.8	4533.5	4431.4	4319.6	4175.1
15°	5086.5	5121.1	5044.1	4930.4	4826.3	4712.7	4697.3	4604.8	4493.0	4340.8
17.5°	5207.8	5236.7	5157.7	5030.6	4930.4	4836.0	4824.4	4747.4	4649.1	4495.0
20°	5254.1	5284.9	5202.1	5073.0	4980.5	4907.3	4901.5	4845.6	4778.2	4637.5
22.5°	5300.3	5329.2	5221.3	5086.5	5005.5	4959.3	4957.4	4920.8	4893.8	4778.2
25°	5487.2	5494.9	5350.4	5155.8	5040.2	4999.8	4997.8	4995.9	5007.5	4916.9
27.5°	5649.0	5647.1	5523.8	5340.8	5161.6	5076.8	5074.9	5094.2	5130.8	5055.6
30°	5886.0	5864.8	5718.4	5527.7	5363.9	5232.9	5221.3	5204.0	5232.9	5173.2
32.5°	6388.9	6321.5	6084.5	5745.4	5531.5	5431.3	5415.9	5308.0	5319.6	5283.0
35°	7109.5	7020.8	6704.9	6157.7	5739.6	5597.0	5589.3	5452.5	5429.4	5396.6
37.5°	7966.8	7857.0	7489.0	6755.0	6098.0	5789.7	5778.1	5654.8	5560.4	5525.7
40°	8828.1	8689.4	8384.9	7483.3	6625.9	6111.4	6074.8	5888.0	5780.1	5722.3
42.5°	9664.3	9548.7	9288.6	8300.2	7277.1	6581.6	6500.6	6180.8	6099.9	6045.9
45°	10404.1	10300.1	10109.3	9173.0	8040.1	7221.2	7142.2	6620.1	6595.0	6595.0
47.5°	11005.2	10982.1	10779.8	10063.1	8939.8	7949.5	7812.7	7230.9	7298.3	7402.3
50°	11671.9	11608.3	11392.5	10939.7	9997.6	8783.8	8672.0	7980.3	8232.7	8517.9
52.5°	12284.6	12319.2	12078.4	11853.0	11192.1	9714.4	9517.8	8864.7	9409.9	9882.0
55°	12914.6	12916.5	12849.1	12818.2	12444.5	10743.2	10527.4	9928.2	10795.2	11380.9
57.5°	13506.1	13509.9	13610.1	13881.8	13897.2	11930.0	11685.4	11234.5	12334.6	12931.9
60°	14034.0	14061.0	14334.5	14970.4	15174.6	13290.3	13059.1	12777.8	13926.1	14527.2
62.5°	14211.2	14309.5	14918.3	15821.9	16436.6	14958.8	14731.4	14563.8	15598.5	16157.2
65°	13910.7	14136.1	15313.3	16525.2	17735.1	16941.4	16715.9	16532.9	17336.3	17862.3
67.5°	13172.8	13463.7	15290.2	17263.1	19311.2	19326.6	19116.6	18686.9	19199.4	19401.7
70°	11228.7	11664.2	13943.4	17538.6	21120.3	22588.5	22386.2	21280.3	21058.7	20079.9
72.5°	7234.7	7820.4	10267.3	15270.9	21523.0	25657.7	25646.1	23621.2	21646.3	18762.1
75°	2639.6	2997.9	4770.5	9585.3	18066.5	25501.6	25576.8	23220.4	19760.1	14492.5
77.5°	961.4	1052.0	1556.8	3683.8	11111.2	20461.4	20617.5	18563.6	14064.8	7273.2
80°	504.8	554.9	797.6	1429.6	4760.8	12151.6	12396.3	11032.2	6610.5	2190.6
82.5°	279.4	302.5	447.0	776.5	2144.4	5196.3	5342.7	4358.2	2325.5	928.7
85°	150.3	159.9	210.0	423.9	1048.1	1801.5	1841.9	1302.4	926.7	545.3
87.5°	44.3	53.9	69.4	134.9	410.4	404.6	414.2	258.2	366.1	275.5
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°
3689.6	0°	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6
3718.5	2.5°	3706.9	3701.2	3680.0	3670.3	3658.8	3656.9	3666.5	3668.4	3670.3	3672.3
3760.9	5°	3741.6	3722.4	3703.1	3691.5	3695.4	3697.3	3716.6	3730.1	3739.7	3747.4
3839.9	7.5°	3809.1	3793.6	3760.9	3759.0	3764.7	3782.1	3807.1	3838.0	3855.3	3868.8
3942.0	10°	3909.2	3880.3	3841.8	3847.6	3859.2	3884.2	3936.2	3961.3	3990.2	4015.2
4067.2	12.5°	4011.4	3986.3	3942.0	3945.9	3965.1	4009.4	4059.5	4090.4	4109.6	4128.9
4202.1	15°	4144.3	4100.0	4051.8	4051.8	4086.5	4134.7	4157.8	4182.8	4194.4	4215.6
4346.6	17.5°	4281.1	4223.3	4159.7	4155.9	4198.2	4221.4	4234.9	4238.7	4242.6	4265.7
4487.3	20°	4417.9	4354.3	4263.8	4256.1	4265.7	4261.8	4259.9	4256.1	4261.8	4290.7
4631.8	22.5°	4552.8	4479.5	4354.3	4319.6	4292.7	4256.1	4254.1	4252.2	4256.1	4285.0
4787.8	25°	4710.7	4622.1	4454.5	4350.5	4259.9	4209.8	4215.6	4217.5	4221.4	4244.5
4949.7	27.5°	4882.2	4784.0	4547.0	4340.8	4177.1	4142.4	4132.7	4138.5	4152.0	4188.6
5111.5	30°	5053.7	4938.1	4631.8	4302.3	4073.0	4024.8	3994.0	4007.5	4049.9	4086.5
5252.1	32.5°	5209.8	5094.2	4699.2	4217.5	3940.1	3864.9	3824.5	3841.8	3884.2	3897.7
5408.2	35°	5392.8	5261.8	4728.1	4082.6	3795.6	3680.0	3626.0	3601.0	3622.2	3608.7
5591.2	37.5°	5597.0	5460.2	4724.2	3905.4	3626.0	3493.1	3417.9	3323.5	3279.2	3233.0
5861.0	40°	5899.5	5703.0	4678.0	3691.5	3416.0	3294.6	3159.8	2999.9	2899.7	2809.1
6296.4	42.5°	6311.8	6040.2	4593.2	3456.5	3179.0	3065.4	2882.3	2695.4	2537.4	2387.2
6957.3	45°	6926.4	6481.4	4487.3	3206.0	2922.8	2811.0	2612.6	2402.6	2223.4	2030.7
7895.6	47.5°	7812.7	7074.8	4387.1	2920.9	2653.0	2550.9	2371.8	2177.2	1965.2	1778.3
9251.9	50°	9030.4	7926.4	4294.6	2643.4	2387.2	2310.1	2167.5	1969.1	1755.2	1604.9
10841.5	52.5°	10579.4	9084.3	4256.1	2375.6	2138.6	2109.7	1996.0	1811.1	1608.8	1481.6
12694.9	55°	12357.8	10469.6	4256.1	2119.4	1920.9	1930.5	1851.5	1680.1	1504.7	1391.1
14606.2	57.5°	14172.7	11872.2	4179.0	1882.4	1735.9	1776.4	1726.3	1576.0	1418.0	1300.5
16615.7	60°	15845.1	13047.5	3866.9	1666.6	1572.2	1635.8	1603.0	1473.9	1281.2	1183.0
18295.8	62.5°	17130.2	13710.3	3265.7	1495.1	1437.3	1510.5	1493.2	1339.0	1256.2	1215.7
19675.3	65°	17773.7	13602.4	2497.0	1342.9	1323.6	1437.3	1400.7	1394.9	1329.4	1283.2
20124.2	67.5°	17378.7	12673.7	1811.1	1231.2	1258.1	1369.9	1510.5	1533.6	1412.3	1321.7
18860.3	70°	15646.6	10993.7	1348.7	1125.2	1175.3	1371.8	1722.5	1604.9	1385.3	1279.3
15126.4	72.5°	11903.1	8198.1	1046.2	1013.4	1067.4	1381.4	1816.9	1572.2	1308.2	1414.2
9423.4	75°	6807.0	4500.7	840.0	876.6	932.5	1290.9	1768.7	1487.4	1248.5	1298.6
3733.9	77.5°	2595.2	1730.2	693.6	741.8	749.5	1127.1	1691.6	1481.6	1188.8	1159.9
1119.4	80°	899.8	676.3	574.2	589.6	579.9	1001.9	1622.3	1289.0	973.0	870.9
462.4	82.5°	368.0	337.2	454.7	435.4	412.3	778.4	1310.1	1053.9	795.7	703.2
223.5	85°	159.9	213.9	300.6	264.0	238.9	539.5	1050.0	892.1	672.4	579.9
73.2	87.5°	32.8	80.9	127.2	119.5	123.3	360.3	745.6	633.9	475.9	356.4
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>
3689.6
3680.0
3751.3
3872.6
4009.4
4136.6
4223.3
4273.4
4302.3
4304.2
4275.3
4225.2
4127.0
3945.9
3651.1
3261.9
2814.9
2373.7
2007.6
1757.1
1595.3
1472.0
1379.5
1281.2
1167.6
1202.3
1267.8
1306.3
1262.0
1402.6
1298.6
1057.8
842.0
695.5
578.0
279.4
0.0

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