

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: P941345

Luminaire Tested: **GALN-SB4D-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
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-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36310 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

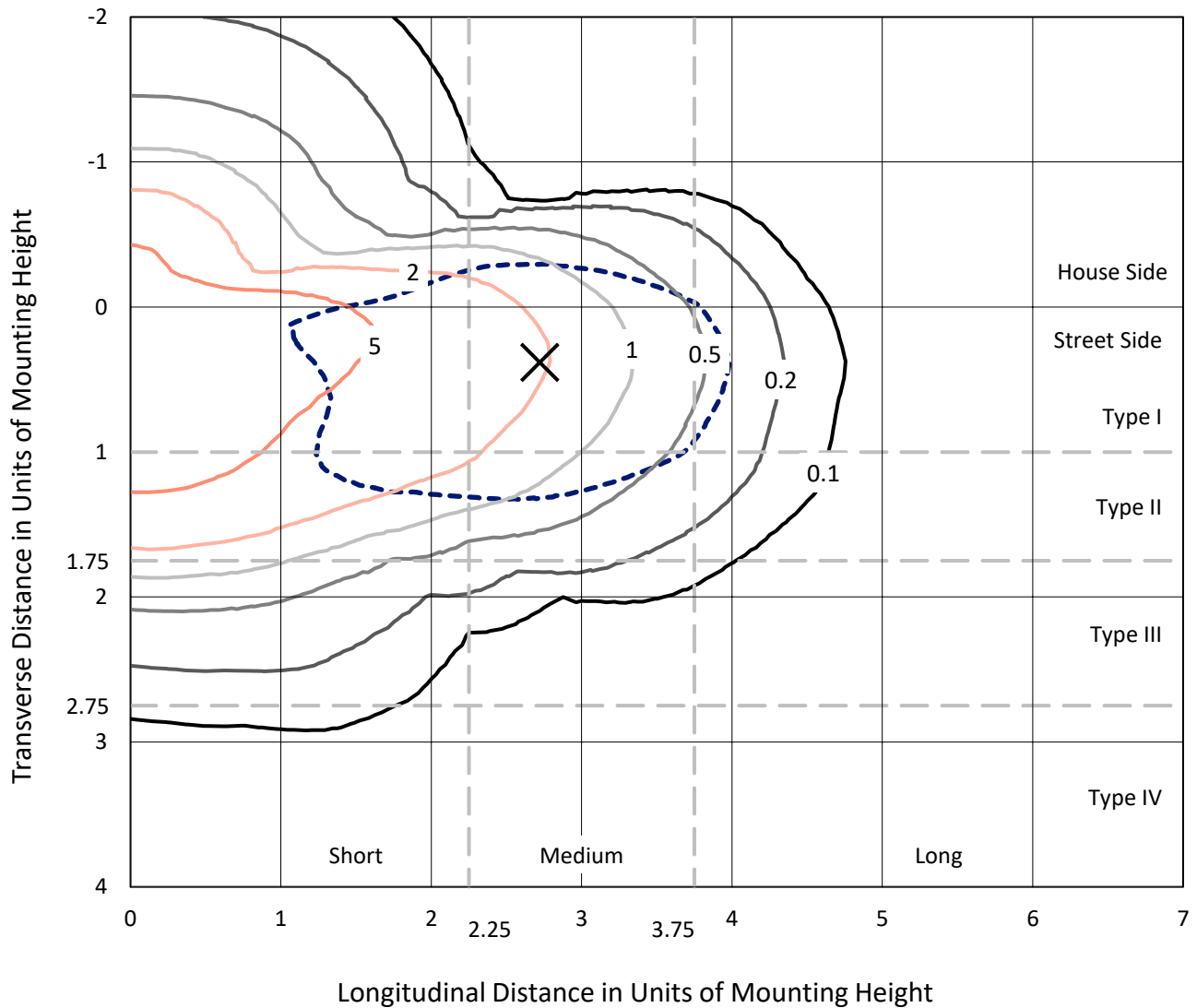
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

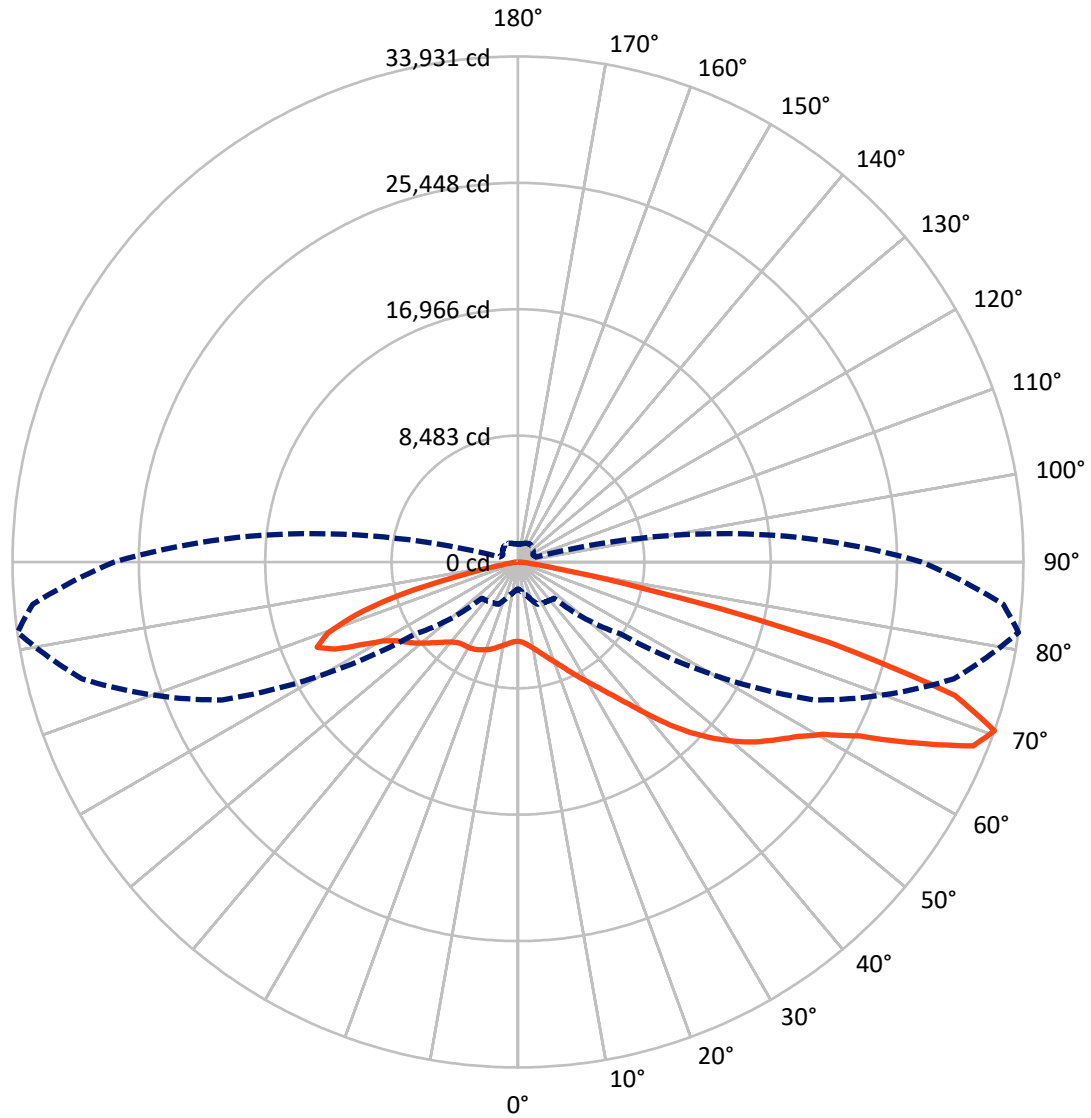
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8951.3	0.0	8951.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	27358.7	0.0	27358.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	36310.0	0.0	36310.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.6	1.4
10°-20°	1444.1	4.0
20°-30°	2415.8	6.7
30°-40°	3774.1	10.4
40°-50°	6010.8	16.6
50°-60°	8364.7	23.0
60°-70°	8749.9	24.1
70°-80°	4573.1	12.6
80°-90°	474.9	1.3
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°	36310.0	100.0
0°-180°	36310.0	100.0

**Coefficient of Utilization**



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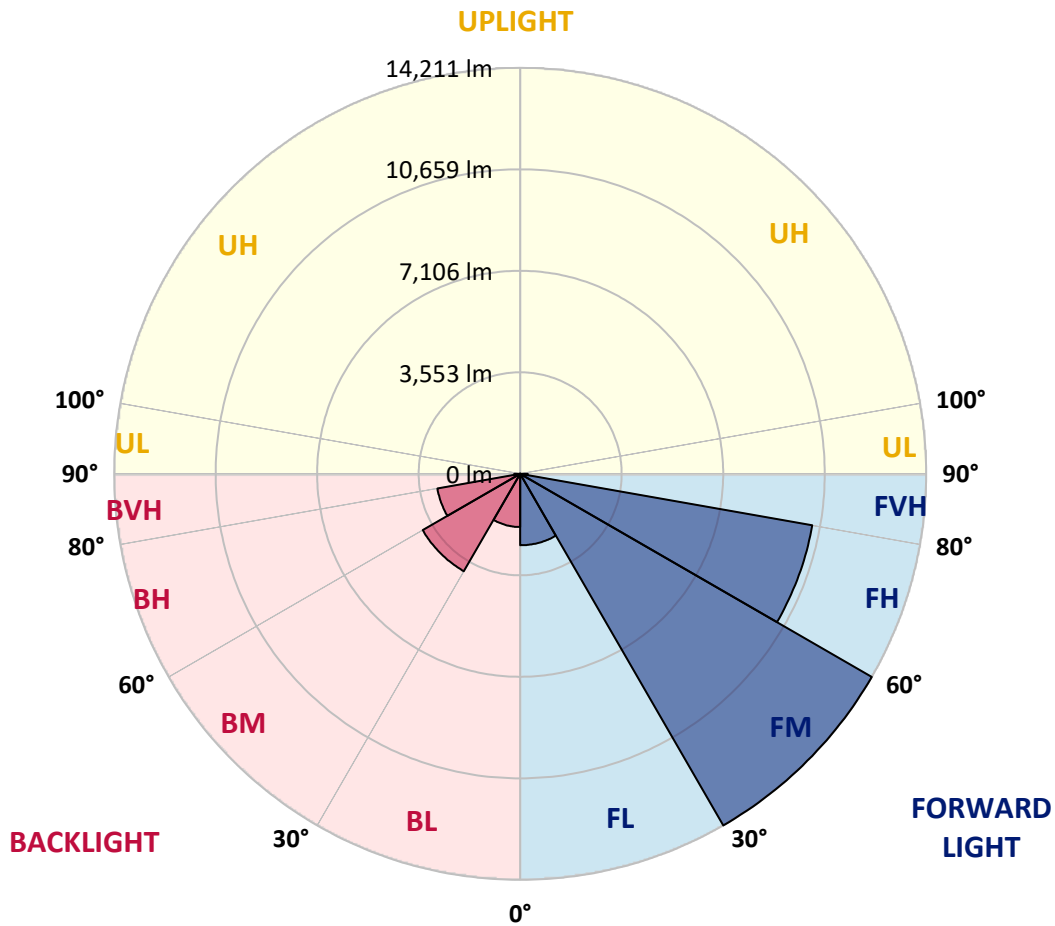
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2500.3	6.9			
FM (30°-60°)	14211.4	39.1			
FH (60°-80°)	10381.1	28.6			G4/12000
FVH (80°-90°)	265.8	0.7			G3/500
BL (0°-30°)	1862.2	5.1	B3/2500		
BM (30°-60°)	3938.2	10.8	B3/5000		
BH (60°-80°)	2941.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	209.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5
2.5°	5450.7	5481.5	5471.9	5462.2	5462.2	5448.7	5446.8	5427.5	5412.1	5387.1
5°	5520.0	5552.8	5548.9	5556.6	5581.7	5587.5	5593.2	5581.7	5550.9	5520.0
7.5°	5458.4	5495.0	5506.5	5552.8	5629.8	5699.2	5751.2	5772.4	5743.5	5699.2
10°	5250.3	5290.7	5331.2	5441.0	5577.8	5741.6	5880.3	5963.2	5957.4	5915.0
12.5°	4828.3	4870.7	4957.4	5171.3	5421.8	5710.8	5968.9	6142.4	6202.1	6171.3
15°	4491.2	4527.8	4593.3	4812.9	5138.5	5577.8	6001.7	6338.9	6491.1	6473.7
17.5°	4481.5	4496.9	4537.4	4641.4	4891.9	5369.7	5967.0	6531.5	6822.5	6820.6
20°	4651.1	4656.9	4680.0	4701.2	4843.7	5211.8	5878.4	6691.5	7194.3	7194.3
22.5°	4886.1	4882.3	4905.4	4886.1	4955.5	5198.3	5822.5	6832.1	7608.6	7639.4
25°	5238.7	5219.5	5213.7	5169.4	5182.9	5323.5	5884.2	6992.0	8099.9	8163.5
27.5°	5708.8	5678.0	5656.8	5554.7	5520.0	5581.7	6073.0	7184.7	8647.1	8756.9
30°	6321.5	6265.7	6234.8	6057.6	5932.3	5942.0	6358.1	7441.0	9219.3	9396.6
32.5°	7157.7	7071.0	6988.2	6697.2	6468.0	6392.8	6726.1	7795.5	9839.7	10122.9
35°	8094.1	8024.7	7936.1	7487.2	7134.6	6961.2	7223.2	8290.6	10566.1	11015.0
37.5°	8995.8	8936.1	8978.5	8373.5	7918.8	7666.4	7874.5	8955.3	11462.0	12124.8
40°	9928.3	9882.1	9887.9	9309.9	8780.0	8496.8	8664.4	9789.6	12488.9	13444.6
42.5°	10941.8	10907.1	10791.5	10279.0	9683.6	9419.7	9573.8	10753.0	13591.0	14947.4
45°	12076.6	12055.4	11947.5	11359.9	10677.8	10381.1	10589.2	11816.5	14698.9	16361.6
47.5°	13057.3	13074.7	13061.2	12566.0	11858.9	11423.5	11672.0	12926.3	15729.7	17691.1
50°	13529.4	13619.9	13752.9	13598.7	13159.4	12716.3	12764.5	13997.5	16712.3	18937.6
52.5°	13282.7	13454.2	13816.4	14063.1	14232.6	14140.1	14011.0	15061.1	17637.1	20062.8
55°	12363.7	12604.5	13205.7	13801.0	14666.1	15338.5	15508.1	16240.2	18538.8	21053.2
57.5°	10689.4	11080.5	11620.0	12824.2	14280.8	15918.5	17253.7	17876.0	19494.5	22110.9
60°	7818.6	8342.7	9013.1	10805.0	12932.1	15608.3	18739.2	20388.4	20852.8	23480.8
62.5°	5003.7	5327.4	5943.9	7631.7	10076.7	14018.7	19193.9	23529.0	23155.2	25727.4
65°	3425.7	3633.8	4198.3	5146.2	6514.2	10435.1	17976.2	25883.4	26812.1	29287.9
67.5°	2489.3	2647.3	3129.0	3959.4	4244.5	6175.1	13949.4	25775.5	30366.9	32956.4
70°	1815.0	1926.7	2331.3	3129.0	3265.8	3435.3	8450.6	21910.5	30289.8	33931.3
72.5°	1344.8	1421.9	1693.6	2427.7	2643.4	2319.8	4182.9	15924.3	26027.9	30690.6
75°	973.0	1030.8	1231.2	1857.3	2115.5	1766.8	2086.6	9306.0	18155.4	21588.8
77.5°	743.7	788.0	919.0	1360.3	1693.6	1325.6	1294.7	4281.1	8608.5	8650.9
80°	597.3	626.2	697.5	957.6	1298.6	992.3	843.9	1728.3	2720.5	2302.4
82.5°	439.3	487.5	589.6	672.4	928.7	684.0	514.4	872.8	1034.6	890.1
85°	250.5	283.2	356.4	481.7	593.4	418.1	294.8	387.3	481.7	395.0
87.5°	88.6	115.6	125.2	188.8	258.2	173.4	113.7	111.7	158.0	117.5
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°
5323.5	0°	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5
5381.3	2.5°	5362.0	5352.4	5313.9	5261.8	5207.9	5155.9	5138.5	5101.9	5076.9	5063.4
5506.5	5°	5469.9	5439.1	5348.5	5232.9	5111.6	4980.5	4888.1	4803.3	4741.6	4683.8
5678.0	7.5°	5624.1	5570.1	5414.1	5211.8	4996.0	4778.2	4616.4	4493.1	4410.2	4356.3
5878.4	10°	5803.3	5720.4	5481.5	5179.0	4845.7	4533.5	4342.8	4236.8	4184.8	4155.9
6107.7	12.5°	6009.4	5891.9	5550.9	5103.9	4616.4	4260.0	4128.9	4098.1	4100.0	4102.0
6396.7	15°	6263.7	6100.0	5606.7	4940.1	4317.8	4049.9	4026.8	4076.9	4128.9	4154.0
6724.2	17.5°	6550.8	6319.6	5616.4	4670.3	4024.9	3915.1	3988.3	4096.2	4175.2	4209.9
7090.3	20°	6859.1	6543.1	5547.0	4288.9	3784.1	3805.3	3936.3	4075.0	4161.7	4206.0
7508.4	22.5°	7211.7	6782.0	5381.3	3888.1	3587.5	3685.8	3839.9	3974.8	4065.4	4109.7
7999.7	25°	7614.4	7049.8	5121.2	3550.9	3418.0	3550.9	3705.1	3816.8	3890.0	3930.5
8548.8	27.5°	8061.4	7329.2	4774.4	3283.1	3269.6	3412.2	3539.4	3626.1	3664.6	3695.4
9132.6	30°	8510.3	7583.5	4354.4	3080.8	3140.5	3275.4	3366.0	3404.5	3416.1	3421.8
9783.8	32.5°	8995.8	7803.2	3913.1	2913.2	3017.2	3142.5	3196.4	3213.8	3159.8	3123.2
10573.8	35°	9583.5	8038.2	3481.6	2780.2	2895.8	3003.7	3021.1	3005.7	2942.1	2866.9
11564.1	37.5°	10309.8	8331.1	3136.7	2685.8	2782.2	2853.5	2832.3	2828.4	2834.2	2745.6
12754.8	40°	11200.0	8712.6	2884.3	2612.6	2689.7	2705.1	2645.4	2678.1	2707.0	2572.2
14061.1	42.5°	12188.4	9173.1	2724.4	2562.5	2612.6	2576.0	2483.5	2520.1	2516.3	2339.0
15373.2	45°	13196.0	9674.0	2668.5	2525.9	2541.3	2468.1	2366.0	2375.6	2294.7	2134.8
16631.4	47.5°	14197.9	10211.6	2703.2	2495.1	2452.7	2369.9	2290.9	2248.5	2129.0	2009.6
17837.5	50°	15180.5	10776.1	2830.3	2433.4	2331.3	2283.2	2225.4	2150.2	2023.0	1920.9
18978.1	52.5°	16091.9	11344.5	2972.9	2331.3	2179.1	2208.0	2171.4	2084.7	1959.5	1855.4
20057.1	55°	16955.0	11912.8	3028.8	2190.7	2036.5	2142.5	2121.3	1961.4	1811.1	1726.3
21186.1	57.5°	17895.3	12596.8	2967.1	2011.5	1920.9	2067.4	1986.4	1809.2	1722.5	1658.9
22656.2	60°	19197.7	13670.0	2834.2	1789.9	1811.1	1955.6	1816.9	1743.7	1649.3	1578.0
24860.3	62.5°	21361.4	15671.9	2620.3	1570.3	1682.0	1789.9	1736.0	1662.8	1566.4	1497.1
28629.0	65°	24559.8	18454.0	2217.6	1398.8	1537.5	1628.1	1649.3	1576.0	1475.9	1402.6
31931.4	67.5°	27257.2	20199.6	1678.2	1256.2	1389.2	1497.1	1556.8	1485.5	1379.5	1308.2
32704.0	70°	27108.8	18931.9	1281.3	1115.6	1258.1	1368.0	1445.0	1389.2	1275.5	1208.0
29706.0	72.5°	24078.1	15837.6	1036.6	973.0	1125.2	1233.1	1325.6	1283.2	1167.6	1102.1
21762.2	75°	17689.1	11242.4	828.5	828.5	959.5	1092.4	1194.6	1167.6	1061.6	1015.4
9136.5	77.5°	7456.4	4716.6	649.3	687.8	797.7	938.3	1065.5	1075.1	982.6	1040.4
2416.1	80°	1982.6	1300.5	495.2	541.4	626.2	774.5	926.7	922.9	822.7	768.8
897.8	82.5°	755.3	512.5	352.6	381.5	452.8	593.4	734.1	757.2	657.0	568.4
352.6	85°	290.9	219.6	217.7	229.3	264.0	393.0	554.9	574.2	495.2	420.0
98.3	87.5°	75.1	65.5	80.9	77.1	121.4	210.0	317.9	329.5	302.5	175.3
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°  
5323.5  
5078.8  
4707.0  
4367.9  
4163.6  
4105.8  
4152.1  
4217.6  
4217.6  
4121.2  
3942.0  
3707.0  
3435.3  
3134.8  
2870.8  
2751.3  
2576.0  
2337.1  
2140.6  
2009.6  
1913.2  
1857.3  
1718.6  
1653.1  
1574.1  
1497.1  
1406.5  
1310.2  
*1213.8*  
1102.1  
1001.9  
944.1  
714.8  
568.4  
433.5  
250.5  
0.0

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