

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: P940619

Luminaire Tested: **GALN-SB3D-735-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

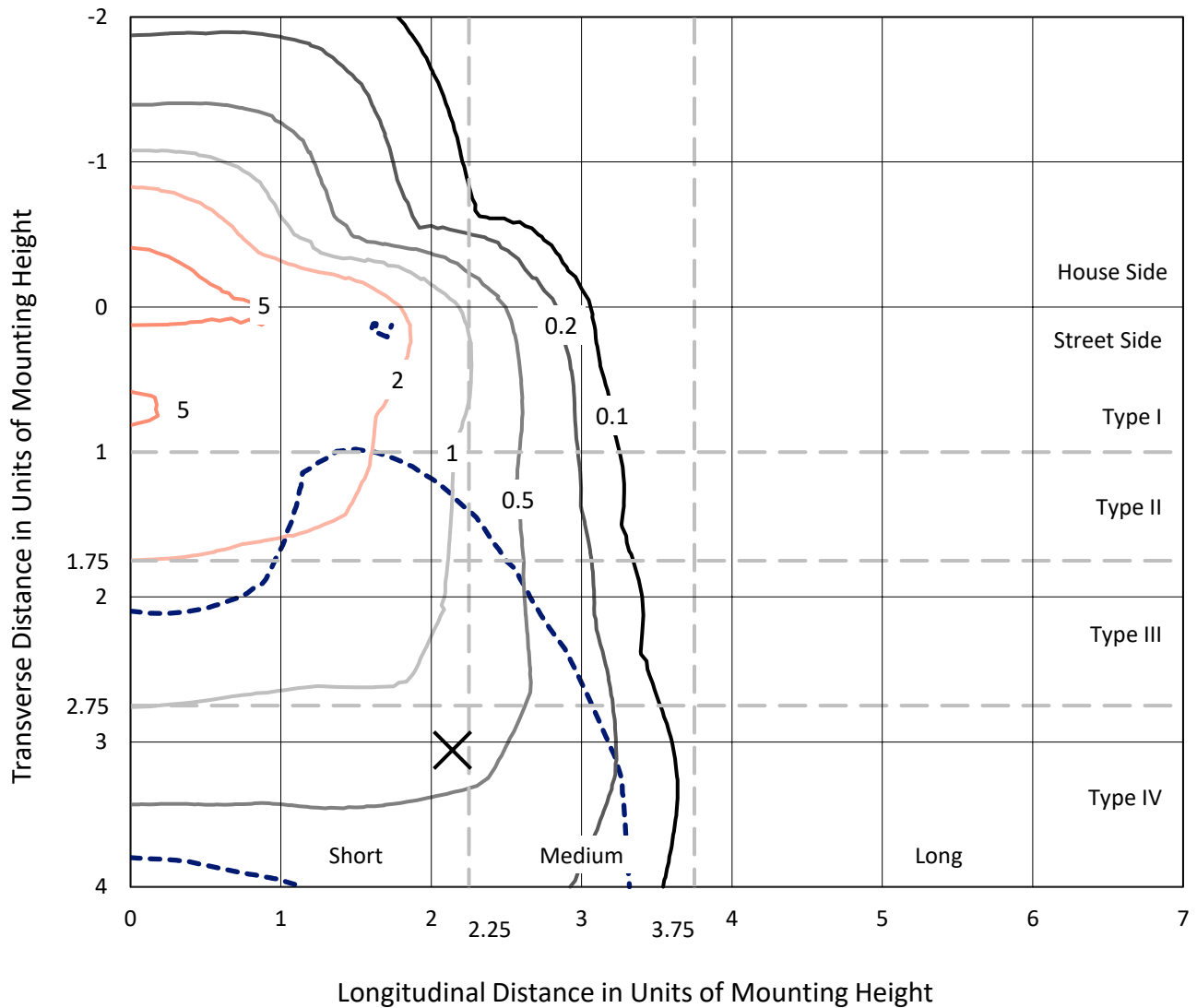
Lumens per Lamp: N/A  
Luminaire Lumens: 30177 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

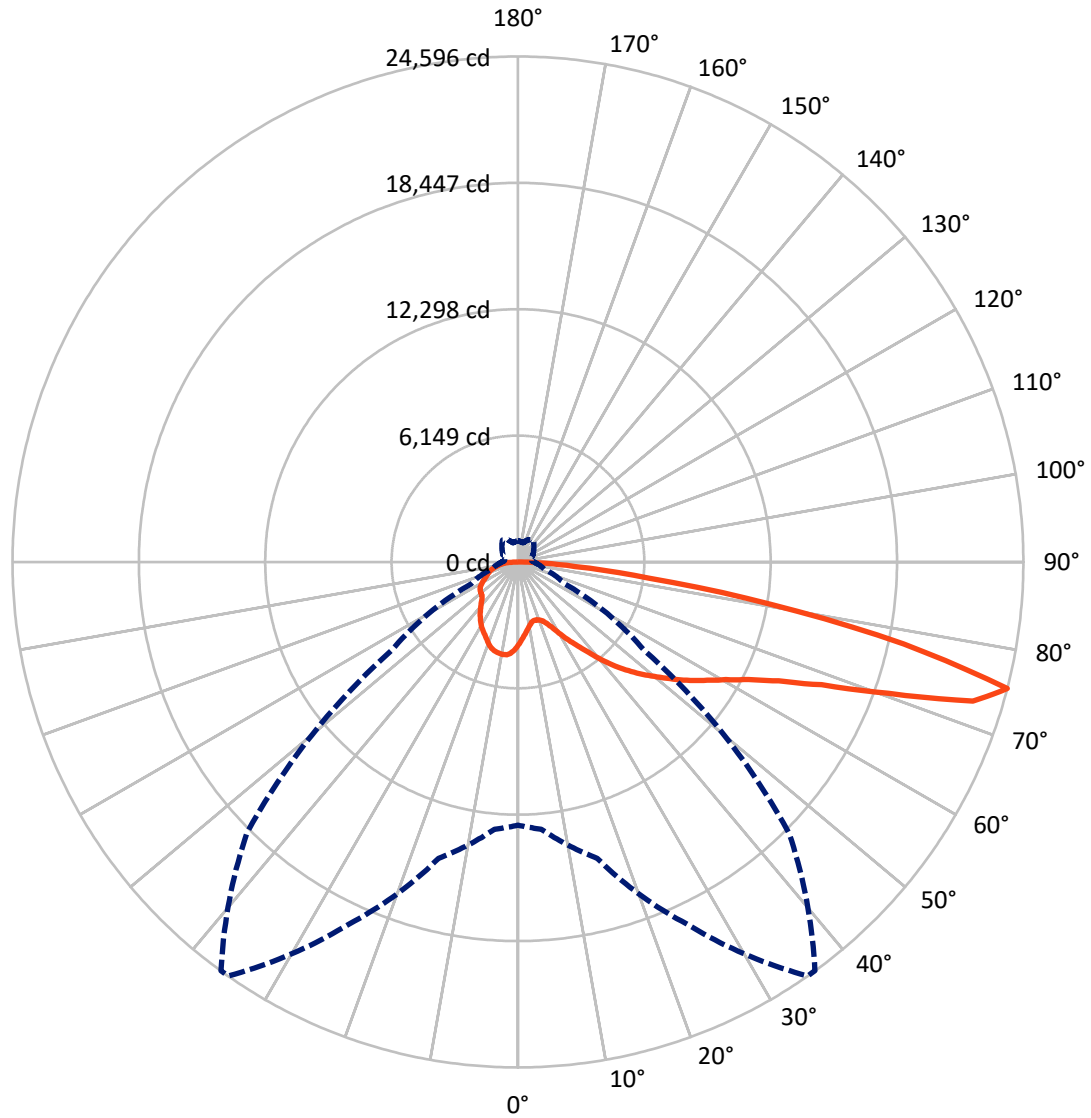
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7181.4	0.0	7181.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	22995.6	0.0	22995.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	30177.0	0.0	30177.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.7	1.3
10°-20°	1098.2	3.6
20°-30°	1844.2	6.1
30°-40°	2866.1	9.5
40°-50°	4254.1	14.1
50°-60°	5873.0	19.5
60°-70°	7125.3	23.6
70°-80°	5888.5	19.5
80°-90°	846.9	2.8
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°	30177.0	100.0
0°-180°	30177.0	100.0

**Coefficient of Utilization**



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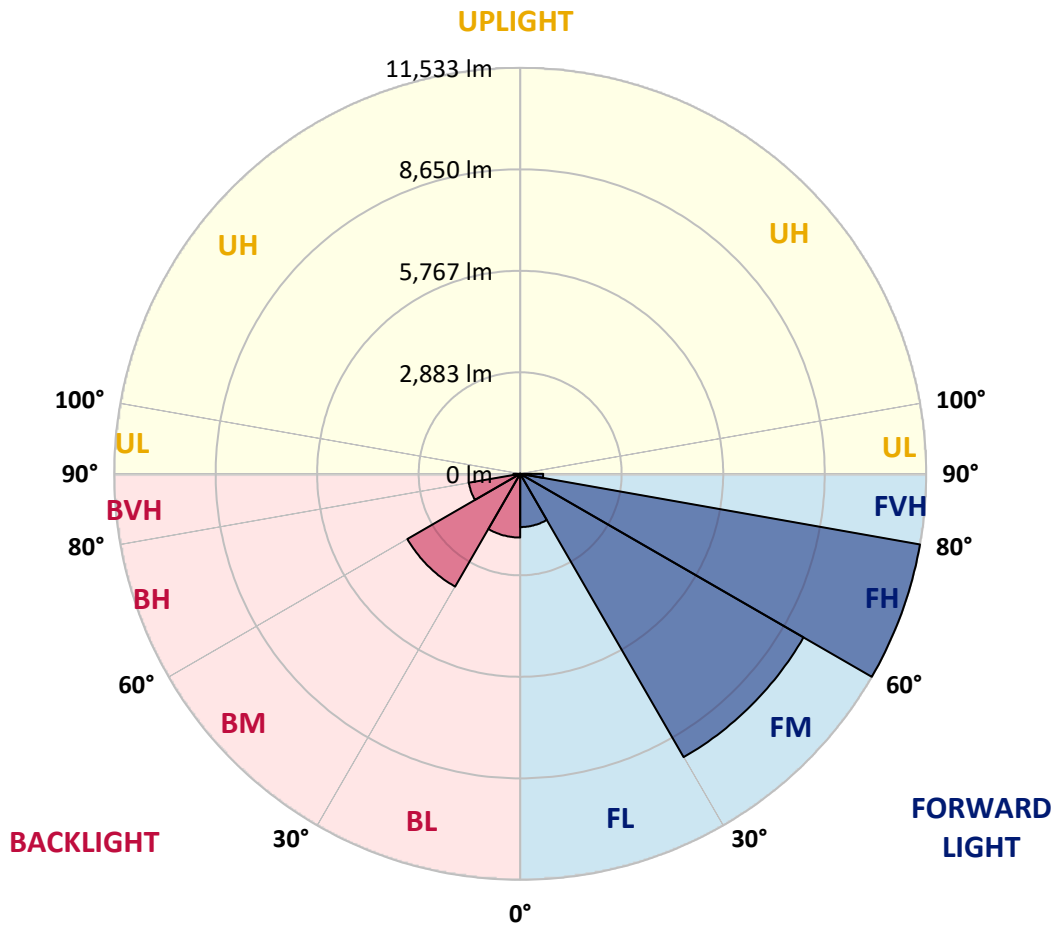
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.3	5.0			
FM (30°-60°)	9292.9	30.8			
FH (60°-80°)	11533.2	38.2			G4/12000
FVH (80°-90°)	656.2	2.2			G4/750
BL (0°-30°)	1809.8	6.0	B3/2500		
BM (30°-60°)	3700.3	12.3	B3/5000		
BH (60°-80°)	1480.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	190.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3
2.5°	3708.1	3730.9	3740.7	3735.8	3760.3	3757.0	3791.3	3833.7	3892.4	3949.5
5°	3422.6	3447.1	3468.3	3487.8	3535.1	3549.8	3603.7	3685.2	3792.9	3902.2
7.5°	3156.7	3177.9	3210.5	3246.4	3326.3	3341.0	3430.7	3558.0	3708.1	3867.9
10°	2939.7	2960.9	2995.2	3036.0	3135.5	3153.4	3267.6	3437.3	3633.0	3835.3
12.5°	2846.7	2853.2	2872.8	2913.6	3000.1	3011.5	3137.1	3331.2	3559.6	3810.8
15°	2841.8	2854.9	2856.5	2877.7	2949.5	2954.4	3070.2	3262.7	3513.9	3806.0
17.5°	2890.8	2900.5	2885.9	2898.9	2959.3	2967.4	3058.8	3230.1	3499.3	3827.2
20°	3021.3	3029.4	2985.4	2967.4	3011.5	3018.0	3107.7	3251.3	3513.9	3871.2
22.5°	3298.6	3303.5	3195.8	3122.4	3125.7	3128.9	3207.2	3337.8	3571.0	3951.1
25°	3730.9	3727.6	3556.4	3414.4	3332.9	3314.9	3367.1	3478.0	3667.3	4057.2
27.5°	4236.6	4212.2	4040.9	3828.8	3651.0	3624.9	3613.5	3660.8	3804.3	4197.5
30°	4807.6	4784.8	4600.4	4323.1	4076.8	4034.3	3926.7	3902.2	4008.2	4388.3
32.5°	5434.0	5419.4	5199.1	4863.1	4533.5	4484.6	4303.5	4238.3	4321.5	4677.1
35°	5959.3	5946.3	5763.6	5417.7	5014.8	4954.4	4770.1	4696.7	4739.1	5047.4
37.5°	6434.1	6427.5	6270.9	5998.5	5582.5	5509.1	5301.9	5277.4	5269.3	5535.2
40°	6874.5	6858.2	6695.1	6551.5	6243.2	6176.3	5993.6	5972.4	5910.4	6135.5
42.5°	7362.3	7319.9	7083.3	7016.5	6933.3	6877.8	6768.5	6771.8	6634.7	6812.5
45°	7760.4	7735.9	7492.8	7453.7	7543.4	7520.5	7615.2	7639.6	7373.7	7522.2
47.5°	8187.8	8164.9	7959.4	7931.6	8174.7	8181.2	8515.7	8523.8	8094.8	8259.5
50°	8714.7	8682.1	8478.2	8512.4	8784.8	8809.3	9421.1	9365.6	8758.7	9008.3
52.5°	9062.2	9081.8	9037.7	9093.2	9465.1	9488.0	10311.8	10169.9	9416.2	9747.3
55°	9318.3	9357.5	9494.5	9621.7	10182.9	10205.8	11151.9	10935.0	9961.1	10432.5
57.5°	9647.8	9592.4	9848.5	10096.5	10864.8	10925.2	11969.2	11672.3	10443.9	11023.1
60°	10120.9	10081.8	10280.8	10647.9	11628.3	11724.5	12833.9	12336.3	10797.9	11491.3
62.5°	11080.2	10982.3	11013.3	11337.9	12590.8	12718.0	13809.4	12915.4	10974.1	11674.0
65°	12514.1	12346.1	12189.5	12414.6	13946.5	14072.1	14910.6	13370.6	10908.9	11320.0
67.5°	14320.0	14153.6	13961.1	14173.2	15943.2	16042.7	16269.5	13626.7	10395.0	9956.2
70°	15809.5	15747.5	15977.5	16850.3	19132.5	19135.8	18011.8	13414.6	8987.1	7058.9
72.5°	15612.1	15574.5	16786.6	19484.9	23152.2	23065.7	19661.1	11809.4	6054.0	3184.4
75°	12807.8	13050.8	14928.5	19437.6	24595.9	24584.5	18651.3	7507.5	2504.1	1319.8
77.5°	6868.0	7253.0	9691.9	14351.0	19201.0	19489.8	13112.8	2626.5	1075.1	845.0
80°	2239.9	2575.9	3863.0	7306.8	12476.6	12422.8	5620.0	1031.0	735.7	598.7
82.5°	951.1	990.2	1726.0	3450.3	6403.1	6303.6	1789.6	592.2	517.1	409.5
85°	371.9	416.0	761.8	1595.5	2773.3	2712.9	646.0	293.6	331.2	267.5
87.5°	122.4	148.5	272.4	546.5	863.0	832.0	158.2	101.1	143.6	122.4
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°
4021.3	0°	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3
4032.7	2.5°	4055.5	4081.6	4112.6	4158.3	4197.5	4230.1	4264.4	4285.6	4293.7	4318.2
4039.2	5°	4084.9	4142.0	4218.7	4293.7	4367.1	4411.2	4450.3	4469.9	4487.9	4500.9
4057.2	7.5°	4133.9	4207.3	4328.0	4425.9	4487.9	4523.7	4549.8	4543.3	4549.8	4553.1
4076.8	10°	4176.3	4279.0	4422.6	4515.6	4562.9	4564.5	4558.0	4535.2	4523.7	4525.4
4106.1	12.5°	4226.8	4341.0	4496.0	4574.3	4587.4	4551.5	4523.7	4484.6	4469.9	4463.4
4150.2	15°	4295.4	4425.9	4575.9	4605.3	4572.7	4527.0	4479.7	4416.1	4383.5	4357.3
4225.2	17.5°	4378.6	4522.1	4637.9	4616.7	4546.6	4471.5	4394.9	4298.6	4231.7	4204.0
4328.0	20°	4494.4	4623.3	4685.3	4592.3	4486.2	4372.0	4241.5	4124.1	4062.1	4034.3
4458.5	22.5°	4634.7	4758.7	4730.9	4549.8	4399.8	4217.1	4053.9	3967.5	3936.5	3916.9
4626.5	25°	4802.7	4908.7	4763.6	4487.9	4257.8	4011.5	3885.9	3858.2	3843.5	3828.8
4832.1	27.5°	5021.3	5078.4	4788.0	4396.5	4036.0	3792.9	3747.2	3752.1	3747.2	3722.8
5117.6	30°	5310.1	5298.6	4810.9	4248.0	3781.5	3595.5	3598.8	3620.0	3623.2	3606.9
5515.6	32.5°	5690.2	5574.3	4822.3	4055.5	3538.4	3422.6	3425.8	3448.7	3465.0	3437.3
6036.0	35°	6150.2	5895.7	4804.3	3814.1	3350.8	3257.8	3233.3	3239.9	3244.8	3218.7
6667.3	37.5°	6686.9	6256.2	4724.4	3546.6	3195.8	3096.3	3044.1	3000.1	2974.0	2949.5
7381.9	40°	7275.8	6649.4	4577.6	3285.5	3022.9	2925.0	2846.7	2763.5	2675.4	2642.8
8138.8	42.5°	7892.5	7054.0	4399.8	3036.0	2823.9	2743.9	2660.7	2540.0	2407.9	2341.0
8925.1	45°	8532.0	7468.3	4225.2	2789.6	2620.0	2585.7	2489.4	2344.3	2200.7	2115.9
9713.1	47.5°	9158.4	7859.9	3969.1	2541.7	2429.1	2466.6	2391.6	2257.8	2097.9	1964.2
10494.5	50°	9757.1	8226.9	3549.8	2290.4	2274.1	2430.7	2358.9	2166.4	1983.7	1812.4
11261.2	52.5°	10350.9	8523.8	3013.1	2062.0	2190.9	2420.9	2316.5	2104.4	1881.0	1701.5
11982.3	55°	10855.0	8677.2	2496.0	1866.3	2070.2	2337.7	2266.0	2031.0	1735.8	1544.9
12476.6	57.5°	11142.2	8553.2	2065.3	1673.8	1903.8	2200.7	2179.5	1874.4	1562.8	1416.0
12572.9	60°	11018.2	8050.7	1712.9	1505.7	1745.5	2052.2	2029.4	1719.4	1430.7	1292.0
12057.3	62.5°	10334.6	7093.1	1434.0	1358.9	1602.0	1900.5	1879.3	1600.4	1329.6	1195.8
10688.6	65°	8957.8	5770.1	1217.0	1236.6	1456.8	1717.8	1748.8	1500.8	1249.6	1119.1
8269.3	67.5°	6832.1	4179.5	1047.3	1130.5	1314.9	1538.4	1628.1	1429.1	1182.7	1058.7
4784.8	70°	3894.0	2373.6	903.8	1027.8	1189.3	1372.0	1535.1	1372.0	1111.0	1008.2
1792.9	72.5°	1476.4	1089.7	781.4	925.0	1068.5	1231.7	1432.3	1282.2	1027.8	951.1
926.6	75°	787.9	664.0	657.4	804.3	929.9	1094.6	1303.5	1194.2	965.8	1004.9
641.1	77.5°	536.7	469.8	549.8	688.4	778.2	942.9	1166.4	1060.4	836.9	833.6
443.7	80°	371.9	332.8	447.0	554.7	602.0	792.8	1018.0	910.3	681.9	636.2
274.1	82.5°	223.5	217.0	334.4	414.4	425.8	611.8	843.4	763.5	557.9	486.1
163.1	85°	122.4	128.9	213.7	243.1	248.0	427.4	660.7	590.6	429.0	360.5
58.7	87.5°	34.3	44.0	78.3	96.2	119.1	221.9	393.2	350.7	215.3	150.1
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>
4021.3
4316.6
4504.2
4558.0
4528.6
4460.1
4365.5
4205.6
4031.1
3920.1
3828.8
3727.6
3615.1
3450.3
3236.6
2965.8
2657.5
2349.2
2109.3
1949.5
1797.8
1681.9
1528.6
1396.4
1272.5
1174.6
1097.9
1039.2
995.1
938.0
1037.5
768.4
608.5
489.4
363.8
150.1
0.0

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