

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: P941356

Luminaire Tested: **GALN-SB4D-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29667 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

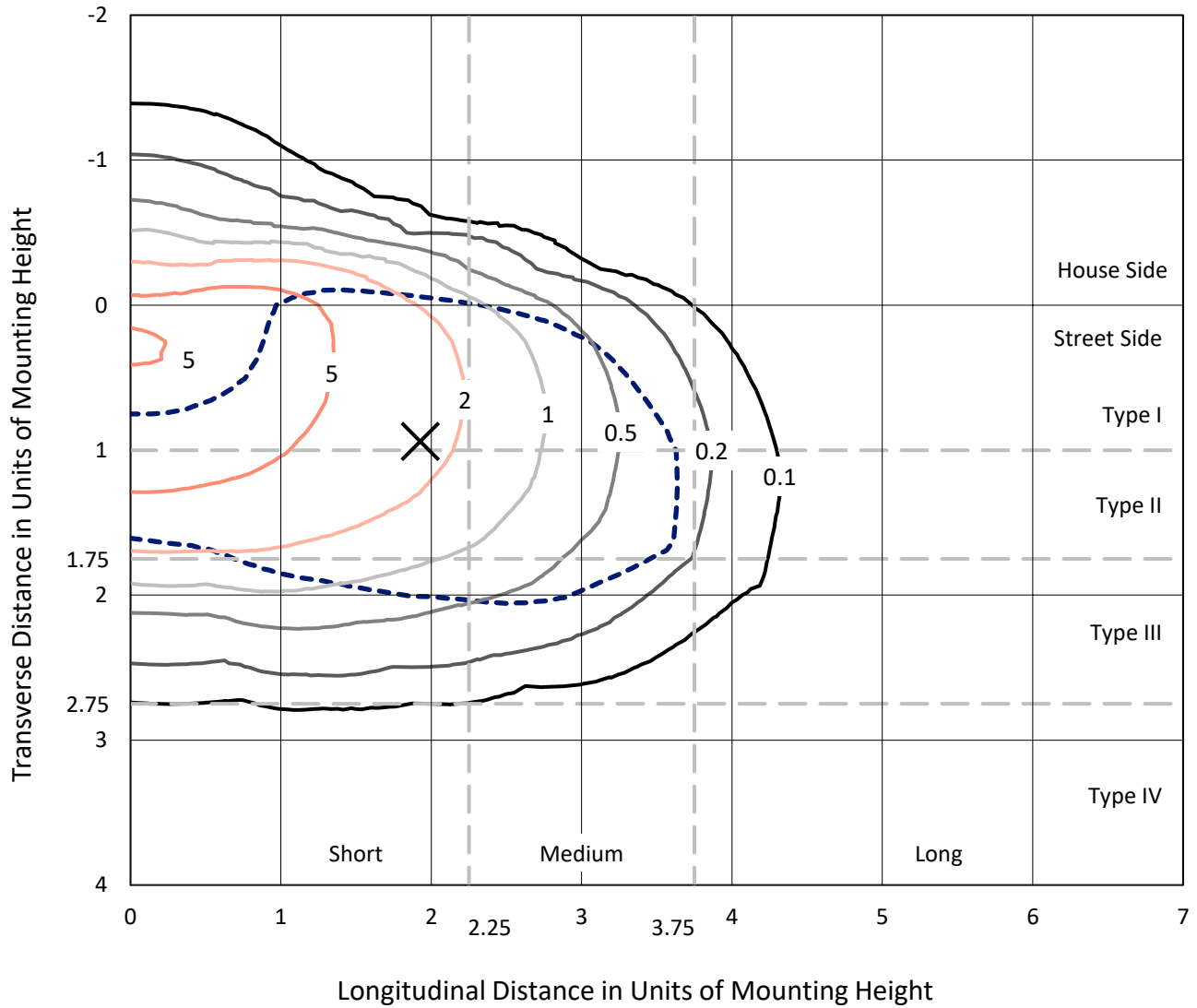
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

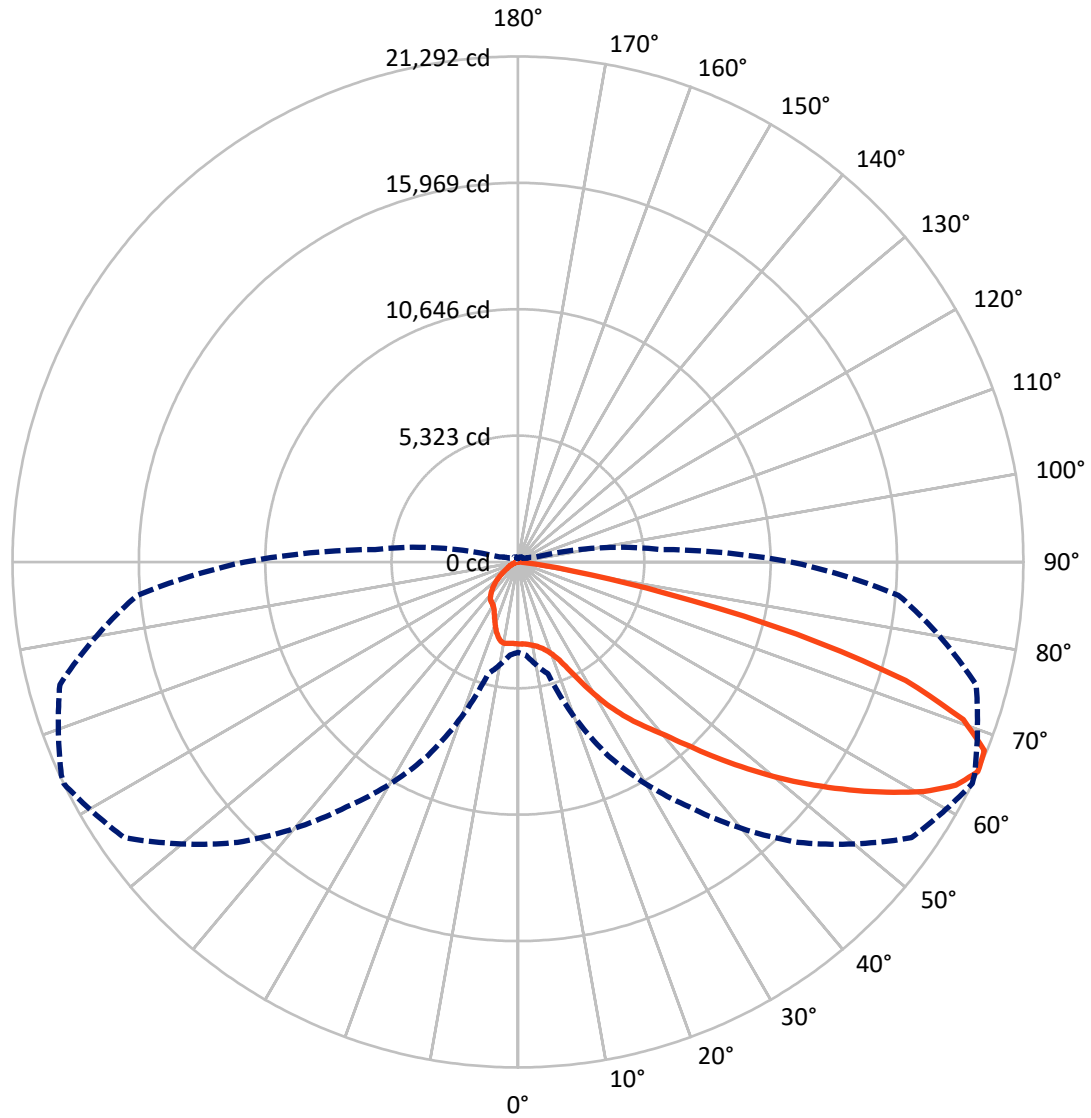
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3967.4	0.0	3967.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25699.6	0.0	25699.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	29667.0	0.0	29667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	1.1
10°-20°	863.5	2.9
20°-30°	1636.2	5.5
30°-40°	3310.9	11.2
40°-50°	5640.1	19.0
50°-60°	7670.1	25.9
60°-70°	7202.6	24.3
70°-80°	2885.7	9.7
80°-90°	139.8	0.5
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°	29667.0	100.0
0°-180°	29667.0	100.0

Coefficient of Utilization



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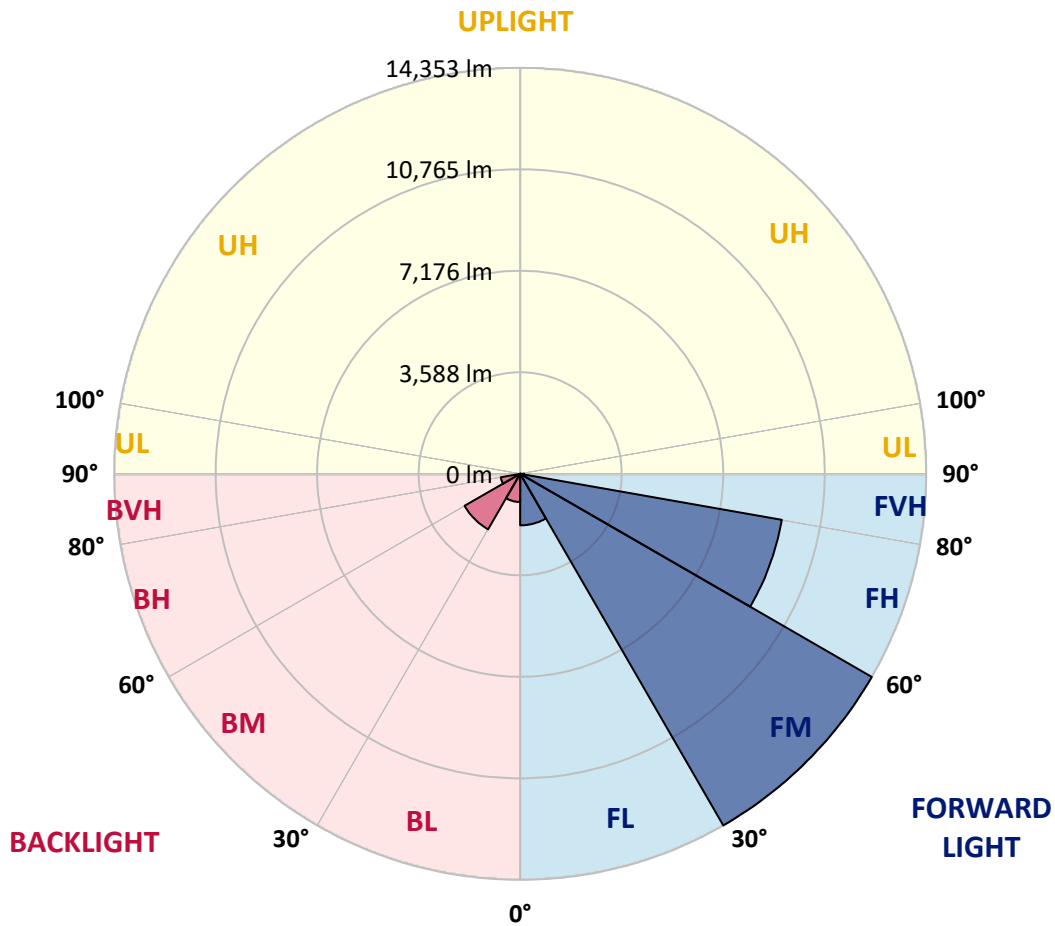
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.9	6.1			
FM (30°-60°)	14352.9	48.4			
FH (60°-80°)	9391.9	31.7			G4/12000
FVH (80°-90°)	133.0	0.4			G2/225
BL (0°-30°)	996.1	3.4	B2/1000		
BM (30°-60°)	2268.1	7.6	B2/2500		
BH (60°-80°)	696.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6
2.5°	3438.6	3462.5	3456.5	3450.6	3448.6	3452.6	3454.6	3452.6	3452.6	3452.6
5°	3373.0	3392.9	3392.9	3406.8	3426.7	3450.6	3468.5	3472.5	3476.4	3482.4
7.5°	3247.7	3263.6	3275.6	3321.3	3371.0	3434.7	3488.4	3516.2	3520.2	3542.1
10°	3162.2	3182.1	3202.0	3249.7	3321.3	3416.8	3508.3	3575.9	3585.8	3637.5
12.5°	3158.2	3178.1	3204.0	3255.7	3339.2	3440.6	3552.0	3649.5	3667.4	3742.9
15°	3200.0	3223.9	3247.7	3311.4	3400.9	3524.2	3643.5	3764.8	3782.7	3890.1
17.5°	3285.5	3317.3	3335.2	3398.9	3494.3	3631.6	3788.7	3927.9	3943.8	4069.1
20°	3454.6	3492.3	3498.3	3550.0	3643.5	3790.7	3977.6	4150.6	4170.5	4313.7
22.5°	3804.6	3858.3	3810.6	3836.4	3919.9	4067.1	4270.0	4488.7	4516.6	4679.7
25°	4421.1	4496.7	4373.4	4329.6	4365.4	4518.6	4773.1	5049.6	5081.4	5212.7
27.5°	5632.3	5534.8	5347.9	5164.9	5057.5	5145.0	5431.4	5773.5	5813.3	5940.6
30°	6962.8	6877.3	6624.7	6219.0	5964.4	5950.5	6215.0	6596.9	6642.6	6763.9
32.5°	8295.3	8213.8	7939.3	7440.1	6998.6	6779.8	6962.8	7386.4	7410.3	7487.9
35°	9605.9	9522.4	9248.0	8736.8	8193.9	7696.7	7660.9	8138.2	8146.2	8227.7
37.5°	10924.5	10854.9	10562.6	10061.4	9526.4	8840.2	8508.1	8850.2	8860.1	8939.7
40°	11865.2	11895.1	11694.2	11306.4	10847.0	10097.2	9458.8	9607.9	9548.3	9681.5
42.5°	12672.7	12732.3	12557.3	12362.4	12095.9	11435.6	10636.1	10610.3	10514.8	10586.4
45°	13370.7	13420.5	13263.4	13217.6	13211.6	12748.3	11922.9	11767.8	11634.5	11620.6
47.5°	13627.3	13722.8	13790.4	13943.5	14241.8	14046.9	13253.4	13012.8	12863.6	12754.2
50°	13724.8	13826.2	14056.9	14502.4	15208.4	15291.9	14578.0	14307.5	14124.5	13925.6
52.5°	13593.5	13774.5	14084.7	14834.5	15858.7	16290.3	15848.8	15612.1	15403.3	15079.1
55°	12819.8	13000.8	13635.3	14830.5	16182.9	16990.4	17050.0	16944.6	16710.0	16198.8
57.5°	11189.0	11457.5	12461.9	14325.4	16177.0	17593.0	18227.4	18303.0	18040.5	17308.6
60°	8929.7	9293.7	10518.8	13205.7	15677.8	17919.2	19259.6	19637.5	19359.0	18402.4
62.5°	6230.9	6652.6	7812.0	11451.6	14536.2	17684.5	20013.4	20711.4	20500.6	19380.9
65°	3800.6	3935.8	4870.6	9011.3	12595.1	16702.0	20246.1	21292.2	21222.6	19979.6
67.5°	2531.8	2645.1	2913.6	6179.2	9777.0	14739.0	19689.2	21190.7	21210.6	19882.1
70°	1525.4	1622.9	1797.9	3593.8	6336.3	11666.3	17964.9	19898.0	20013.4	18579.4
72.5°	628.5	694.1	853.2	1628.8	3281.5	7404.3	14305.5	17083.9	17352.3	15622.1
75°	356.0	389.8	501.2	817.4	1424.0	3450.6	8665.2	12127.7	12523.5	10767.4
77.5°	236.7	252.6	324.2	529.0	801.5	1177.4	3703.2	6318.4	7074.2	5880.9
80°	159.1	173.0	222.7	354.0	521.1	505.2	1179.4	2340.8	2879.8	2020.6
82.5°	107.4	109.4	159.1	232.7	330.1	244.6	348.0	727.9	914.9	584.7
85°	61.7	59.7	117.3	135.2	147.2	101.4	105.4	218.8	286.4	246.6
87.5°	8.0	11.9	45.7	35.8	19.9	21.9	21.9	37.8	55.7	59.7
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°
3450.6	0°	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6	3450.6
3454.6	2.5°	3454.6	3452.6	3446.6	3440.6	3426.7	3418.8	3422.7	3418.8	3416.8	3418.8
3480.4	5°	3480.4	3474.4	3458.5	3438.6	3410.8	3377.0	3355.1	3323.3	3293.5	3275.6
3550.0	7.5°	3550.0	3544.1	3522.2	3466.5	3377.0	3235.8	3106.5	2993.2	2907.6	2857.9
3661.4	10°	3661.4	3651.4	3617.6	3494.3	3259.7	2951.4	2694.8	2482.0	2342.8	2277.2
3792.7	12.5°	3792.7	3780.7	3721.1	3468.5	3036.9	2555.6	2201.6	1964.9	1835.7	1778.0
3943.8	15°	3947.8	3931.9	3814.5	3345.2	2712.7	2118.1	1793.9	1616.9	1533.4	1481.7
4136.7	17.5°	4140.7	4112.9	3884.1	3160.2	2360.7	1784.0	1543.3	1410.1	1336.5	1286.8
4389.3	20°	4391.3	4345.5	3939.8	2939.5	2036.5	1573.1	1374.3	1262.9	1207.2	1163.5
4747.3	22.5°	4741.3	4675.7	4007.4	2700.8	1807.8	1428.0	1249.0	1167.4	1121.7	1072.0
5246.5	25°	5174.9	5097.3	4091.0	2480.0	1650.7	1302.7	1157.5	1089.9	1036.2	978.5
5900.8	27.5°	5781.5	5642.2	4190.4	2299.1	1515.5	1195.3	1074.0	998.4	936.7	889.0
6642.6	30°	6457.7	6228.9	4277.9	2189.7	1392.2	1095.8	964.6	889.0	831.3	797.5
7308.9	32.5°	7098.1	6787.8	4335.6	2141.9	1280.8	982.5	845.2	763.7	719.9	710.0
7961.2	35°	7702.6	7293.0	4329.6	2096.2	1181.4	869.1	727.9	644.4	610.6	616.5
8663.2	37.5°	8398.7	7831.9	4287.9	2024.6	1099.8	765.7	626.5	552.9	523.1	525.0
9516.4	40°	9208.2	8454.4	4262.0	1889.4	1010.3	670.2	542.9	483.3	461.4	453.4
10415.4	42.5°	10071.3	9057.0	4266.0	1736.2	898.9	584.7	485.3	435.5	415.7	409.7
11415.8	45°	10938.4	9631.8	4272.0	1577.1	781.6	519.1	443.5	401.7	389.8	381.9
12430.0	47.5°	11753.8	10121.0	4160.6	1406.1	666.3	469.4	409.7	381.9	371.9	362.0
13448.3	50°	12513.6	10447.2	3892.1	1207.2	574.8	429.6	383.8	364.0	354.0	344.1
14371.1	52.5°	13104.2	10498.9	3448.6	1002.4	511.1	399.8	367.9	350.0	338.1	328.2
15116.9	55°	13366.8	10174.7	2818.1	811.4	461.4	373.9	352.0	334.1	320.2	310.3
15703.6	57.5°	13299.2	9492.6	2197.6	652.3	413.7	348.0	332.1	320.2	304.3	288.4
16178.9	60°	12967.0	8579.7	1656.7	542.9	369.9	320.2	310.3	300.3	278.4	254.6
16361.9	62.5°	12392.3	7432.2	1181.4	449.5	322.2	288.4	284.4	276.4	244.6	200.9
16091.4	65°	11513.2	6038.0	795.5	373.9	276.4	252.6	254.6	240.6	198.9	149.2
15101.0	67.5°	10228.4	4415.2	509.1	306.3	230.7	210.8	212.8	204.8	169.0	127.3
13223.6	70°	8591.6	2923.5	332.1	232.7	185.0	163.1	175.0	177.0	143.2	103.4
10148.9	72.5°	6298.6	1726.3	232.7	173.0	135.2	113.4	143.2	147.2	115.4	77.6
6105.6	75°	3589.8	819.4	175.0	125.3	83.5	79.6	111.4	111.4	79.6	51.7
2643.1	77.5°	1507.5	342.1	123.3	81.5	47.7	45.7	75.6	69.6	39.8	23.9
644.4	80°	435.5	153.1	65.6	39.8	19.9	17.9	29.8	21.9	9.9	4.0
244.6	82.5°	171.0	67.6	25.9	15.9	8.0	8.0	4.0	0.0	0.0	0.0
139.2	85°	101.4	27.8	11.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
29.8	87.5°	25.9	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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<u>180°</u>
3450.6
3426.7
3279.5
2859.9
2271.2
1772.0
1483.7
1282.8
1155.5
1064.0
972.5
879.1
791.5
716.0
616.5
533.0
451.5
407.7
381.9
362.0
344.1
326.2
308.3
286.4
250.6
196.9
145.2
121.3
99.4
73.6
47.7
23.9
4.0
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