

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: P952050

Luminaire Tested: **GALN-SB6A-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22647 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

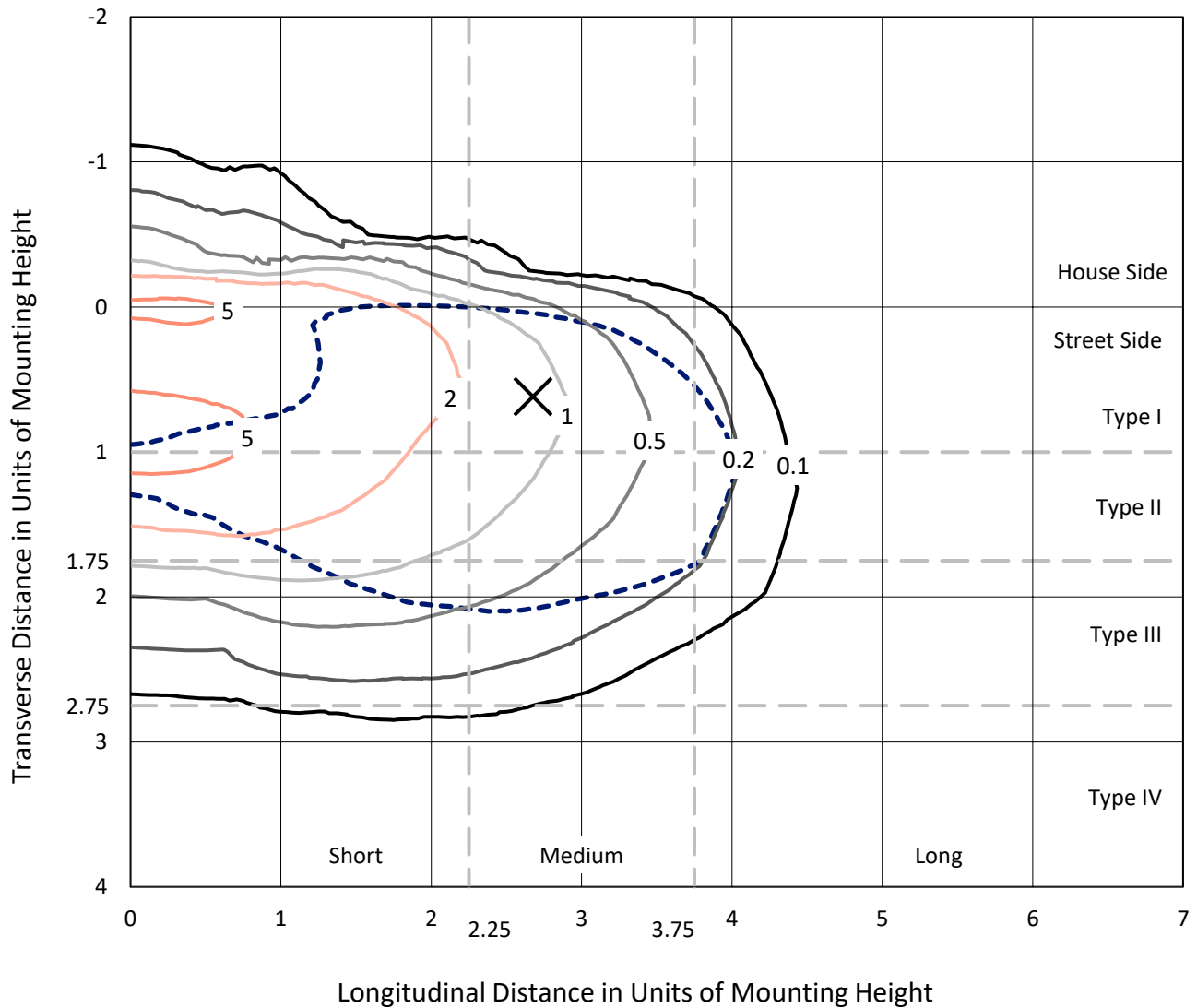
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

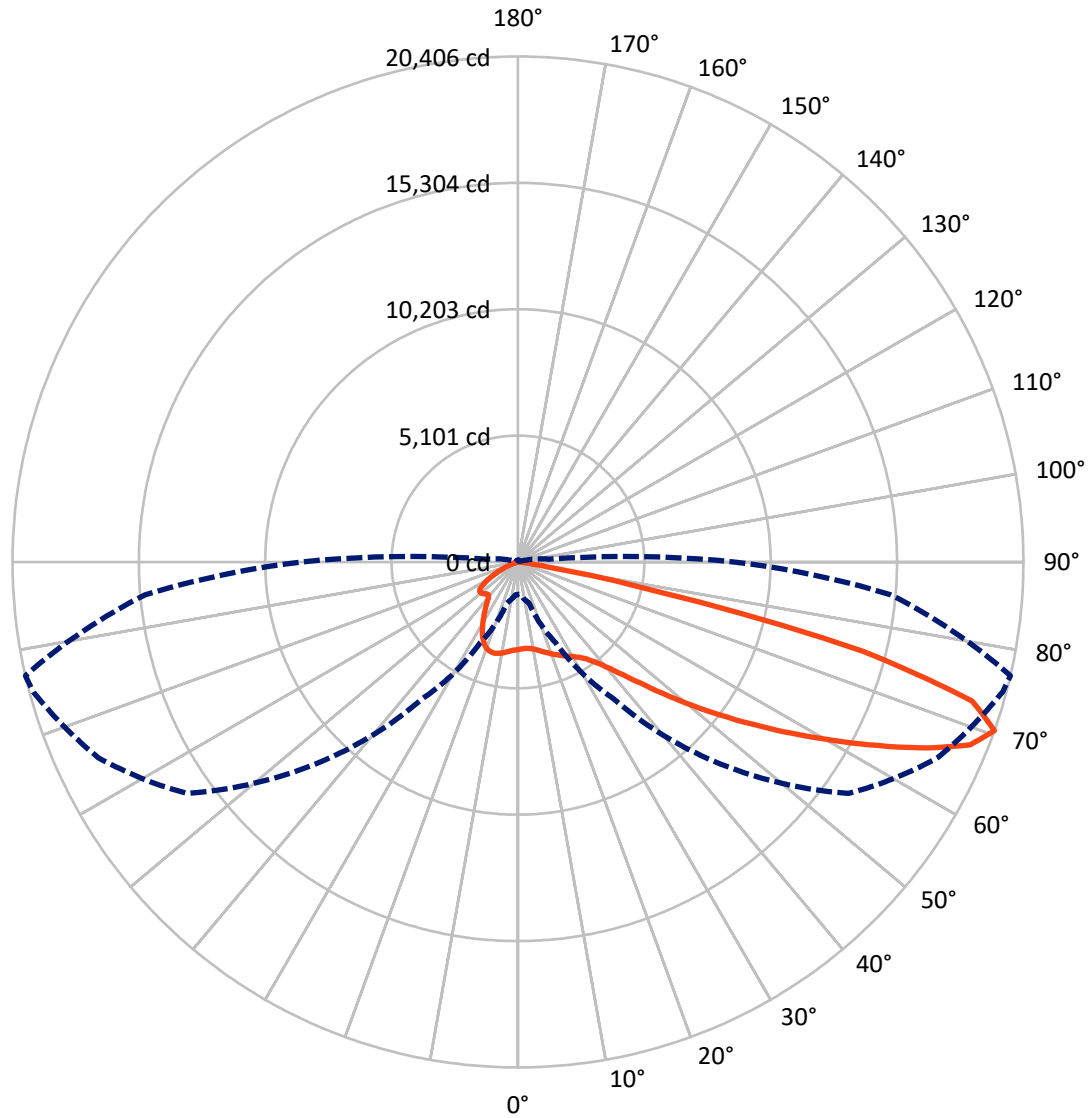
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.3	0.0	2387.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20259.7	0.0	20259.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	22647.0	0.0	22647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	1.3
10°-20°	722.7	3.2
20°-30°	1117.9	4.9
30°-40°	2028.4	9.0
40°-50°	3828.9	16.9
50°-60°	5532.4	24.4
60°-70°	5889.1	26.0
70°-80°	3120.8	13.8
80°-90°	102.5	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°	22647.0	100.0
0°-180°	22647.0	100.0

Coefficient of Utilization



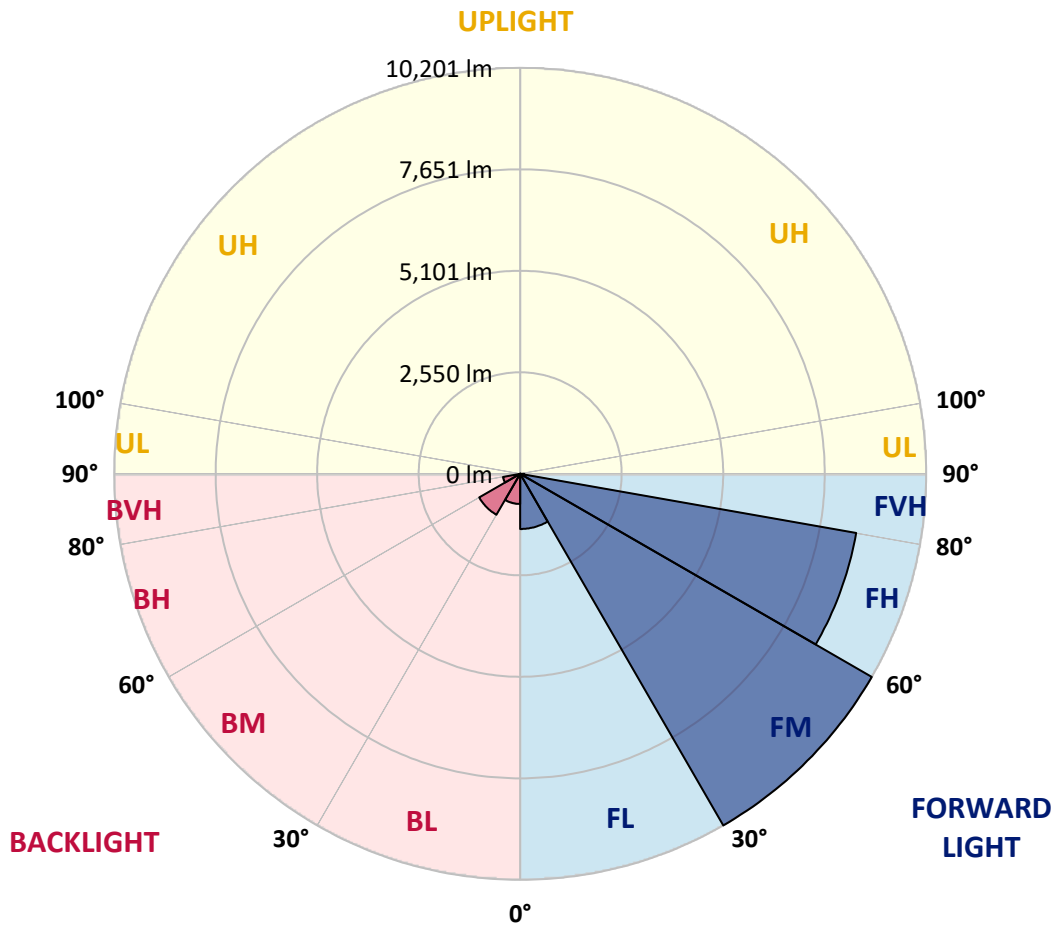
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.5	6.1			
FM (30°-60°)	10201.2	45.0			
FH (60°-80°)	8572.2	37.9			G4/12000
FVH (80°-90°)	99.7	0.4			G1/100
BL (0°-30°)	758.5	3.3	B2/1000		
BM (30°-60°)	1188.4	5.2	B2/2500		
BH (60°-80°)	437.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5
2.5°	3316.6	3346.6	3342.3	3362.3	3369.5	3398.1	3426.7	3465.3	3508.2	3506.8
5°	3129.2	3159.2	3166.4	3193.6	3227.9	3272.2	3330.9	3408.1	3488.2	3501.1
7.5°	2907.5	2939.0	2957.6	3011.9	3074.9	3166.4	3262.2	3375.2	3508.2	3526.8
10°	2685.9	2714.5	2738.8	2816.0	2916.1	3052.0	3207.9	3370.9	3549.7	3576.9
12.5°	2548.6	2575.7	2602.9	2670.1	2794.6	2960.5	3172.1	3390.9	3618.3	3656.9
15°	2499.9	2524.3	2545.7	2605.8	2721.6	2910.4	3165.0	3432.4	3705.6	3757.1
17.5°	2507.1	2520.0	2534.3	2580.0	2693.0	2887.5	3177.8	3503.9	3808.5	3854.3
20°	2548.6	2555.7	2557.1	2588.6	2688.7	2884.7	3203.6	3572.6	3905.8	3967.3
22.5°	2601.5	2604.3	2601.5	2622.9	2715.9	2906.1	3237.9	3655.5	4014.5	4071.7
25°	2848.9	2794.6	2725.9	2684.4	2761.7	2947.6	3289.4	3767.1	4133.2	4189.0
27.5°	3616.9	3461.0	3215.0	2939.0	2856.1	3007.7	3360.9	3880.1	4253.3	4303.4
30°	4864.0	4659.5	4241.9	3619.8	3159.2	3133.5	3453.9	3993.0	4380.6	4435.0
32.5°	6114.0	6063.9	5582.0	4721.0	3841.4	3413.8	3608.3	4146.1	4549.4	4592.3
35°	7378.3	7276.7	6882.0	6031.0	4892.6	3984.5	3865.8	4346.3	4771.1	4819.7
37.5°	8346.5	8285.0	8040.4	7339.6	6139.7	4865.4	4306.2	4656.6	5092.8	5147.2
40°	9201.7	9173.1	9090.2	8628.2	7534.1	6018.2	4991.3	5137.2	5539.1	5603.4
42.5°	9873.9	9941.1	9988.3	9859.6	8971.5	7333.9	5912.3	5812.2	6161.2	6227.0
45°	10561.8	10584.7	10774.9	10960.8	10398.8	8709.7	6950.6	6603.1	6934.9	7016.4
47.5°	11003.7	11095.3	11429.9	11757.4	11598.7	10074.1	8066.2	7537.0	7831.6	7984.6
50°	11036.6	11209.7	11670.2	12240.8	12472.5	11372.7	9279.0	8601.0	8914.3	9083.0
52.5°	10488.9	10757.7	11471.4	12306.6	12944.5	12472.5	10533.2	9665.1	10067.0	10287.2
55°	8041.9	8393.7	10723.4	11949.1	12963.1	13306.3	11754.6	10773.5	11351.3	11600.1
57.5°	7006.4	7183.8	8430.9	11328.4	12618.4	13642.4	12858.7	11828.9	12748.5	13057.5
60°	5829.4	6062.5	7070.8	10313.0	12150.7	13675.3	13834.0	13190.5	14263.1	14610.6
62.5°	3961.6	4214.7	5217.3	8568.2	11511.4	13659.6	14633.5	14592.0	15946.4	16319.7
65°	2454.2	2612.9	3273.7	6996.4	10617.6	13676.7	15470.2	16293.9	17722.7	18101.7
67.5°	1939.3	2012.3	2356.9	5371.7	9077.3	13290.6	16305.4	17894.3	19394.6	19694.9
70°	1302.9	1347.2	1714.8	3601.2	6753.3	11508.6	16289.7	18698.1	20255.5	20405.7
72.5°	686.5	720.8	1002.6	1667.6	4078.8	8180.6	13731.1	17737.0	19398.8	19172.9
75°	343.2	400.4	675.0	846.7	1741.9	4562.2	8526.7	13984.2	15268.5	14393.2
77.5°	260.3	314.6	557.8	557.8	606.4	1536.0	3611.2	7627.1	7035.0	5858.0
80°	165.9	214.5	487.7	421.9	253.1	390.4	941.1	2136.7	1494.5	1137.0
82.5°	97.3	140.2	406.2	278.9	141.6	144.4	266.0	454.8	387.6	301.8
85°	38.6	91.5	278.9	110.1	55.8	35.8	80.1	97.3	80.1	60.1
87.5°	0.0	21.5	48.6	0.0	4.3	2.9	5.7	7.2	7.2	5.7
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°
3532.5	0°	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5
3535.4	2.5°	3548.3	3551.1	3559.7	3561.1	3541.1	3515.4	3505.3	3501.1	3483.9	3482.5
3558.3	5°	3591.2	3604.0	3591.2	3554.0	3465.3	3340.9	3246.5	3169.3	3099.2	3077.7
3636.9	7.5°	3677.0	3689.8	3651.2	3505.3	3282.2	3034.8	2811.7	2654.4	2512.8	2459.9
3732.7	10°	3800.0	3817.1	3695.6	3400.9	3006.2	2608.6	2231.1	1965.1	1757.7	1673.3
3862.9	12.5°	3954.4	3961.6	3719.9	3242.2	2647.2	2079.5	1544.6	1260.0	1075.5	1006.8
4020.2	15°	4124.6	4114.6	3722.7	3026.2	2158.1	1470.2	1008.3	828.1	753.7	730.8
4177.5	17.5°	4303.4	4261.9	3665.5	2714.5	1621.8	1005.4	748.0	705.1	692.2	686.5
4333.4	20°	4479.3	4386.3	3561.1	2306.9	1164.2	750.8	679.3	666.5	659.3	656.4
4490.7	22.5°	4639.5	4480.7	3382.4	1833.5	845.2	663.6	642.1	630.7	617.8	612.1
4643.8	25°	4795.4	4535.1	3130.6	1391.6	676.5	620.7	603.5	582.1	564.9	557.8
4808.2	27.5°	4947.0	4569.4	2816.0	1029.7	603.5	580.6	549.2	519.2	506.3	503.4
4984.1	30°	5108.6	4580.8	2458.5	768.0	559.2	530.6	484.8	450.5	443.4	444.8
5221.6	32.5°	5305.9	4598.0	2098.1	629.3	522.0	470.5	416.2	380.4	374.7	380.4
5567.7	35°	5541.9	4632.3	1750.5	579.2	489.1	409.0	350.4	320.4	314.6	318.9
6011.0	37.5°	5862.3	4688.1	1425.9	569.2	461.9	357.5	294.6	270.3	270.3	271.7
6554.5	40°	6288.5	4836.8	1135.6	562.1	447.6	318.9	248.8	238.8	243.1	246.0
7246.7	42.5°	6807.6	5152.9	939.6	553.5	431.9	301.8	226.0	221.7	228.8	231.7
8076.2	45°	7389.7	5553.4	871.0	539.2	417.6	313.2	216.0	210.2	218.8	220.2
9005.8	47.5°	7991.8	5945.2	862.4	523.4	403.3	330.4	213.1	200.2	210.2	211.7
9998.3	50°	8601.0	6201.2	871.0	499.1	380.4	330.4	214.5	190.2	198.8	203.1
11028.1	52.5°	9214.6	6318.5	865.3	446.2	340.4	310.3	214.5	181.6	190.2	193.1
12140.7	55°	9809.5	6295.6	778.0	367.6	288.9	274.6	208.8	174.5	180.2	181.6
13191.9	57.5°	10280.1	5976.7	616.4	286.0	234.5	228.8	190.2	165.9	170.2	168.8
14155.8	60°	10526.1	5275.9	440.5	220.2	184.5	180.2	167.3	154.5	157.3	150.2
14972.5	62.5°	10528.9	4349.2	294.6	174.5	147.3	143.0	143.0	138.7	135.9	121.6
15604.6	65°	10304.4	3320.9	195.9	138.7	118.7	111.6	120.1	118.7	108.7	88.7
15797.7	67.5°	9795.2	2176.7	148.7	108.7	91.5	87.2	95.8	100.1	93.0	74.4
15094.0	70°	8748.4	1267.1	123.0	84.4	68.6	64.4	77.2	85.8	77.2	60.1
12901.6	72.5°	7266.7	683.6	100.1	62.9	47.2	42.9	61.5	70.1	61.5	44.3
8277.8	75°	4715.3	366.1	77.2	41.5	24.3	27.2	45.8	51.5	42.9	28.6
2429.9	77.5°	1583.2	161.6	48.6	20.0	11.4	11.4	27.2	31.5	20.0	10.0
441.9	80°	353.3	67.2	20.0	8.6	4.3	4.3	5.7	5.7	2.9	0.0
135.9	82.5°	115.8	27.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
34.3	85°	44.3	10.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.4	87.5°	17.2	1.4	0.0	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>
3532.5
3485.3
3064.9
2438.4
1637.5
985.4
730.8
685.1
653.6
610.7
554.9
500.6
444.8
379.0
317.5
270.3
246.0
231.7
221.7
213.1
204.5
193.1
181.6
168.8
148.7
117.3
85.8
72.9
57.2
42.9
25.7
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