

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: P948921

Luminaire Tested: **GALN-SB3D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948921
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-SB3D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA 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: 22103 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

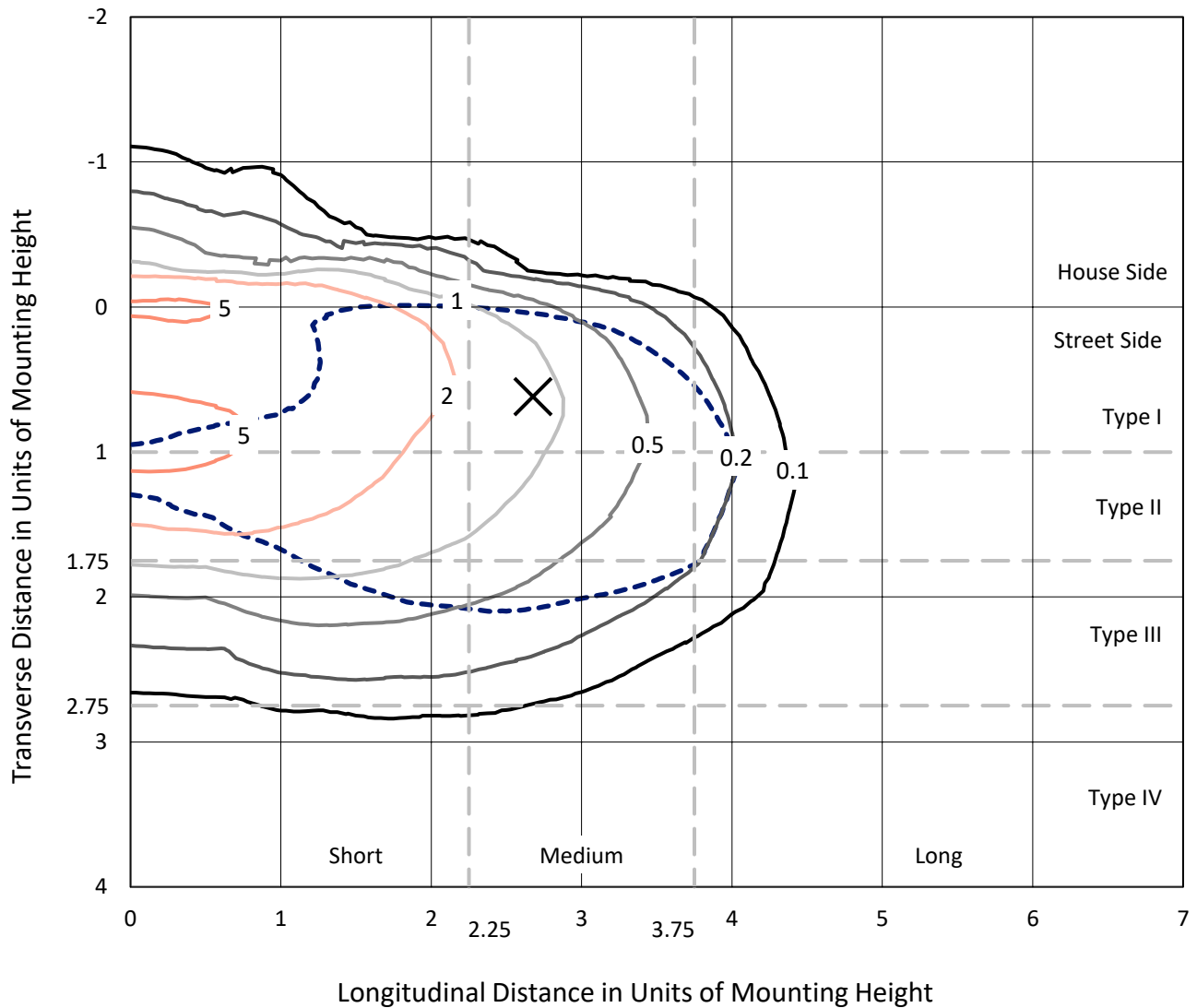
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

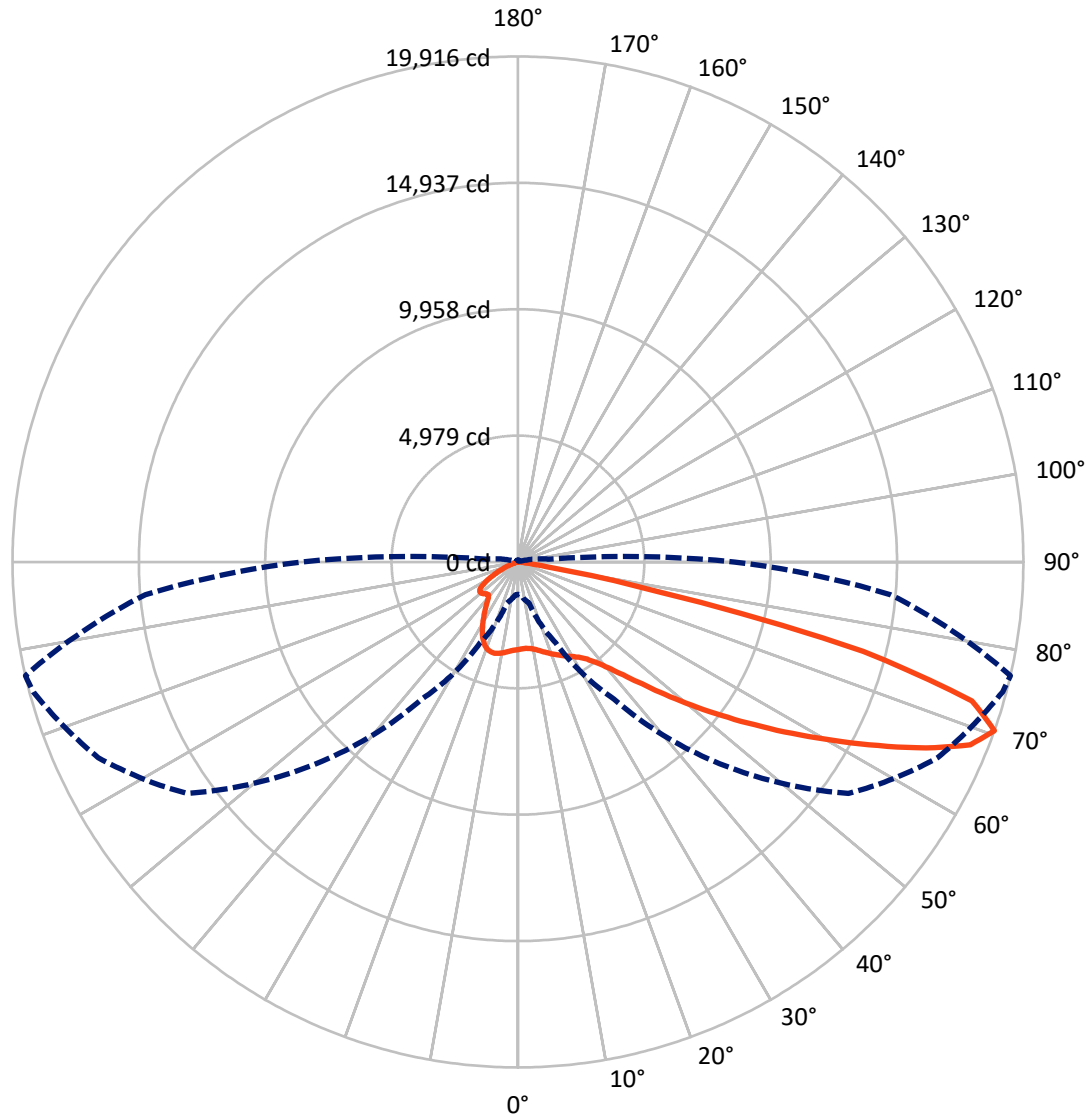
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2330.0	0.0	2330.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19773.0	0.0	19773.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	22103.0	0.0	22103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	1.3
10°-20°	705.4	3.2
20°-30°	1091.0	4.9
30°-40°	1979.7	9.0
40°-50°	3736.9	16.9
50°-60°	5399.5	24.4
60°-70°	5747.6	26.0
70°-80°	3045.8	13.8
80°-90°	100.0	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°	22103.0	100.0
0°-180°	22103.0	100.0

Coefficient of Utilization



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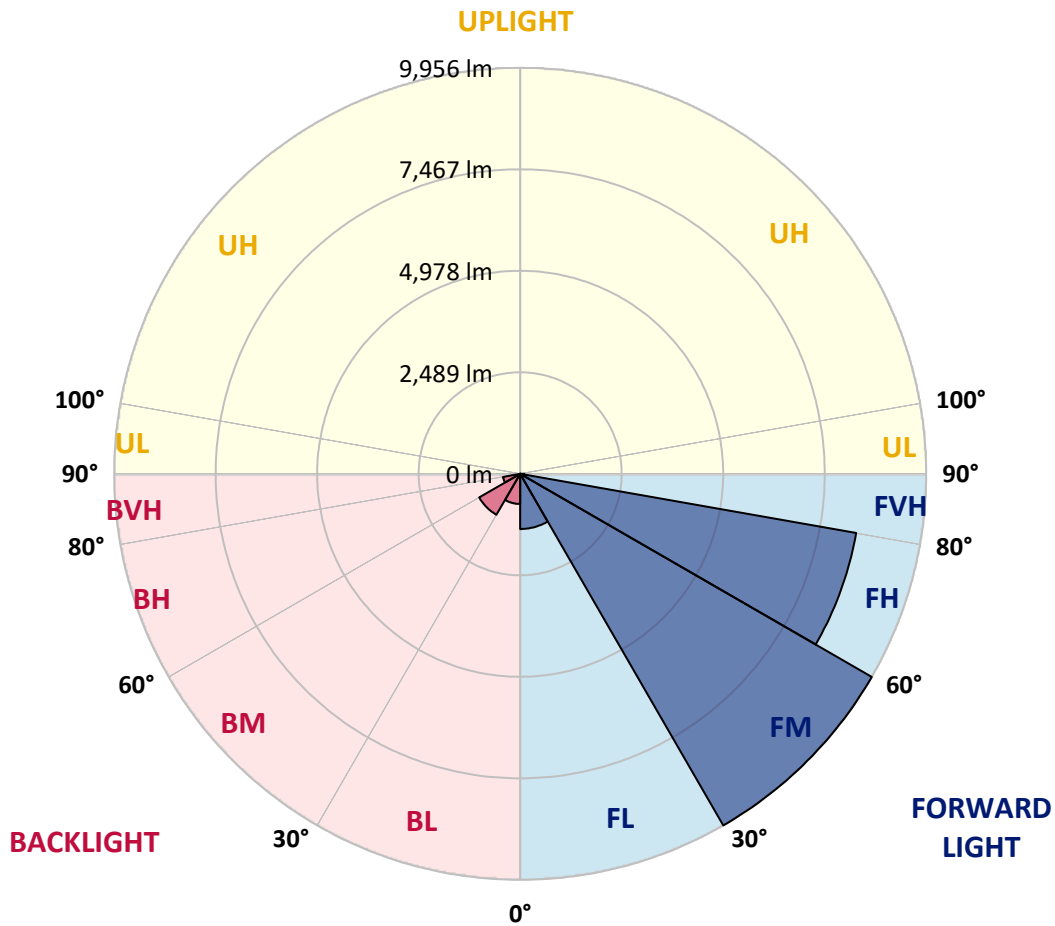
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.2	6.1			
FM (30°-60°)	9956.2	45.0			
FH (60°-80°)	8366.3	37.9			G4/12000
FVH (80°-90°)	97.3	0.4			G1/100
BL (0°-30°)	740.3	3.3	B2/1000		
BM (30°-60°)	1159.9	5.2	B2/2500		
BH (60°-80°)	427.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	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°	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7
2.5°	3236.9	3266.2	3262.0	3281.6	3288.5	3316.5	3344.4	3382.1	3423.9	3422.5
5°	3054.0	3083.4	3090.3	3116.9	3150.4	3193.6	3250.9	3326.2	3404.4	3417.0
7.5°	2837.7	2868.4	2886.6	2939.6	3001.0	3090.3	3183.9	3294.1	3423.9	3442.1
10°	2621.3	2649.3	2673.0	2748.4	2846.1	2978.7	3130.8	3289.9	3464.4	3490.9
12.5°	2487.3	2513.9	2540.4	2606.0	2727.4	2889.3	3095.9	3309.5	3531.4	3569.1
15°	2439.9	2463.6	2484.6	2543.2	2656.2	2840.5	3088.9	3350.0	3616.6	3666.8
17.5°	2446.9	2459.4	2473.4	2518.1	2628.3	2818.2	3101.5	3419.8	3717.1	3761.7
20°	2487.3	2494.3	2495.7	2526.4	2624.1	2815.4	3126.6	3486.8	3812.0	3872.0
22.5°	2539.0	2541.8	2539.0	2559.9	2650.7	2836.3	3160.1	3567.7	3918.1	3973.9
25°	2780.5	2727.4	2660.4	2619.9	2695.3	2876.8	3210.4	3676.6	4033.9	4088.3
27.5°	3530.0	3377.9	3137.8	2868.4	2787.4	2935.4	3280.2	3786.9	4151.2	4200.0
30°	4747.2	4547.6	4140.0	3532.8	3083.4	3058.2	3370.9	3897.1	4275.4	4328.4
32.5°	5967.1	5918.3	5447.9	4607.6	3749.2	3331.8	3521.6	4046.5	4440.1	4482.0
35°	7201.0	7101.9	6716.7	5886.2	4775.1	3888.7	3772.9	4241.9	4656.4	4703.9
37.5°	8146.0	8086.0	7847.3	7163.3	5992.2	4748.6	4202.8	4544.8	4970.5	5023.5
40°	8980.7	8952.8	8871.8	8421.0	7353.2	5873.6	4871.4	5013.8	5406.0	5468.8
42.5°	9636.7	9702.3	9748.4	9622.8	8756.0	7157.8	5770.3	5672.6	6013.2	6077.4
45°	10308.1	10330.4	10516.1	10697.5	10149.0	8500.5	6783.7	6444.5	6768.3	6847.9
47.5°	10739.4	10828.8	11155.4	11475.0	11320.1	9832.1	7872.4	7356.0	7643.5	7792.8
50°	10771.5	10940.4	11389.9	11946.8	12172.9	11099.5	9056.1	8394.4	8700.1	8864.8
52.5°	10236.9	10499.3	11195.9	12011.0	12633.5	12172.9	10280.2	9432.9	9825.2	10040.1
55°	7848.7	8192.1	10465.8	11662.1	12651.7	12986.7	11472.2	10514.7	11078.6	11321.5
57.5°	6838.1	7011.2	8228.3	11056.3	12315.3	13314.7	12549.8	11544.8	12442.3	12743.8
60°	5689.4	5916.9	6900.9	10065.2	11858.9	13346.8	13501.7	12873.6	13920.5	14259.7
62.5°	3866.4	4113.5	5091.9	8362.3	11234.9	13331.5	14282.0	14241.5	15563.4	15927.7
65°	2395.2	2550.2	3195.0	6828.3	10362.5	13348.2	15098.6	15902.5	17297.0	17666.9
67.5°	1892.7	1963.9	2300.3	5242.7	8859.3	12971.3	15913.7	17464.5	18928.7	19221.8
70°	1271.6	1314.9	1673.6	3514.7	6591.0	11232.1	15898.4	18248.9	19769.0	19915.5
72.5°	670.0	703.5	978.5	1627.5	3980.9	7984.1	13401.2	17310.9	18932.9	18712.3
75°	335.0	390.8	658.8	826.3	1700.1	4452.7	8321.9	13648.3	14901.7	14047.5
77.5°	254.0	307.1	544.4	544.4	591.8	1499.1	3524.4	7443.9	6866.0	5717.3
80°	161.9	209.4	476.0	411.8	247.1	381.1	918.4	2085.4	1458.6	1109.7
82.5°	94.9	136.8	396.4	272.2	138.2	141.0	259.6	443.9	378.3	294.5
85°	37.7	89.3	272.2	107.5	54.4	34.9	78.2	94.9	78.2	58.6
87.5°	0.0	20.9	47.5	0.0	4.2	2.8	5.6	7.0	7.0	5.6
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°
3447.7	0°	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7	3447.7
3450.5	2.5°	3463.0	3465.8	3474.2	3475.6	3456.0	3430.9	3421.1	3417.0	3400.2	3398.8
3472.8	5°	3504.9	3517.5	3504.9	3468.6	3382.1	3260.6	3168.5	3093.1	3024.7	3003.8
3549.6	7.5°	3588.6	3601.2	3563.5	3421.1	3203.4	2961.9	2744.2	2590.6	2452.5	2400.8
3643.1	10°	3708.7	3725.4	3606.8	3319.3	2934.0	2546.0	2177.5	1917.9	1715.5	1633.1
3770.1	12.5°	3859.4	3866.4	3630.5	3164.3	2583.7	2029.5	1507.5	1229.7	1049.7	982.7
3923.6	15°	4025.5	4015.8	3633.3	2953.5	2106.3	1434.9	984.1	808.2	735.6	713.3
4077.2	17.5°	4200.0	4159.5	3577.5	2649.3	1582.9	981.3	730.0	688.1	675.6	670.0
4229.3	20°	4371.7	4281.0	3475.6	2251.5	1136.2	732.8	663.0	650.5	643.5	640.7
4382.9	22.5°	4528.0	4373.1	3301.1	1789.4	824.9	647.7	626.7	615.6	603.0	597.4
4532.2	25°	4680.2	4426.1	3055.4	1358.1	660.2	605.8	589.0	568.1	551.3	544.4
4692.7	27.5°	4828.1	4459.6	2748.4	1005.0	589.0	566.7	536.0	506.7	494.1	491.3
4864.4	30°	4985.9	4470.8	2399.4	749.6	545.8	517.8	473.2	439.7	432.7	434.1
5096.1	32.5°	5178.5	4487.6	2047.7	614.2	509.5	459.2	406.2	371.3	365.7	371.3
5433.9	35°	5408.8	4521.1	1708.5	565.3	477.4	399.2	342.0	312.7	307.1	311.3
5866.6	37.5°	5721.5	4575.5	1391.6	555.5	450.8	349.0	287.5	263.8	263.8	265.2
6397.0	40°	6137.4	4720.7	1108.3	548.6	436.9	311.3	242.9	233.1	237.3	240.1
7072.6	42.5°	6644.1	5029.1	917.1	540.2	421.5	294.5	220.5	216.4	223.3	226.1
7882.2	45°	7212.2	5420.0	850.1	526.2	407.6	305.7	210.8	205.2	213.6	215.0
8789.5	47.5°	7799.8	5802.4	841.7	510.9	393.6	322.4	208.0	195.4	205.2	206.6
9758.2	50°	8394.4	6052.3	850.1	487.1	371.3	322.4	209.4	185.6	194.0	198.2
10763.1	52.5°	8993.3	6166.7	844.5	435.5	332.2	302.9	209.4	177.3	185.6	188.4
11849.1	55°	9573.9	6144.4	759.3	358.7	282.0	268.0	203.8	170.3	175.9	177.3
12875.0	57.5°	10033.1	5833.1	601.6	279.2	228.9	223.3	185.6	161.9	166.1	164.7
13815.8	60°	10273.2	5149.2	429.9	215.0	180.1	175.9	163.3	150.7	153.5	146.6
14612.8	62.5°	10276.0	4244.7	287.5	170.3	143.8	139.6	139.6	135.4	132.6	118.6
15229.8	65°	10056.9	3241.1	191.2	135.4	115.9	108.9	117.2	115.9	106.1	86.5
15418.2	67.5°	9560.0	2124.4	145.2	106.1	89.3	85.1	93.5	97.7	90.7	72.6
14731.5	70°	8538.2	1236.7	120.0	82.4	67.0	62.8	75.4	83.7	75.4	58.6
12591.7	72.5°	7092.1	667.2	97.7	61.4	46.1	41.9	60.0	68.4	60.0	43.3
8079.0	75°	4602.0	357.3	75.4	40.5	23.7	26.5	44.7	50.2	41.9	27.9
2371.5	77.5°	1545.2	157.7	47.5	19.5	11.2	11.2	26.5	30.7	19.5	9.8
431.3	80°	344.8	65.6	19.5	8.4	4.2	4.2	5.6	5.6	2.8	0.0
132.6	82.5°	113.1	26.5	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
33.5	85°	43.3	9.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.2	87.5°	16.7	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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180°
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3447.7
3401.6
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