

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: P948942

Luminaire Tested: **GALN-SB3D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948942
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 22840 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

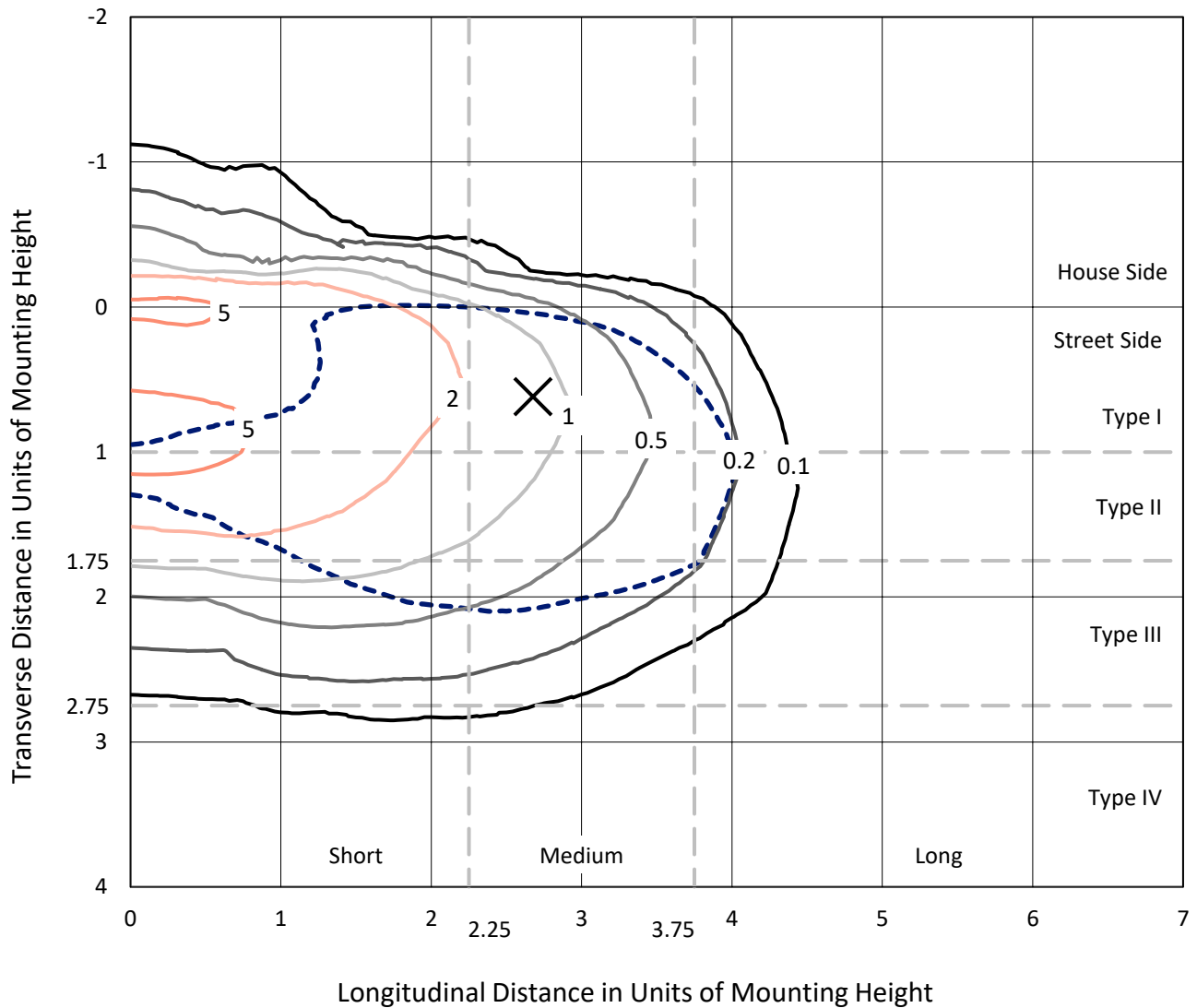
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

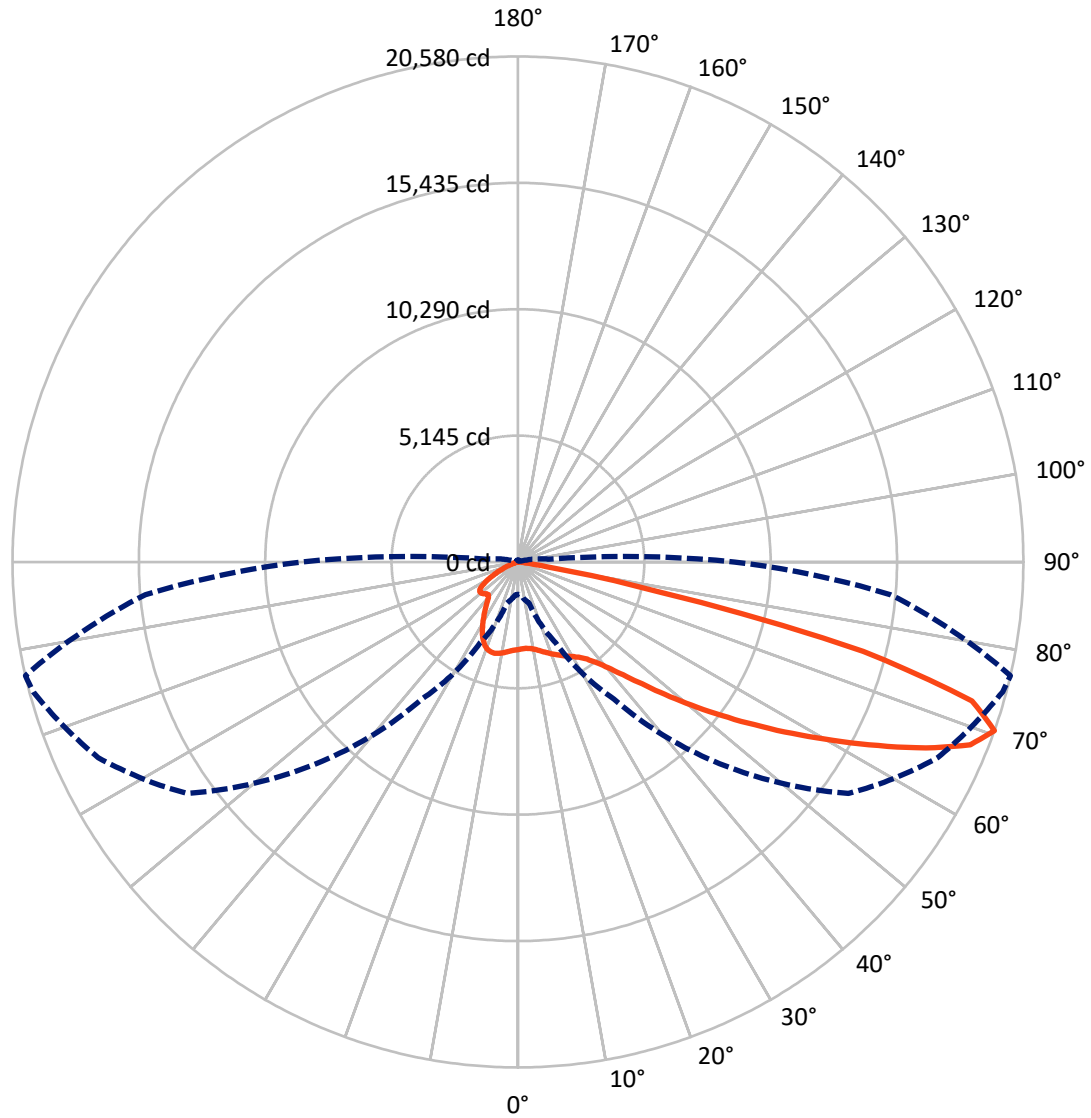
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	2407.7	0.0	2407.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20432.3	0.0	20432.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	22840.0	0.0	22840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	1.3
10°-20°	728.9	3.2
20°-30°	1127.4	4.9
30°-40°	2045.7	9.0
40°-50°	3861.5	16.9
50°-60°	5579.5	24.4
60°-70°	5939.3	26.0
70°-80°	3147.4	13.8
80°-90°	103.4	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°	22840.0	100.0
0°-180°	22840.0	100.0

Coefficient of Utilization



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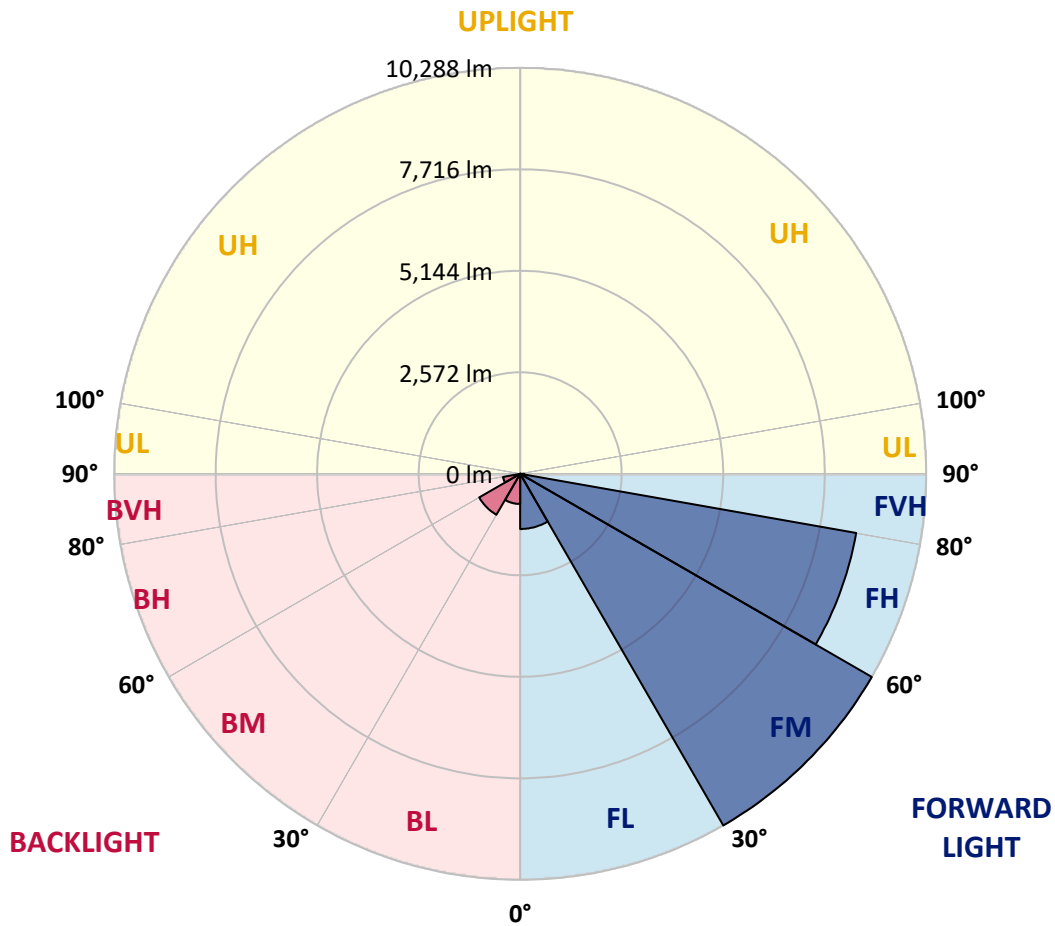
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.3	6.1			
FM (30°-60°)	10288.2	45.0			
FH (60°-80°)	8645.3	37.9			G4/12000
FVH (80°-90°)	100.6	0.4			G2/225
BL (0°-30°)	765.0	3.3	B2/1000		
BM (30°-60°)	1198.5	5.2	B2/2500		
BH (60°-80°)	441.4	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°	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6
2.5°	3344.8	3375.1	3370.8	3391.0	3398.2	3427.0	3455.9	3494.8	3538.1	3536.7
5°	3155.9	3186.2	3193.4	3220.8	3255.4	3300.1	3359.3	3437.1	3517.9	3530.9
7.5°	2932.3	2964.0	2982.8	3037.6	3101.1	3193.4	3290.0	3404.0	3538.1	3556.9
10°	2708.8	2737.6	2762.1	2840.0	2941.0	3078.0	3235.2	3399.6	3579.9	3607.3
12.5°	2570.3	2597.7	2625.1	2692.9	2818.4	2985.7	3199.2	3419.8	3649.2	3688.1
15°	2521.2	2545.8	2567.4	2628.0	2744.8	2935.2	3191.9	3461.7	3737.2	3789.1
17.5°	2528.5	2541.4	2555.9	2602.0	2716.0	2912.1	3204.9	3533.8	3841.0	3887.2
20°	2570.3	2577.5	2578.9	2610.7	2711.6	2909.2	3230.9	3603.0	3939.1	4001.1
22.5°	2623.7	2626.5	2623.7	2645.3	2739.0	2930.9	3265.5	3686.7	4048.7	4106.4
25°	2873.2	2818.4	2749.1	2707.3	2785.2	2972.7	3317.4	3799.2	4168.4	4224.7
27.5°	3647.7	3490.5	3242.4	2964.0	2880.4	3033.3	3389.5	3913.1	4289.6	4340.1
30°	4905.5	4699.2	4278.0	3650.6	3186.2	3160.2	3483.3	4027.1	4417.9	4472.8
32.5°	6166.1	6115.6	5629.5	4761.2	3874.2	3442.9	3639.1	4181.4	4588.1	4631.4
35°	7441.1	7338.7	6940.6	6082.4	4934.3	4018.4	3898.7	4383.3	4811.7	4860.8
37.5°	8417.6	8355.6	8108.9	7402.2	6192.0	4906.9	4342.9	4696.3	5136.2	5191.1
40°	9280.1	9251.3	9167.6	8701.8	7598.3	6069.4	5033.8	5181.0	5586.3	5651.2
42.5°	9958.0	10025.8	10073.4	9943.6	9047.9	7396.4	5962.7	5861.7	6213.7	6280.0
45°	10651.8	10674.9	10866.7	11054.2	10487.4	8784.0	7009.9	6659.4	6994.0	7076.2
47.5°	11097.5	11189.8	11527.3	11857.6	11697.5	10160.0	8134.9	7601.2	7898.4	8052.7
50°	11130.7	11305.2	11769.7	12345.2	12578.8	11469.6	9358.0	8674.3	8990.2	9160.4
52.5°	10578.3	10849.4	11569.2	12411.5	13054.8	12578.8	10623.0	9747.5	10152.8	10374.9
55°	8110.4	8465.2	10814.8	12050.9	13073.5	13419.7	11854.8	10865.3	11448.0	11699.0
57.5°	7066.1	7245.0	8502.7	11424.9	12725.9	13758.7	12968.3	11929.8	12857.2	13168.7
60°	5879.1	6114.2	7131.0	10400.9	12254.3	13791.8	13951.9	13302.9	14384.6	14735.1
62.5°	3995.3	4250.6	5261.7	8641.2	11609.6	13776.0	14758.2	14716.4	16082.3	16458.8
65°	2475.1	2635.2	3301.6	7056.0	10708.1	13793.3	15602.0	16432.8	17873.7	18255.9
67.5°	1955.8	2029.4	2377.0	5417.5	9154.7	13403.8	16444.3	18046.8	19559.8	19862.7
70°	1314.0	1358.7	1729.4	3631.9	6810.8	11606.7	16428.5	18857.4	20428.1	20579.6
72.5°	692.3	726.9	1011.1	1681.8	4113.6	8250.3	13848.1	17888.1	19564.2	19336.3
75°	346.2	403.9	680.8	853.9	1756.8	4601.1	8599.3	14103.4	15398.6	14515.9
77.5°	262.5	317.3	562.5	562.5	611.6	1549.1	3642.0	7692.1	7095.0	5907.9
80°	167.3	216.4	491.8	425.5	255.3	393.8	949.1	2154.9	1507.3	1146.7
82.5°	98.1	141.4	409.6	281.3	142.8	145.7	268.3	458.7	390.9	304.3
85°	38.9	92.3	281.3	111.1	56.3	36.1	80.8	98.1	80.8	60.6
87.5°	0.0	21.6	49.0	0.0	4.3	2.9	5.8	7.2	7.2	5.8
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°
3562.6	0°	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6
3565.5	2.5°	3578.5	3581.4	3590.0	3591.5	3571.3	3545.3	3535.2	3530.9	3513.6	3512.1
3588.6	5°	3621.8	3634.7	3621.8	3584.3	3494.8	3369.4	3274.2	3196.3	3125.6	3104.0
3667.9	7.5°	3708.3	3721.3	3682.3	3535.2	3310.2	3060.7	2835.7	2677.0	2534.2	2480.9
3764.6	10°	3832.3	3849.7	3727.1	3429.9	3031.8	2630.9	2250.1	1981.8	1772.7	1687.6
3895.8	12.5°	3988.1	3995.3	3751.6	3269.8	2669.8	2097.2	1557.7	1270.7	1084.7	1015.4
4054.5	15°	4159.8	4149.7	3754.5	3052.0	2176.5	1482.7	1016.9	835.1	760.1	737.0
4213.1	17.5°	4340.1	4298.2	3696.8	2737.6	1635.6	1014.0	754.4	711.1	698.1	692.3
4370.3	20°	4517.5	4423.7	3591.5	2326.5	1174.1	757.2	685.1	672.1	664.9	662.0
4529.0	22.5°	4679.0	4518.9	3411.2	1849.1	852.4	669.3	647.6	636.1	623.1	617.3
4683.3	25°	4836.2	4573.7	3157.3	1403.4	682.2	626.0	608.7	587.0	569.7	562.5
4849.2	27.5°	4989.1	4608.3	2840.0	1038.5	608.7	585.6	553.9	523.6	510.6	507.7
5026.6	30°	5152.1	4619.9	2479.4	774.5	564.0	535.1	489.0	454.3	447.1	448.6
5266.1	32.5°	5351.2	4637.2	2115.9	634.6	526.5	474.5	419.7	383.7	377.9	383.7
5615.1	35°	5589.1	4671.8	1765.4	584.2	493.3	412.5	353.4	323.1	317.3	321.6
6062.2	37.5°	5912.2	4728.1	1438.0	574.1	465.9	360.6	297.1	272.6	272.6	274.0
6610.3	40°	6342.1	4878.1	1145.2	566.8	451.5	321.6	251.0	240.9	245.2	248.1
7308.4	42.5°	6865.6	5196.8	947.6	558.2	435.6	304.3	227.9	223.6	230.8	233.7
8145.0	45°	7452.7	5600.7	878.4	543.8	421.2	315.9	217.8	212.0	220.7	222.1
9082.5	47.5°	8059.9	5995.9	869.7	527.9	406.7	333.2	214.9	201.9	212.0	213.5
10083.5	50°	8674.3	6254.1	878.4	503.4	383.7	333.2	216.4	191.8	200.5	204.8
11122.0	52.5°	9293.1	6372.3	872.6	450.0	343.3	313.0	216.4	183.2	191.8	194.7
12244.2	55°	9893.1	6349.3	784.6	370.7	291.4	276.9	210.6	176.0	181.7	183.2
13304.3	57.5°	10367.7	6027.6	621.7	288.5	236.5	230.8	191.8	167.3	171.6	170.2
14276.5	60°	10615.8	5320.9	444.2	222.1	186.1	181.7	168.8	155.8	158.7	151.4
15100.1	62.5°	10618.6	4386.2	297.1	176.0	148.6	144.2	144.2	139.9	137.0	122.6
15737.6	65°	10392.2	3349.2	197.6	139.9	119.7	112.5	121.2	119.7	109.6	89.4
15932.3	67.5°	9878.7	2195.3	150.0	109.6	92.3	88.0	96.6	101.0	93.8	75.0
15222.7	70°	8822.9	1277.9	124.0	85.1	69.2	64.9	77.9	86.5	77.9	60.6
13011.5	72.5°	7328.6	689.4	101.0	63.5	47.6	43.3	62.0	70.7	62.0	44.7
8348.4	75°	4755.5	369.2	77.9	41.8	24.5	27.4	46.2	51.9	43.3	28.8
2450.6	77.5°	1596.7	163.0	49.0	20.2	11.5	11.5	27.4	31.7	20.2	10.1
445.7	80°	356.3	67.8	20.2	8.7	4.3	4.3	5.8	5.8	2.9	0.0
137.0	82.5°	116.8	27.4	8.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
34.6	85°	44.7	10.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.5	87.5°	17.3	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>
3562.6
3515.0
3091.0
2459.2
1651.5
993.8
737.0
690.9
659.2
615.9
559.6
504.8
448.6
382.2
320.2
272.6
248.1
233.7
223.6
214.9
206.3
194.7
183.2
170.2
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73.6
57.7
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