

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: P949110

Luminaire Tested: **GALN-SB3D-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949110
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-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 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: 17683 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

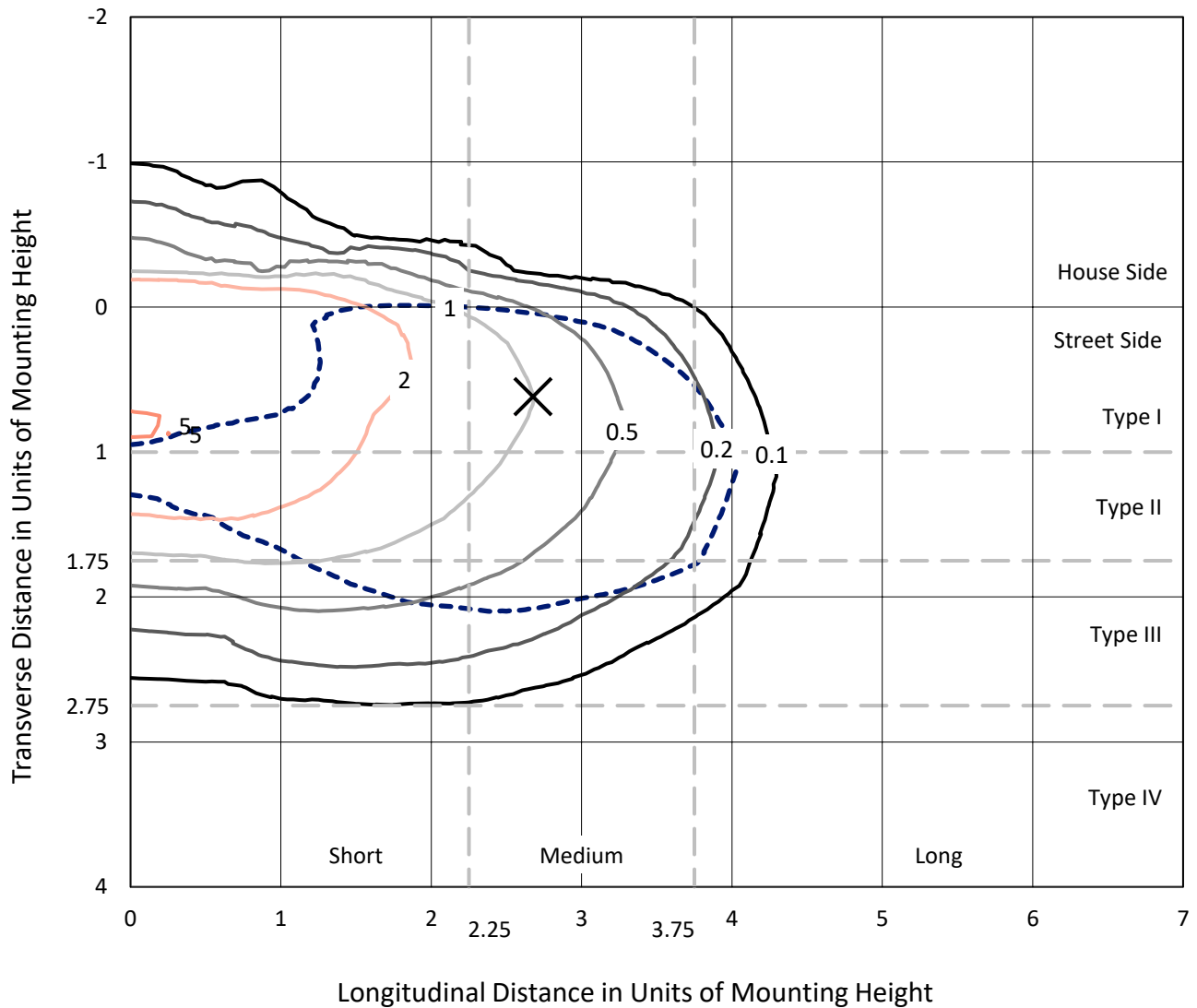
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

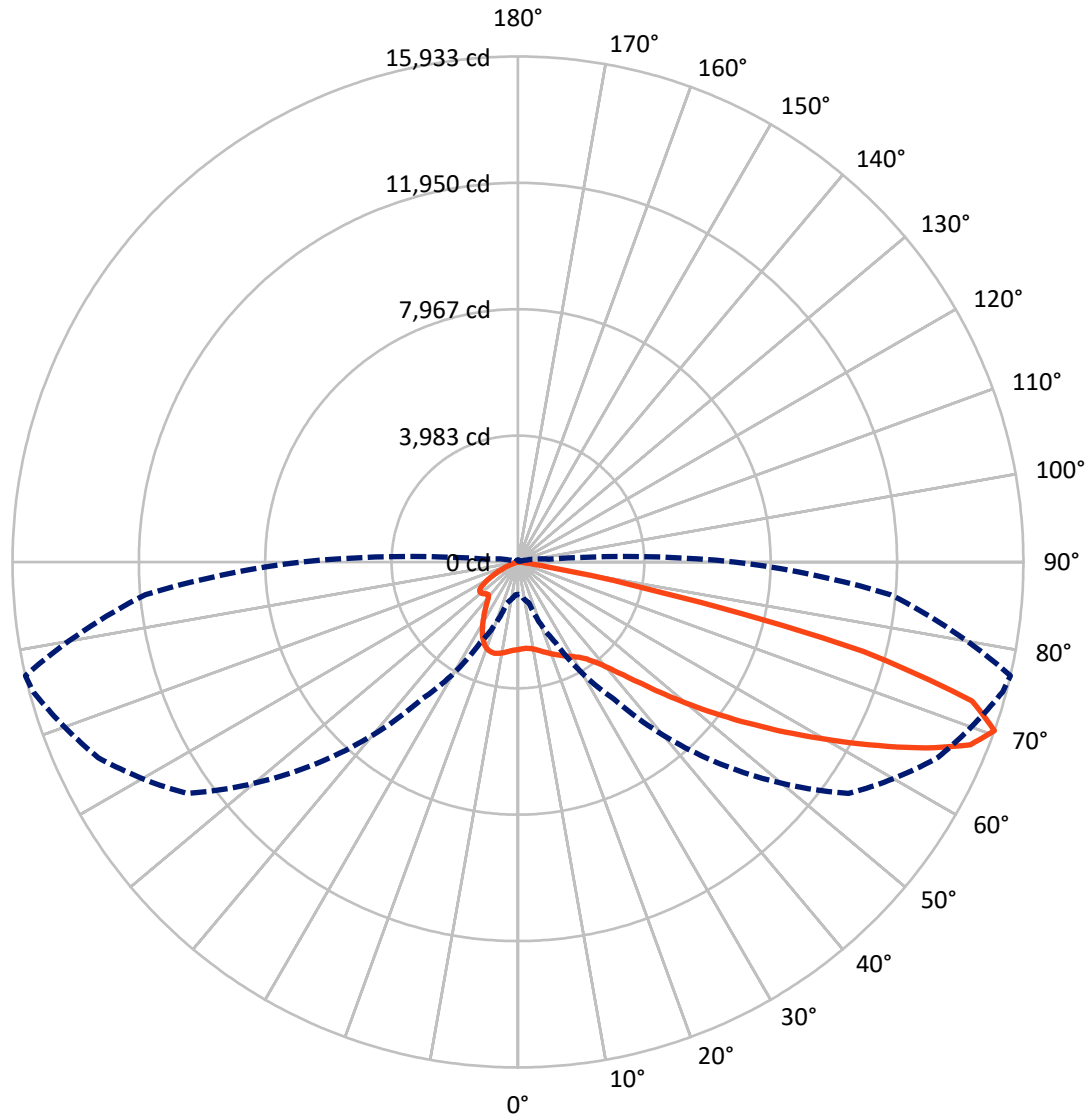
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1864.0	0.0	1864.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15819.0	0.0	15819.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	17683.0	0.0	17683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	1.3
10°-20°	564.3	3.2
20°-30°	872.8	4.9
30°-40°	1583.8	9.0
40°-50°	2989.6	16.9
50°-60°	4319.7	24.4
60°-70°	4598.2	26.0
70°-80°	2436.7	13.8
80°-90°	80.0	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°	17683.0	100.0
0°-180°	17683.0	100.0

Coefficient of Utilization



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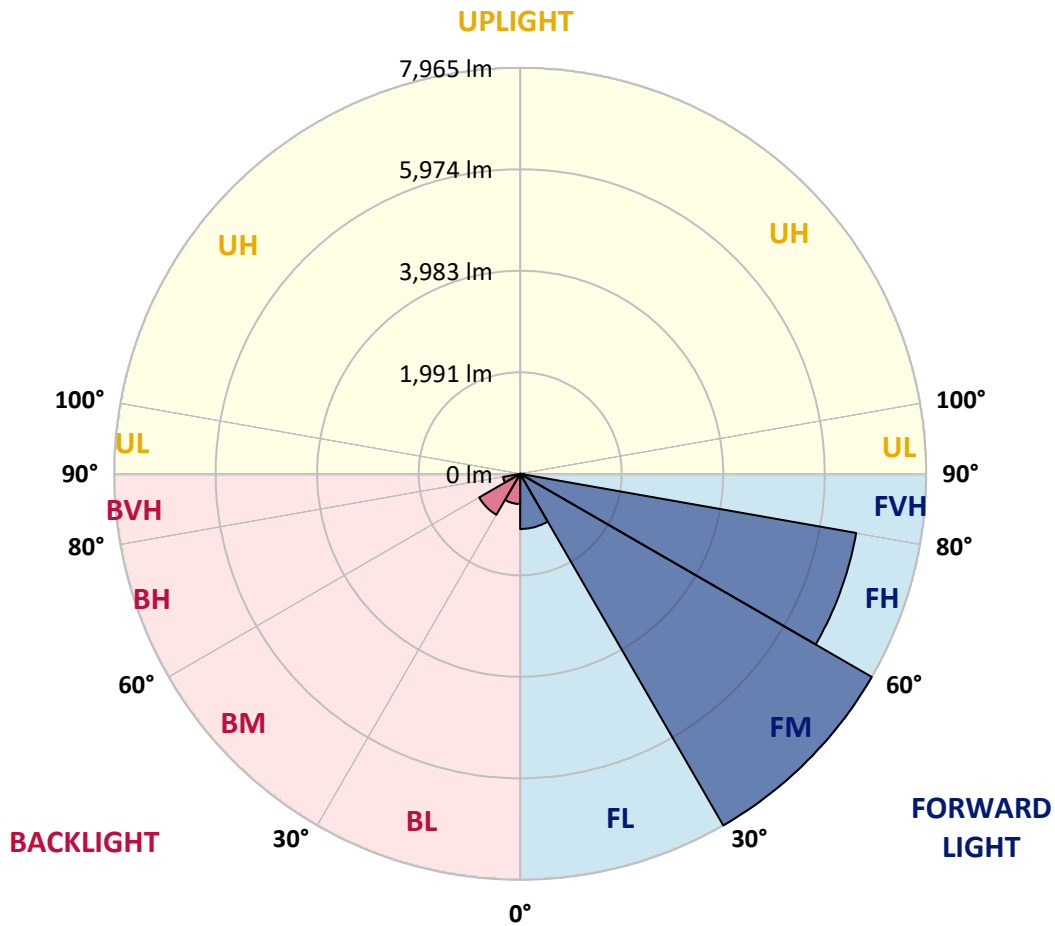
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.6	6.1			
FM (30°-60°)	7965.2	45.0			
FH (60°-80°)	6693.3	37.9			G3/7500
FVH (80°-90°)	77.9	0.4			G1/100
BL (0°-30°)	592.2	3.3	B2/1000		
BM (30°-60°)	927.9	5.2	B1/1000		
BH (60°-80°)	341.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2
2.5°	2589.6	2613.1	2609.7	2625.3	2630.9	2653.3	2675.6	2705.7	2739.2	2738.1
5°	2443.3	2466.8	2472.4	2493.6	2520.4	2555.0	2600.8	2661.1	2723.6	2733.7
7.5°	2270.2	2294.8	2309.3	2351.8	2400.9	2472.4	2547.2	2635.4	2739.2	2753.8
10°	2097.1	2119.5	2138.5	2198.8	2276.9	2383.0	2504.7	2632.0	2771.6	2792.8
12.5°	1989.9	2011.2	2032.4	2084.9	2182.0	2311.6	2476.8	2647.7	2825.2	2855.4
15°	1952.0	1971.0	1987.7	2034.6	2125.1	2272.5	2471.2	2680.1	2893.3	2933.5
17.5°	1957.6	1967.6	1978.8	2014.5	2102.7	2254.6	2481.3	2735.9	2973.8	3009.5
20°	1989.9	1995.5	1996.6	2021.2	2099.4	2252.4	2501.4	2789.5	3049.7	3097.7
22.5°	2031.3	2033.5	2031.3	2048.0	2120.6	2269.1	2528.2	2854.3	3134.6	3179.2
25°	2224.4	2182.0	2128.4	2096.0	2156.3	2301.5	2568.4	2941.4	3227.2	3270.8
27.5°	2824.1	2702.4	2510.3	2294.8	2230.0	2348.4	2624.2	3029.6	3321.0	3360.1
30°	3797.9	3638.2	3312.1	2826.3	2466.8	2446.7	2696.8	3117.8	3420.4	3462.9
32.5°	4773.9	4734.8	4358.4	3686.2	2999.4	2665.5	2817.4	3237.3	3552.2	3585.7
35°	5761.0	5681.7	5373.5	4709.1	3820.2	3111.1	3018.4	3393.6	3725.3	3763.3
37.5°	6517.0	6469.0	6278.0	5730.9	4794.0	3799.0	3362.4	3635.9	3976.5	4019.0
40°	7184.8	7162.5	7097.7	6737.0	5882.7	4699.0	3897.3	4011.2	4324.9	4375.2
42.5°	7709.6	7762.1	7799.0	7698.5	7005.0	5726.4	4616.4	4538.2	4810.7	4862.1
45°	8246.8	8264.6	8413.2	8558.3	8119.5	6800.7	5427.1	5155.8	5414.8	5478.5
47.5°	8591.8	8663.3	8924.6	9180.3	9056.4	7866.0	6298.1	5885.0	6115.0	6234.5
50°	8617.5	8752.6	9112.2	9557.8	9738.7	8879.9	7245.1	6715.8	6960.3	7092.1
52.5°	8189.8	8399.8	8957.0	9609.1	10107.2	9738.7	8224.4	7546.6	7860.4	8032.4
55°	6279.2	6553.9	8373.0	9330.0	10121.7	10389.7	9178.1	8412.0	8863.2	9057.5
57.5°	5470.7	5609.1	6582.9	8845.3	9852.6	10652.1	10040.2	9236.2	9954.2	10195.4
60°	4551.6	4733.7	5520.9	8052.5	9487.4	10677.8	10801.8	10299.2	11136.8	11408.1
62.5°	3093.2	3290.9	4073.7	6690.1	8988.3	10665.5	11426.0	11393.6	12451.1	12742.6
65°	1916.2	2040.2	2556.1	5462.9	8290.3	10678.9	12079.3	12722.5	13838.0	14134.0
67.5°	1514.2	1571.2	1840.3	4194.3	7087.6	10377.4	12731.4	13972.0	15143.5	15378.0
70°	1017.3	1051.9	1338.9	2811.8	5273.0	8986.0	12719.1	14599.6	15815.7	15933.0
72.5°	536.0	562.8	782.8	1302.1	3184.8	6387.5	10721.4	13849.2	15146.8	14970.4
75°	268.0	312.7	527.1	661.1	1360.1	3562.2	6657.7	10919.0	11921.8	11238.4
77.5°	203.2	245.7	435.5	435.5	473.5	1199.3	2819.6	5955.3	5493.0	4574.0
80°	129.5	167.5	380.8	329.4	197.7	304.9	734.8	1668.3	1166.9	887.8
82.5°	75.9	109.4	317.1	217.8	110.6	112.8	207.7	355.1	302.6	235.6
85°	30.2	71.5	217.8	86.0	43.6	27.9	62.5	75.9	62.5	46.9
87.5°	0.0	16.8	38.0	0.0	3.4	2.2	4.5	5.6	5.6	4.5
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°
2758.2	0°	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2
2760.5	2.5°	2770.5	2772.7	2779.4	2780.6	2764.9	2744.8	2737.0	2733.7	2720.3	2719.1
2778.3	5°	2804.0	2814.1	2804.0	2775.0	2705.7	2608.6	2534.9	2474.6	2419.9	2403.1
2839.7	7.5°	2871.0	2881.1	2850.9	2737.0	2562.8	2369.6	2195.4	2072.6	1962.0	1920.7
2914.6	10°	2967.0	2980.5	2885.5	2655.5	2347.3	2036.8	1742.0	1534.3	1372.4	1306.5
3016.2	12.5°	3087.7	3093.2	2904.5	2531.5	2067.0	1623.7	1206.0	983.8	839.8	786.2
3139.0	15°	3220.5	3212.7	2906.7	2362.9	1685.1	1148.0	787.3	646.6	588.5	570.6
3261.9	17.5°	3360.1	3327.7	2862.1	2119.5	1266.3	785.0	584.0	550.5	540.5	536.0
3383.6	20°	3497.5	3424.9	2780.6	1801.2	909.0	586.3	530.4	520.4	514.8	512.6
3506.4	22.5°	3622.5	3498.6	2641.0	1431.6	660.0	518.1	501.4	492.5	482.4	477.9
3625.9	25°	3744.3	3541.0	2444.4	1086.5	528.2	484.6	471.2	454.5	441.1	435.5
3754.3	27.5°	3862.6	3567.8	2198.8	804.0	471.2	453.4	428.8	405.4	395.3	393.1
3891.7	30°	3988.8	3576.8	1919.6	599.7	436.6	414.3	378.6	351.8	346.2	347.3
4077.0	32.5°	4142.9	3590.2	1638.2	491.3	407.6	367.4	325.0	297.0	292.6	297.0
4347.3	35°	4327.2	3617.0	1366.8	452.3	381.9	319.4	273.6	250.1	245.7	249.0
4693.5	37.5°	4577.3	3660.5	1113.3	444.4	360.7	279.2	230.0	211.1	211.1	212.2
5117.8	40°	4910.1	3776.7	886.7	438.9	349.5	249.0	194.3	186.5	189.8	192.1
5658.3	42.5°	5315.5	4023.4	733.7	432.2	337.2	235.6	176.4	173.1	178.7	180.9
6306.0	45°	5769.9	4336.1	680.1	421.0	326.1	244.6	168.6	164.2	170.9	172.0
7031.8	47.5°	6240.1	4642.1	673.4	408.7	314.9	258.0	166.4	156.3	164.2	165.3
7806.8	50°	6715.8	4842.0	680.1	389.7	297.0	258.0	167.5	148.5	155.2	158.6
8610.8	52.5°	7194.8	4933.5	675.6	348.4	265.8	242.3	167.5	141.8	148.5	150.8
9479.6	55°	7659.4	4915.7	607.5	287.0	225.6	214.4	163.0	136.2	140.7	141.8
10300.4	57.5°	8026.8	4666.7	481.3	223.3	183.1	178.7	148.5	129.5	132.9	131.8
11053.0	60°	8218.9	4119.5	343.9	172.0	144.1	140.7	130.7	120.6	122.8	117.3
11690.6	62.5°	8221.1	3395.9	230.0	136.2	115.0	111.7	111.7	108.3	106.1	94.9
12184.2	65°	8045.8	2593.0	153.0	108.3	92.7	87.1	93.8	92.7	84.9	69.2
12335.0	67.5°	7648.2	1699.6	116.1	84.9	71.5	68.1	74.8	78.2	72.6	58.1
11785.6	70°	6830.8	989.4	96.0	65.9	53.6	50.3	60.3	67.0	60.3	46.9
10073.7	72.5°	5673.9	533.8	78.2	49.1	36.9	33.5	48.0	54.7	48.0	34.6
6463.4	75°	3681.7	285.9	60.3	32.4	19.0	21.2	35.7	40.2	33.5	22.3
1897.3	77.5°	1236.2	126.2	38.0	15.6	8.9	8.9	21.2	24.6	15.6	7.8
345.1	80°	275.8	52.5	15.6	6.7	3.4	3.4	4.5	4.5	2.2	0.0
106.1	82.5°	90.5	21.2	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
26.8	85°	34.6	7.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.9	87.5°	13.4	1.1	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>
2758.2
2721.4
2393.1
1904.0
1278.6
769.4
570.6
534.9
510.3
476.8
433.3
390.8
347.3
295.9
247.9
211.1
192.1
180.9
173.1
166.4
159.7
150.8
141.8
131.8
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