

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: P951063

Luminaire Tested: **GALN-SB5B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951063
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-SB5B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA 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: 20593 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

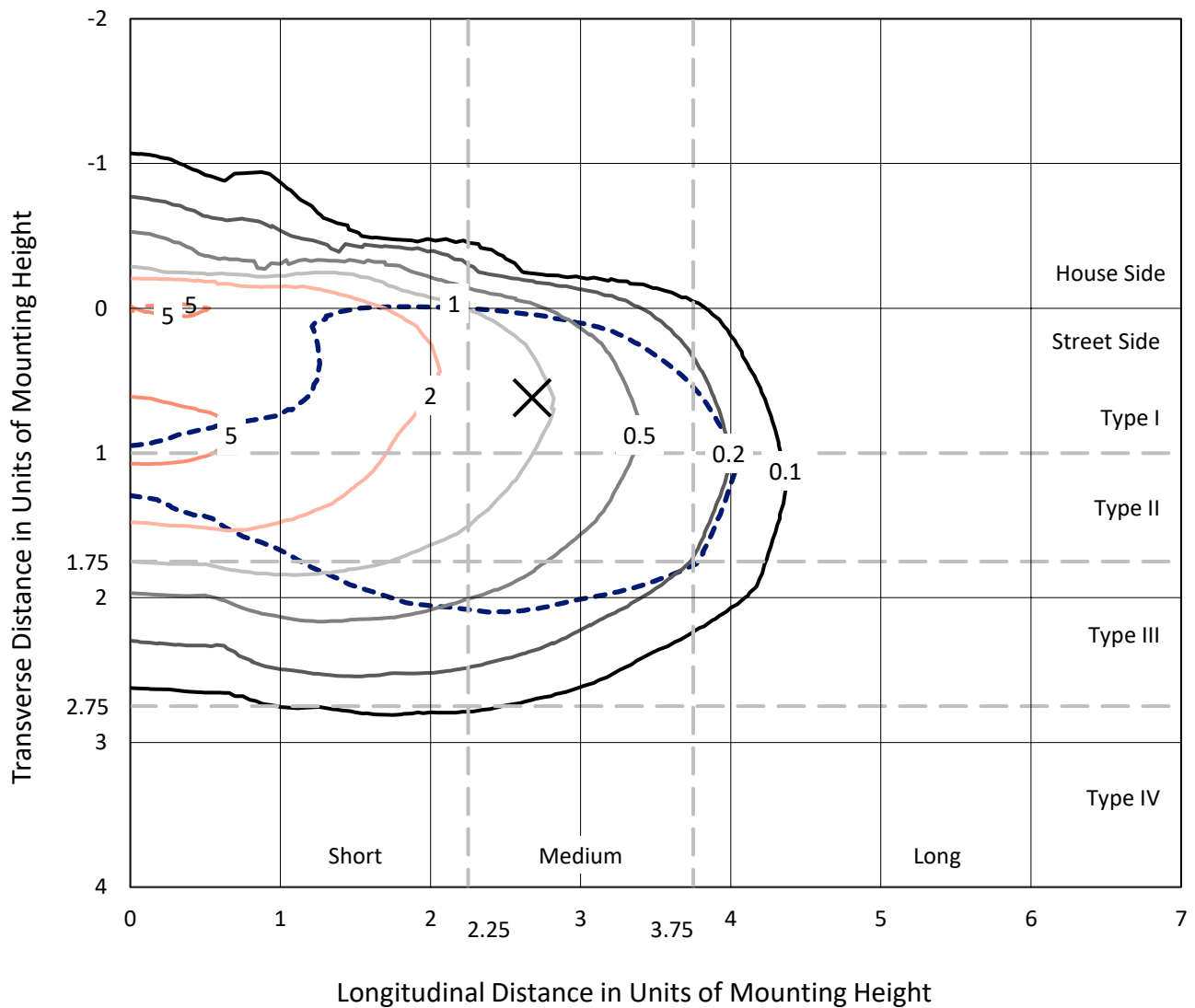
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

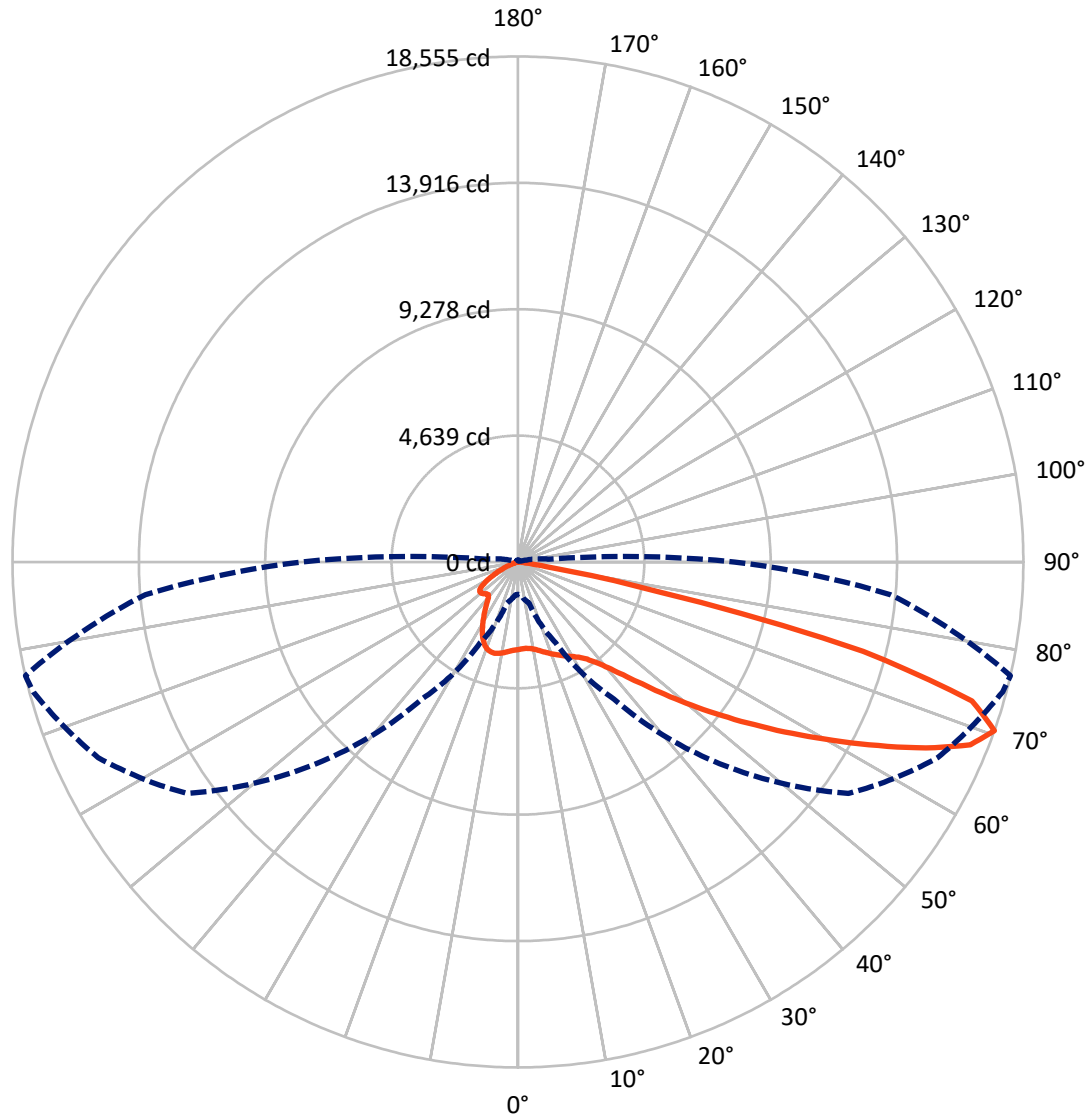
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2170.8	0.0	2170.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18422.2	0.0	18422.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	20593.0	0.0	20593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	1.3
10°-20°	657.2	3.2
20°-30°	1016.5	4.9
30°-40°	1844.4	9.0
40°-50°	3481.6	16.9
50°-60°	5030.6	24.4
60°-70°	5354.9	26.0
70°-80°	2837.7	13.8
80°-90°	93.2	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°	20593.0	100.0
0°-180°	20593.0	100.0

Coefficient of Utilization



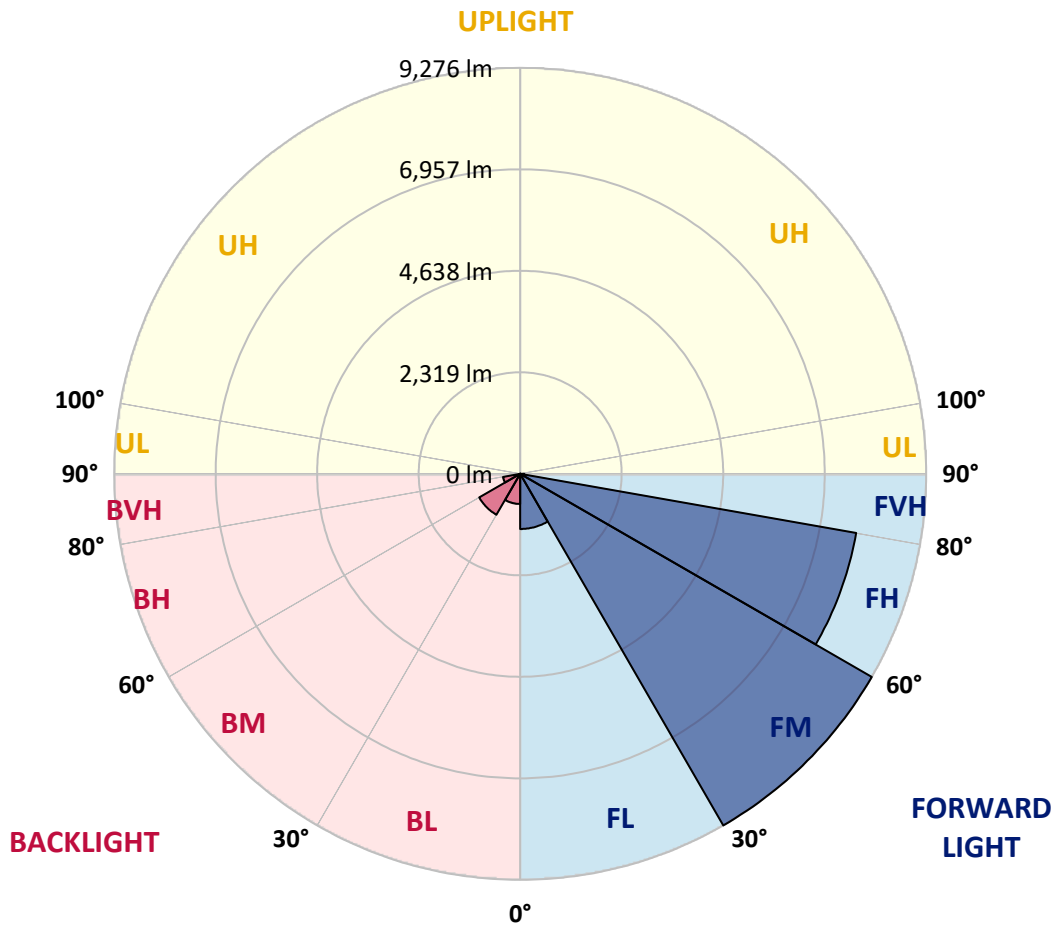
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.8	6.1			
FM (30°-60°)	9276.0	45.0			
FH (60°-80°)	7794.7	37.9			G4/12000
FVH (80°-90°)	90.7	0.4			G1/100
BL (0°-30°)	689.7	3.3	B2/1000		
BM (30°-60°)	1080.6	5.2	B2/2500		
BH (60°-80°)	397.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.5	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°	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1
2.5°	3015.8	3043.1	3039.2	3057.4	3063.9	3089.9	3115.9	3151.0	3190.0	3188.7
5°	2845.4	2872.7	2879.2	2903.9	2935.1	2975.5	3028.8	3099.0	3171.8	3183.5
7.5°	2643.8	2672.4	2689.4	2738.8	2796.0	2879.2	2966.3	3069.1	3190.0	3206.9
10°	2442.3	2468.3	2490.4	2560.6	2651.6	2775.2	2916.9	3065.2	3227.7	3252.5
12.5°	2317.4	2342.1	2366.8	2428.0	2541.1	2692.0	2884.4	3083.4	3290.2	3325.3
15°	2273.2	2295.3	2314.8	2369.4	2474.8	2646.4	2877.9	3121.1	3369.5	3416.3
17.5°	2279.7	2291.4	2304.4	2346.0	2448.8	2625.6	2889.6	3186.1	3463.1	3504.7
20°	2317.4	2323.9	2325.2	2353.8	2444.9	2623.0	2913.0	3248.5	3551.6	3607.5
22.5°	2365.5	2368.1	2365.5	2385.0	2469.6	2642.5	2944.2	3324.0	3650.4	3702.4
25°	2590.5	2541.1	2478.7	2441.0	2511.2	2680.2	2991.1	3425.4	3758.3	3809.0
27.5°	3288.9	3147.1	2923.4	2672.4	2597.0	2734.9	3056.1	3528.1	3867.6	3913.1
30°	4422.9	4236.9	3857.2	3291.5	2872.7	2849.3	3140.6	3630.9	3983.3	4032.7
32.5°	5559.5	5514.0	5075.7	4292.8	3493.0	3104.2	3281.1	3770.0	4136.8	4175.8
35°	6709.1	6616.7	6257.8	5484.0	4448.9	3623.1	3515.1	3952.1	4338.3	4382.6
37.5°	7589.5	7533.6	7311.2	6674.0	5582.9	4424.2	3915.7	4234.3	4630.9	4680.4
40°	8367.2	8341.2	8265.7	7845.7	6850.8	5472.3	4538.6	4671.3	5036.7	5095.2
42.5°	8978.4	9039.5	9082.4	8965.4	8157.8	6668.8	5376.1	5285.1	5602.4	5662.2
45°	9603.9	9624.7	9797.7	9966.7	9455.6	7919.8	6320.2	6004.2	6305.9	6380.1
47.5°	10005.7	10089.0	10393.3	10691.1	10546.7	9160.4	7334.6	6853.4	7121.3	7260.5
50°	10035.6	10193.0	10611.8	11130.6	11341.3	10341.3	8437.4	7821.0	8105.8	8259.2
52.5°	9537.6	9782.1	10431.0	11190.5	11770.5	11341.3	9577.9	8788.5	9153.9	9354.2
55°	7312.5	7632.4	9750.8	10865.3	11787.4	12099.5	10688.5	9796.4	10321.8	10548.0
57.5°	6371.0	6532.2	7666.2	10300.9	11474.0	12405.1	11692.4	10756.1	11592.3	11873.2
60°	5300.7	5512.6	6429.5	9377.6	11048.7	12435.0	12579.3	11994.1	12969.5	13285.5
62.5°	3602.3	3832.5	4744.1	7791.1	10467.4	12420.7	13306.3	13268.6	14500.1	14839.5
65°	2231.6	2375.9	2976.8	6361.9	9654.6	12436.3	14067.1	14816.1	16115.3	16459.9
67.5°	1763.4	1829.7	2143.2	4884.5	8254.0	12085.2	14826.5	16271.4	17635.5	17908.6
70°	1184.7	1225.0	1559.3	3274.6	6140.8	10464.8	14812.2	17002.2	18418.4	18555.0
72.5°	624.2	655.4	911.6	1516.3	3708.9	7438.6	12485.7	16128.3	17639.4	17434.0
75°	312.1	364.1	613.8	769.9	1584.0	4148.5	7753.3	12715.9	13883.7	13087.8
77.5°	236.7	286.1	507.2	507.2	551.4	1396.7	3283.7	6935.4	6397.0	5326.7
80°	150.9	195.1	443.5	383.6	230.2	355.0	855.7	1942.9	1359.0	1033.9
82.5°	88.4	127.4	369.3	253.6	128.7	131.3	241.9	413.5	352.4	274.4
85°	35.1	83.2	253.6	100.1	50.7	32.5	72.8	88.4	72.8	54.6
87.5°	0.0	19.5	44.2	0.0	3.9	2.6	5.2	6.5	6.5	5.2
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°
3212.1	0°	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1	3212.1
3214.7	2.5°	3226.4	3229.0	3236.8	3238.1	3219.9	3196.5	3187.4	3183.5	3167.9	3166.6
3235.5	5°	3265.5	3277.2	3265.5	3231.6	3151.0	3037.9	2952.0	2881.8	2818.1	2798.6
3307.1	7.5°	3343.5	3355.2	3320.1	3187.4	2984.6	2759.6	2556.7	2413.7	2284.9	2236.8
3394.2	10°	3455.3	3470.9	3360.4	3092.5	2733.6	2372.0	2028.7	1786.8	1598.3	1521.5
3512.5	12.5°	3595.8	3602.3	3382.5	2948.1	2407.2	1890.9	1404.5	1145.7	977.9	915.5
3655.6	15°	3750.5	3741.4	3385.1	2751.8	1962.4	1336.9	916.8	753.0	685.3	664.5
3798.6	17.5°	3913.1	3875.4	3333.1	2468.3	1474.7	914.2	680.1	641.1	629.4	624.2
3940.4	20°	4073.0	3988.5	3238.1	2097.6	1058.6	682.7	617.7	606.0	599.5	596.9
4083.4	22.5°	4218.7	4074.3	3075.6	1667.2	768.6	603.4	583.9	573.5	561.8	556.6
4222.6	25°	4360.4	4123.8	2846.7	1265.3	615.1	564.4	548.8	529.3	513.7	507.2
4372.1	27.5°	4498.3	4155.0	2560.6	936.3	548.8	528.0	499.4	472.1	460.4	457.8
4532.1	30°	4645.2	4165.4	2235.5	698.3	508.5	482.5	440.9	409.6	403.1	404.4
4748.0	32.5°	4824.7	4181.0	1907.8	572.2	474.7	427.9	378.4	345.9	340.7	345.9
5062.7	35°	5039.3	4212.2	1591.8	526.7	444.8	371.9	318.6	291.3	286.1	290.0
5465.8	37.5°	5330.6	4262.9	1296.6	517.6	420.0	325.1	267.9	245.8	245.8	247.1
5960.0	40°	5718.1	4398.2	1032.6	511.1	407.0	290.0	226.3	217.2	221.1	223.7
6589.4	42.5°	6190.2	4685.6	854.4	503.3	392.7	274.4	205.5	201.6	208.1	210.7
7343.7	45°	6719.5	5049.7	792.0	490.3	379.7	284.8	196.4	191.2	199.0	200.3
8189.0	47.5°	7267.0	5406.0	784.2	476.0	366.7	300.4	193.8	182.1	191.2	192.5
9091.5	50°	7821.0	5638.8	792.0	453.9	345.9	300.4	195.1	173.0	180.8	184.7
10027.8	52.5°	8378.9	5745.4	786.8	405.7	309.5	282.2	195.1	165.2	173.0	175.6
11039.6	55°	8919.9	5724.6	707.5	334.2	262.7	249.7	189.9	158.7	163.9	165.2
11995.4	57.5°	9347.7	5434.6	560.5	260.1	213.3	208.1	173.0	150.9	154.8	153.5
12872.0	60°	9571.4	4797.4	400.5	200.3	167.8	163.9	152.2	140.4	143.1	136.5
13614.5	62.5°	9574.0	3954.7	267.9	158.7	133.9	130.0	130.0	126.1	123.5	110.5
14189.3	65°	9369.8	3019.7	178.2	126.1	107.9	101.4	109.2	107.9	98.8	80.6
14364.9	67.5°	8906.9	1979.3	135.2	98.8	83.2	79.3	87.1	91.0	84.5	67.6
13725.1	70°	7954.9	1152.2	111.8	76.7	62.4	58.5	70.2	78.0	70.2	54.6
11731.4	72.5°	6607.6	621.6	91.0	57.2	42.9	39.0	55.9	63.7	55.9	40.3
7527.1	75°	4287.6	332.9	70.2	37.7	22.1	24.7	41.6	46.8	39.0	26.0
2209.5	77.5°	1439.6	147.0	44.2	18.2	10.4	10.4	24.7	28.6	18.2	9.1
401.8	80°	321.2	61.1	18.2	7.8	3.9	3.9	5.2	5.2	2.6	0.0
123.5	82.5°	105.3	24.7	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
31.2	85°	40.3	9.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.4	87.5°	15.6	1.3	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>
3212.1
3169.2
2786.9
2217.3
1489.0
896.0
664.5
622.9
594.3
555.3
504.6
455.2
404.4
344.6
288.7
245.8
223.7
210.7
201.6
193.8
186.0
175.6
165.2
153.5
135.2
106.6
78.0
66.3
52.0
39.0
23.4
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