

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: P952491

Luminaire Tested: **GALN-SB6B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952491
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-SB6B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 24721 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

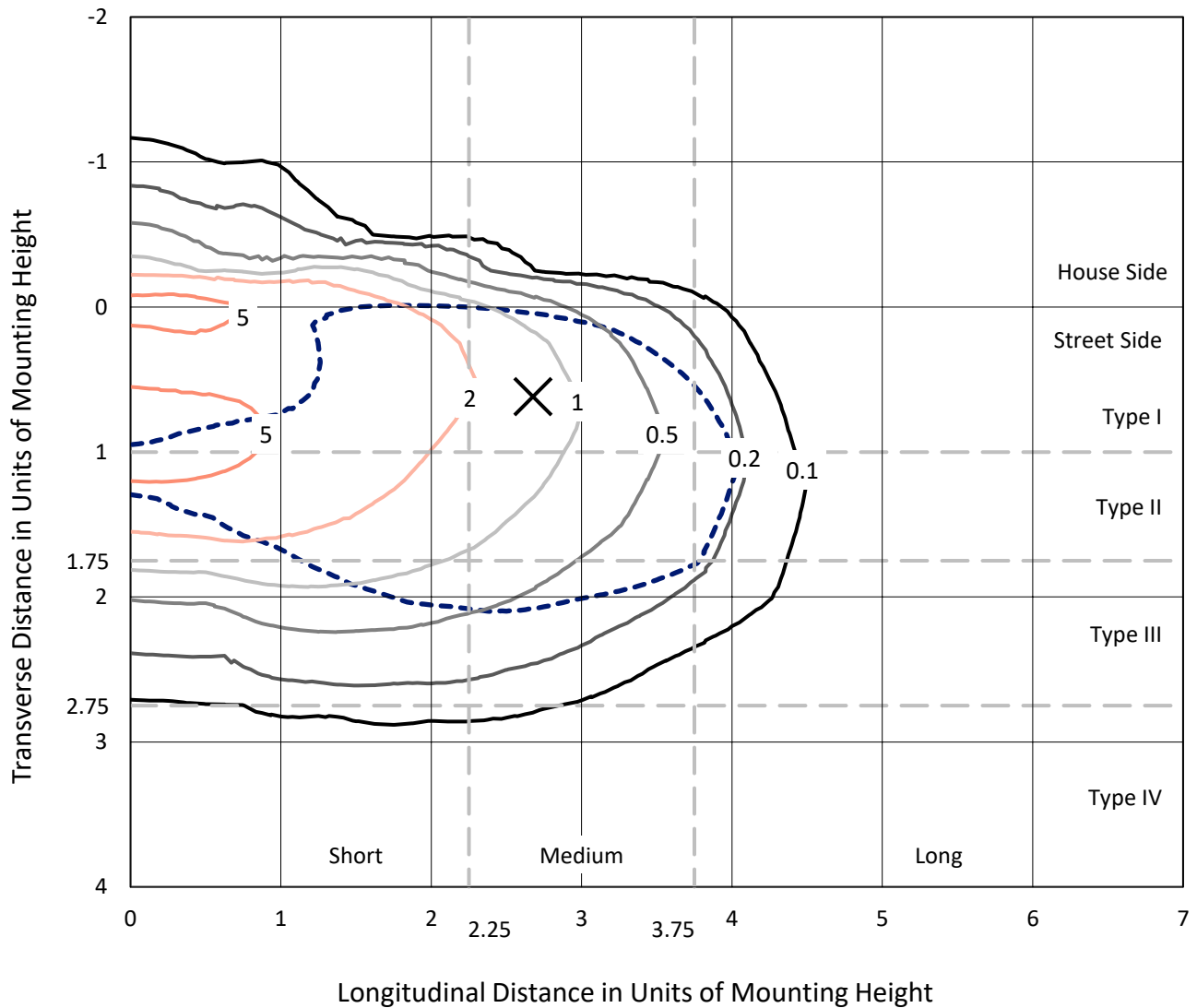
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

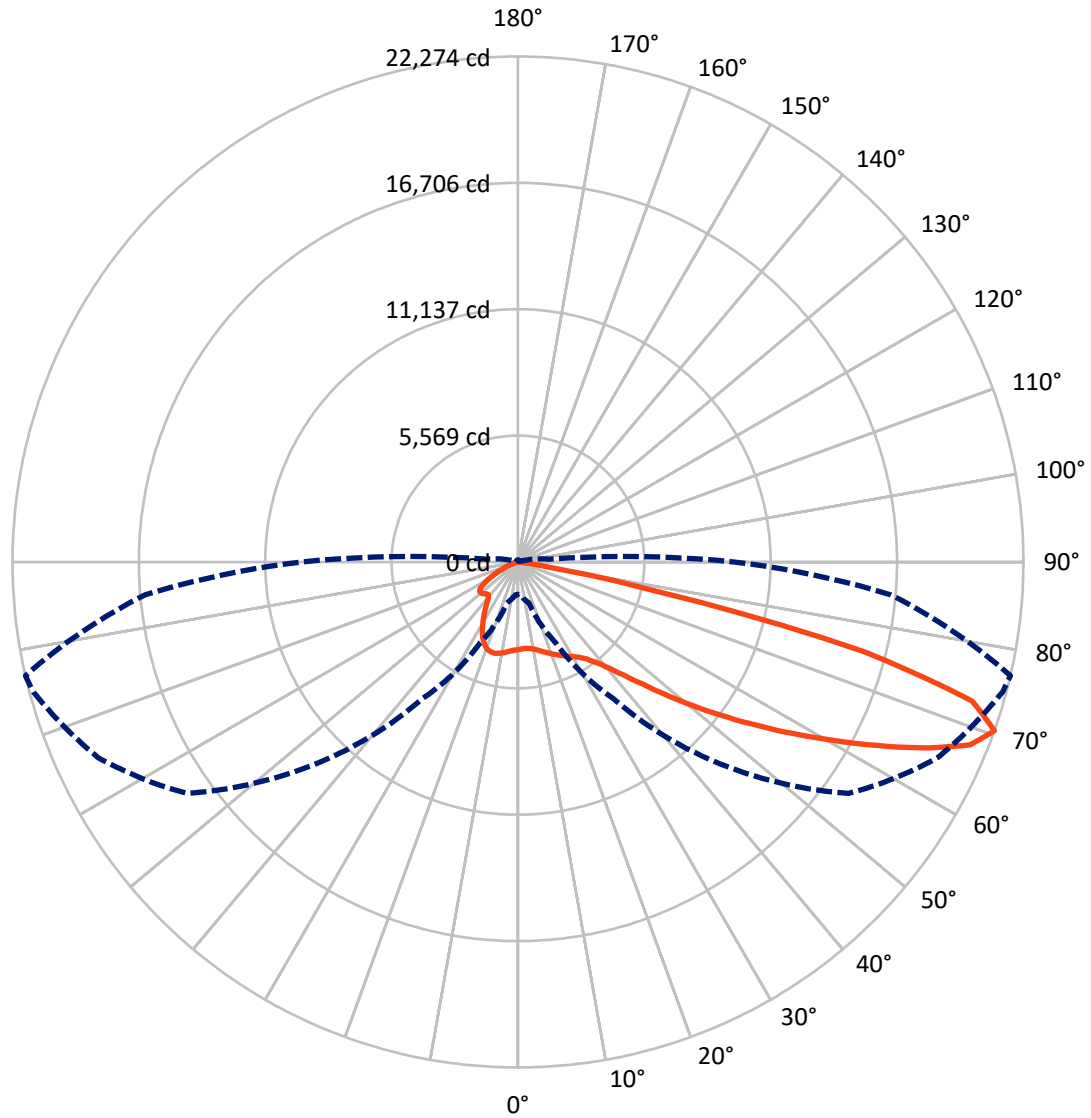
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	2606.0	0.0	2606.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22115.1	0.0	22115.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	24721.0	0.0	24721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	1.3
10°-20°	788.9	3.2
20°-30°	1220.2	4.9
30°-40°	2214.2	9.0
40°-50°	4179.5	16.9
50°-60°	6039.0	24.4
60°-70°	6428.4	26.0
70°-80°	3406.6	13.8
80°-90°	111.9	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°	24721.0	100.0
0°-180°	24721.0	100.0

Coefficient of Utilization



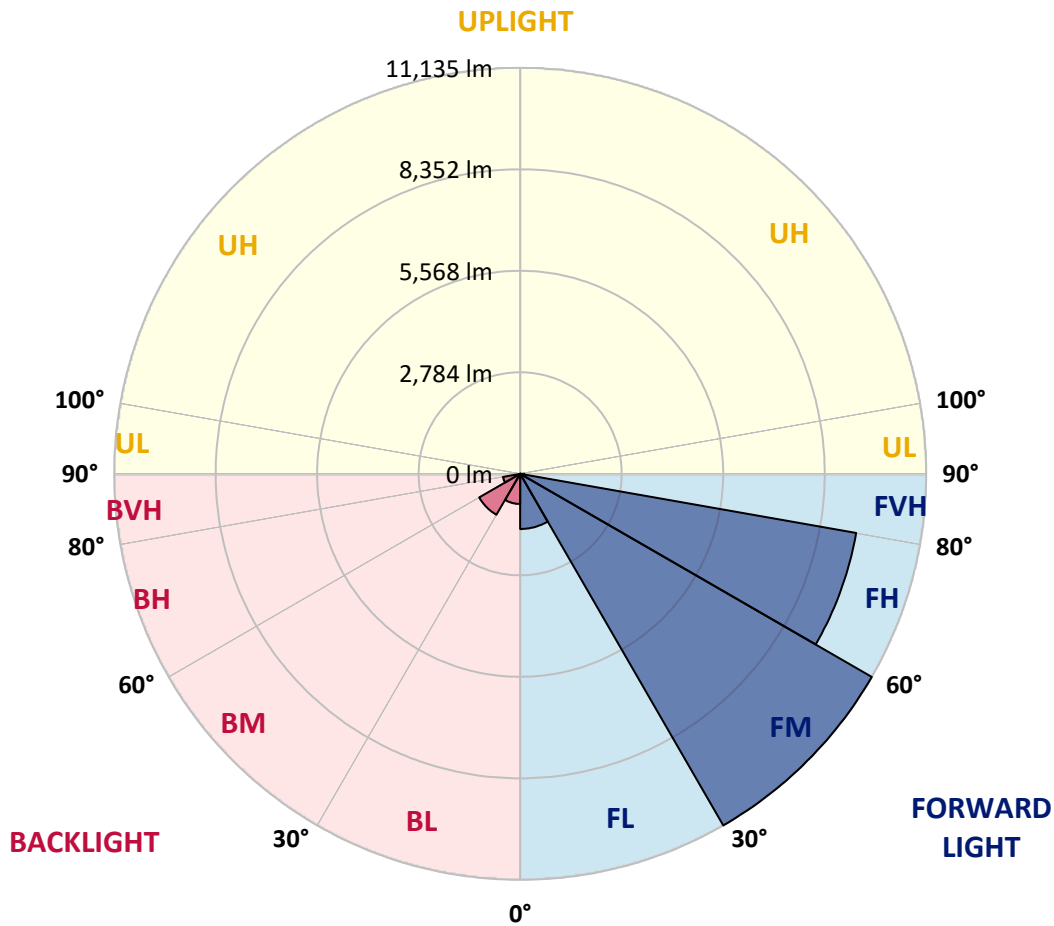
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.5	6.1			
FM (30°-60°)	11135.5	45.0			
FH (60°-80°)	9357.2	37.9			G4/12000
FVH (80°-90°)	108.8	0.4			G2/225
BL (0°-30°)	828.0	3.3	B2/1000		
BM (30°-60°)	1297.3	5.2	B2/2500		
BH (60°-80°)	477.7	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0
2.5°	3620.3	3653.1	3648.4	3670.3	3678.1	3709.3	3740.5	3782.7	3829.5	3827.9
5°	3415.8	3448.6	3456.4	3486.0	3523.5	3571.9	3635.9	3720.2	3807.6	3821.7
7.5°	3173.8	3208.2	3228.4	3287.8	3356.5	3456.4	3561.0	3684.3	3829.5	3849.8
10°	2931.8	2963.1	2989.6	3073.9	3183.2	3331.5	3501.6	3679.6	3874.8	3904.4
12.5°	2782.0	2811.6	2841.3	2914.7	3050.5	3231.6	3462.6	3701.5	3949.7	3991.8
15°	2728.9	2755.4	2778.8	2844.4	2970.9	3176.9	3454.8	3746.7	4044.9	4101.1
17.5°	2736.7	2750.7	2766.3	2816.3	2939.6	3152.0	3468.9	3824.8	4157.3	4207.3
20°	2782.0	2789.8	2791.3	2825.7	2935.0	3148.8	3497.0	3899.7	4263.5	4330.6
22.5°	2839.7	2842.8	2839.7	2863.1	2964.6	3172.2	3534.4	3990.3	4382.1	4444.6
25°	3109.8	3050.5	2975.5	2930.3	3014.6	3217.5	3590.6	4112.1	4511.7	4572.6
27.5°	3948.1	3778.0	3509.5	3208.2	3117.6	3283.1	3668.7	4235.4	4642.8	4697.5
30°	5309.5	5086.2	4630.4	3951.3	3448.6	3420.5	3770.2	4358.7	4781.8	4841.1
32.5°	6673.9	6619.3	6093.2	5153.3	4193.2	3726.5	3938.8	4525.8	4966.0	5012.8
35°	8053.9	7943.1	7512.2	6583.4	5340.7	4349.4	4219.8	4744.3	5208.0	5261.1
37.5°	9110.8	9043.7	8776.8	8011.8	6702.0	5311.0	4700.6	5083.1	5559.2	5618.6
40°	10044.4	10013.2	9922.6	9418.4	8224.1	6569.3	5448.4	5607.6	6046.3	6116.6
42.5°	10778.1	10851.5	10903.0	10762.5	9793.1	8005.6	6453.8	6344.5	6725.4	6797.2
45°	11529.1	11554.0	11761.7	11964.6	11351.1	9507.4	7587.2	7207.8	7570.0	7659.0
47.5°	12011.5	12111.4	12476.7	12834.2	12660.9	10996.7	8804.9	8227.2	8548.8	8715.9
50°	12047.4	12236.3	12738.9	13361.8	13614.8	12414.2	10128.7	9388.7	9730.6	9914.8
52.5°	11449.4	11742.9	12521.9	13433.7	14129.9	13614.8	11497.8	10550.2	10988.9	11229.3
55°	8778.3	9162.4	11705.5	13043.4	14150.2	14524.9	12831.1	11760.1	12390.8	12662.5
57.5°	7648.1	7841.6	9203.0	12365.8	13774.0	14891.8	14036.3	12912.2	13916.1	14253.3
60°	6363.2	6617.7	7718.3	11257.4	13263.5	14927.7	15101.0	14398.4	15569.3	15948.7
62.5°	4324.4	4600.7	5695.1	9352.8	12565.7	14910.5	15973.6	15928.4	17406.8	17814.2
65°	2678.9	2852.2	3573.5	7637.1	11589.9	14929.2	16886.9	17786.1	19345.7	19759.4
67.5°	2116.9	2196.5	2572.8	5863.7	9908.6	14507.7	17798.6	19533.1	21170.7	21498.5
70°	1422.2	1470.6	1871.8	3931.0	7371.7	12562.5	17781.4	20410.4	22110.5	22274.4
72.5°	749.3	786.8	1094.4	1820.3	4452.4	8929.8	14988.6	19361.3	21175.4	20928.7
75°	374.7	437.1	736.9	924.2	1901.5	4980.1	9307.5	15264.9	16666.8	15711.4
77.5°	284.1	343.5	608.8	608.8	661.9	1676.7	3941.9	8325.6	7679.3	6394.5
80°	181.1	234.2	532.4	460.5	276.3	426.2	1027.2	2332.4	1631.4	1241.1
82.5°	106.2	153.0	443.4	304.4	154.6	157.7	290.4	496.4	423.1	329.4
85°	42.2	99.9	304.4	120.2	60.9	39.0	87.4	106.2	87.4	65.6
87.5°	0.0	23.4	53.1	0.0	4.7	3.1	6.2	7.8	7.8	6.2
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°
3856.0	0°	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0	3856.0
3859.2	2.5°	3873.2	3876.3	3885.7	3887.3	3865.4	3837.3	3826.4	3821.7	3803.0	3801.4
3884.1	5°	3920.0	3934.1	3920.0	3879.4	3782.7	3646.8	3543.8	3459.5	3383.0	3359.6
3970.0	7.5°	4013.7	4027.8	3985.6	3826.4	3582.8	3312.8	3069.2	2897.5	2742.9	2685.2
4074.6	10°	4148.0	4166.7	4034.0	3712.4	3281.5	2847.5	2435.4	2145.0	1918.6	1826.5
4216.7	12.5°	4316.6	4324.4	4060.5	3539.1	2889.7	2269.9	1686.0	1375.4	1174.0	1099.0
4388.4	15°	4502.3	4491.4	4063.7	3303.4	2355.8	1604.9	1100.6	903.9	822.7	797.7
4560.1	17.5°	4697.5	4652.2	4001.2	2963.1	1770.3	1097.5	816.5	769.6	755.6	749.3
4730.3	20°	4889.5	4788.0	3887.3	2518.1	1270.8	819.6	741.5	727.5	719.7	716.6
4902.0	22.5°	5064.4	4891.1	3692.1	2001.4	922.6	724.4	701.0	688.5	674.4	668.2
5069.0	25°	5234.5	4950.4	3417.3	1519.0	738.4	677.5	658.8	635.4	616.7	608.8
5248.6	27.5°	5400.0	4987.9	3073.9	1124.0	658.8	633.8	599.5	566.7	552.6	549.5
5440.6	30°	5576.4	5000.3	2683.6	838.3	610.4	579.2	529.2	491.8	484.0	485.5
5699.7	32.5°	5791.9	5019.1	2290.2	686.9	569.8	513.6	454.3	415.3	409.0	415.3
6077.5	35°	6049.4	5056.6	1910.8	632.3	533.9	446.5	382.5	349.7	343.5	348.1
6561.5	37.5°	6399.1	5117.4	1556.5	621.3	504.3	390.3	321.6	295.1	295.1	296.6
7154.7	40°	6864.4	5279.8	1239.5	613.5	488.6	348.1	271.6	260.7	265.4	268.5
7910.3	42.5°	7431.1	5624.8	1025.7	604.2	471.5	329.4	246.7	242.0	249.8	252.9
8815.8	45°	8066.4	6061.9	950.7	588.6	455.9	341.9	235.7	229.5	238.9	240.4
9830.5	47.5°	8723.7	6489.7	941.4	571.4	440.2	360.6	232.6	218.6	229.5	231.0
10914.0	50°	9388.7	6769.1	950.7	544.8	415.3	360.6	234.2	207.6	217.0	221.7
12038.0	52.5°	10058.5	6897.1	944.5	487.1	371.6	338.8	234.2	198.3	207.6	210.8
13252.6	55°	10707.9	6872.2	849.3	401.2	315.4	299.7	227.9	190.5	196.7	198.3
14400.0	57.5°	11221.5	6524.0	672.9	312.2	256.0	249.8	207.6	181.1	185.8	184.2
15452.2	60°	11490.0	5759.1	480.8	240.4	201.4	196.7	182.7	168.6	171.7	163.9
16343.6	62.5°	11493.2	4747.4	321.6	190.5	160.8	156.1	156.1	151.4	148.3	132.7
17033.7	65°	11248.1	3625.0	213.9	151.4	129.6	121.8	131.1	129.6	118.6	96.8
17244.4	67.5°	10692.3	2376.1	162.4	118.6	99.9	95.2	104.6	109.3	101.5	81.2
16476.3	70°	9549.5	1383.2	134.3	92.1	74.9	70.3	84.3	93.7	84.3	65.6
14083.1	72.5°	7932.2	746.2	109.3	68.7	51.5	46.8	67.1	76.5	67.1	48.4
9035.9	75°	5147.1	399.7	84.3	45.3	26.5	29.7	50.0	56.2	46.8	31.2
2652.4	77.5°	1728.2	176.4	53.1	21.9	12.5	12.5	29.7	34.3	21.9	10.9
482.4	80°	385.6	73.4	21.9	9.4	4.7	4.7	6.2	6.2	3.1	0.0
148.3	82.5°	126.5	29.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
37.5	85°	48.4	10.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	18.7	1.6	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>
3856.0
3804.5
3345.5
2661.8
1787.5
1075.6
797.7
747.8
713.4
666.6
605.7
546.4
485.5
413.7
346.6
295.1
268.5
252.9
242.0
232.6
223.2
210.8
198.3
184.2
162.4
128.0
93.7
79.6
62.4
46.8
28.1
9.4
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