

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: P956920

Luminaire Tested: **GALN-SB9B-935-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-935-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

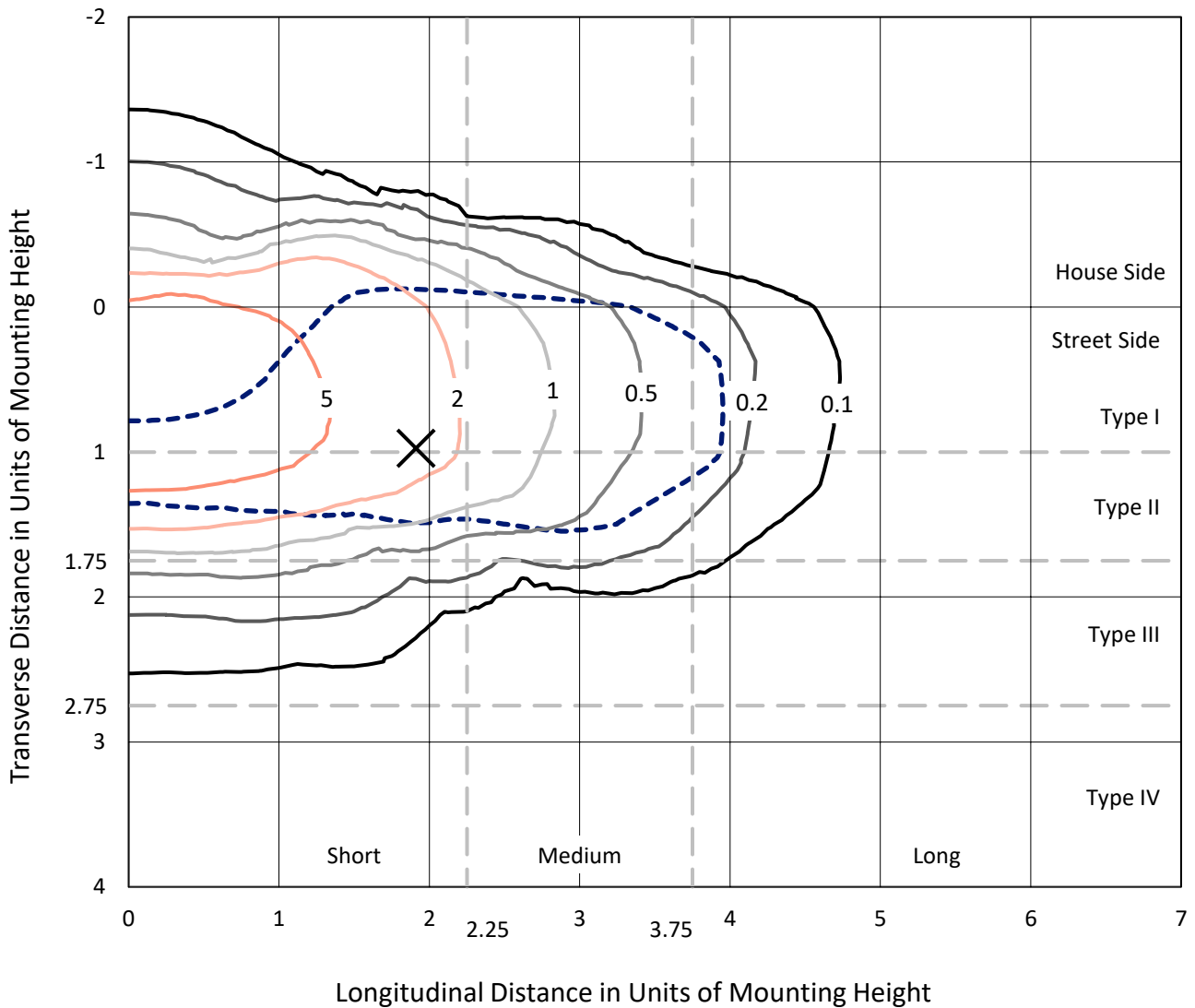
Lumens per Lamp: N/A  
Luminaire Lumens: 27268 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

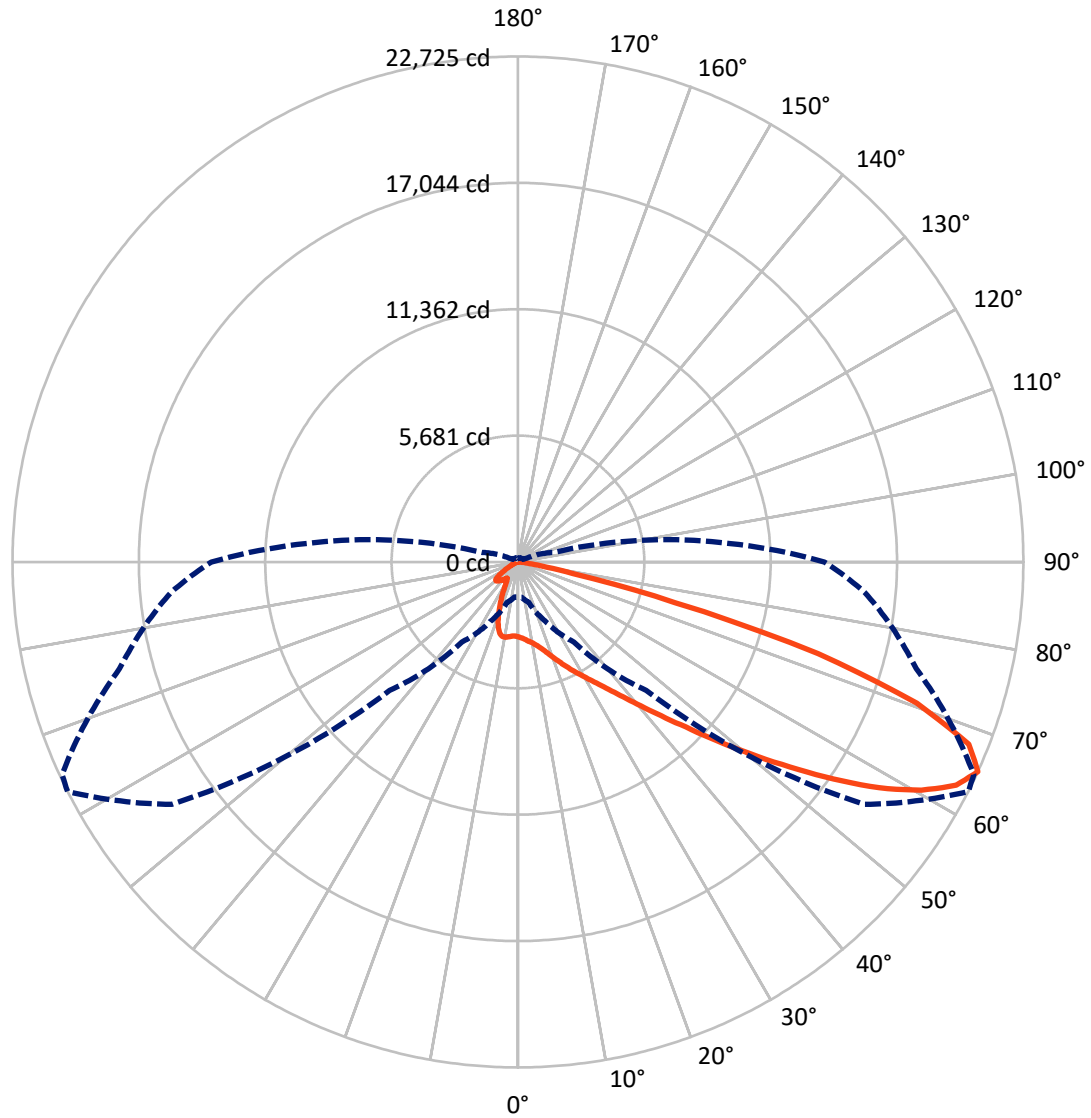
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4008.2	0.0	4008.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	23259.8	0.0	23259.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	27268.0	0.0	27268.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.1	1.2
10°-20°	879.8	3.2
20°-30°	1531.9	5.6
30°-40°	2761.1	10.1
40°-50°	5476.2	20.1
50°-60°	7459.6	27.4
60°-70°	5954.2	21.8
70°-80°	2694.4	9.9
80°-90°	193.7	0.7
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°	27268.0	100.0
0°-180°	27268.0	100.0



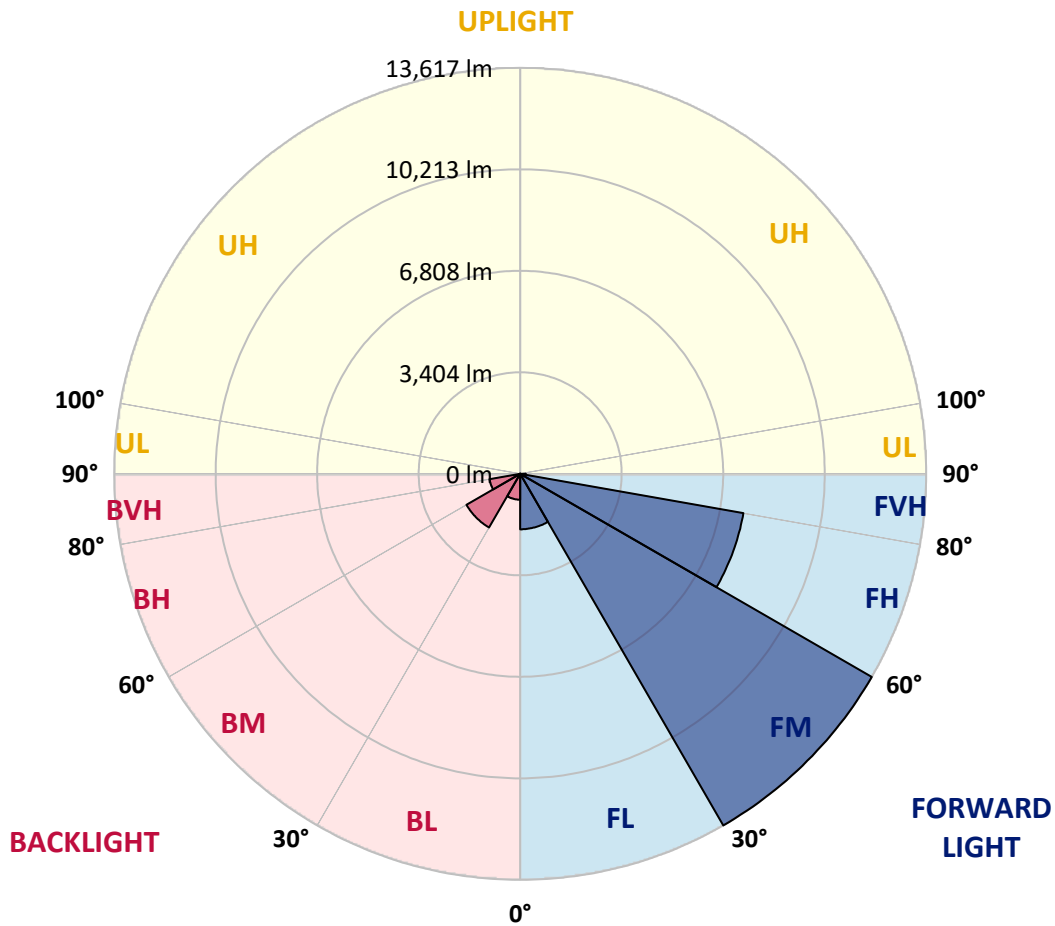
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1861.4	6.8			
FM (30°-60°)	13617.0	49.9			
FH (60°-80°)	7602.2	27.9			G4/12000
FVH (80°-90°)	179.3	0.7			G2/225
BL (0°-30°)	867.4	3.2	B2/1000		
BM (30°-60°)	2080.0	7.6	B2/2500		
BH (60°-80°)	1046.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	3444.2	3434.8	3447.9	3442.3	3438.5	3431.0	3427.3	3423.5	3416.0	3410.4
5°	3453.6	3447.9	3461.1	3472.3	3483.6	3494.8	3500.5	3508.0	3500.5	3485.4
7.5°	3374.8	3371.0	3399.2	3432.9	3483.6	3526.7	3573.6	3599.9	3601.8	3596.1
10°	3369.1	3359.8	3387.9	3429.2	3494.8	3571.7	3654.3	3710.6	3718.1	3742.4
12.5°	3457.3	3447.9	3487.3	3532.3	3599.9	3680.5	3781.8	3860.6	3871.9	3905.6
15°	3605.5	3592.4	3637.4	3695.5	3781.8	3873.8	3980.7	4052.0	4061.3	4102.6
17.5°	3778.1	3765.0	3817.5	3879.4	3973.2	4098.9	4222.7	4301.5	4312.7	4339.0
20°	3999.4	3982.6	4023.8	4080.1	4179.5	4329.6	4477.8	4590.4	4588.5	4588.5
22.5°	4256.4	4230.2	4265.8	4310.8	4404.6	4586.6	4783.6	4916.8	4916.8	4864.2
25°	4532.2	4505.9	4545.3	4586.6	4669.1	4875.5	5106.2	5271.3	5278.8	5188.8
27.5°	4877.4	4843.6	4873.6	4922.4	4971.2	5181.3	5455.2	5646.5	5650.2	5511.4
30°	5541.4	5445.8	5352.0	5299.5	5322.0	5530.2	5822.8	6034.8	6053.6	5862.2
32.5°	6757.0	6738.3	6408.1	5976.7	5751.5	5905.4	6233.7	6488.8	6500.0	6254.3
35°	8646.1	8623.6	8092.7	7271.0	6537.6	6408.1	6732.6	7034.7	7027.2	6749.5
37.5°	10900.9	10880.3	10180.6	9081.3	7893.8	7167.9	7376.1	7693.1	7740.0	7376.1
40°	12827.5	12750.6	12307.9	11248.0	9694.7	8428.5	8291.5	8501.6	8550.4	8118.9
42.5°	14286.9	14221.3	13996.2	13334.0	11874.5	10293.1	9370.2	9450.8	9505.2	8987.5
45°	15042.9	15027.9	15118.0	15056.1	14095.6	12581.7	10912.2	10576.4	10597.0	9949.8
47.5°	15149.9	15142.4	15553.2	16134.7	16005.3	15163.0	12891.3	11979.6	11906.4	11036.0
50°	14519.6	14504.6	15292.4	16382.3	17280.9	17331.6	15138.6	13561.0	13399.6	12159.7
52.5°	12506.7	12503.0	13797.3	15611.3	17729.2	19230.0	17359.7	15298.1	15027.9	13349.0
55°	9623.4	9692.8	11176.7	13320.9	16911.3	20143.5	19353.8	17226.5	16811.9	14545.8
57.5°	6817.1	6918.4	8385.3	10295.0	14375.1	19603.3	20702.6	19158.7	18712.2	15738.9
60°	3661.8	3751.8	5220.7	7499.9	10694.6	17588.6	21413.5	20835.8	20413.7	16872.0
62.5°	2181.7	2211.7	2819.5	4841.7	7233.5	13437.2	21111.5	22113.3	21766.2	17823.0
65°	1566.4	1572.0	1877.8	2956.4	4391.5	8164.0	18993.6	22724.8	22617.9	18539.6
67.5°	1318.8	1315.0	1442.6	1964.1	2992.1	4089.5	14557.1	21860.0	22314.0	18993.6
70°	1131.2	1136.8	1286.9	1438.8	2249.2	2314.9	7237.3	19033.0	20001.0	19113.7
72.5°	842.3	861.0	999.9	1311.3	1697.7	1592.6	2498.7	14112.5	15862.7	18008.8
75°	594.7	604.0	703.5	1103.0	1266.2	1159.3	1275.6	7295.4	9539.0	13806.7
77.5°	457.7	474.6	532.8	771.0	1247.5	814.1	780.4	2525.0	3879.4	8340.3
80°	247.6	277.6	384.6	557.1	876.1	575.9	386.4	1005.5	1315.0	3900.0
82.5°	127.6	142.6	268.3	401.4	499.0	502.7	191.3	418.3	542.1	1204.3
85°	50.6	61.9	180.1	221.4	257.0	247.6	86.3	168.8	195.1	333.9
87.5°	11.3	18.8	65.7	50.6	48.8	52.5	20.6	39.4	37.5	39.4
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°
3365.4	0°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
3387.9	2.5°	3386.0	3378.5	3357.9	3335.4	3309.1	3294.1	3284.7	3282.8	3269.7	3260.3
3462.9	5°	3442.3	3434.8	3395.4	3348.5	3297.9	3258.5	3220.9	3187.2	3138.4	3129.0
3571.7	7.5°	3554.9	3534.2	3470.4	3406.7	3311.0	3196.6	3057.7	2898.3	2755.7	2712.6
3716.2	10°	3693.7	3665.5	3584.9	3472.3	3260.3	2948.9	2613.1	2301.7	2054.1	1984.7
3886.9	12.5°	3851.2	3826.9	3719.9	3511.7	3048.4	2483.7	1969.7	1583.3	1343.2	1283.1
4068.9	15°	4038.8	4003.2	3855.0	3451.7	2669.4	1887.2	1352.5	1123.7	1037.4	1026.1
4277.1	17.5°	4237.7	4179.5	3975.1	3235.9	2159.2	1341.3	1044.9	979.2	941.7	930.5
4487.2	20°	4419.6	4344.6	4046.3	2909.5	1613.3	1044.9	936.1	892.9	859.2	846.0
4697.3	22.5°	4601.6	4494.7	4046.3	2464.9	1210.0	926.7	859.2	819.8	780.4	763.5
4922.4	25°	4791.1	4648.5	3975.1	1969.7	973.6	849.8	786.0	742.9	709.1	688.5
5136.2	27.5°	4974.9	4777.9	3811.9	1500.7	866.7	782.3	718.5	677.2	645.3	630.3
5368.9	30°	5149.4	4905.5	3583.0	1138.7	797.3	716.6	656.6	620.9	589.0	574.0
5670.9	32.5°	5385.7	5066.8	3339.1	934.2	737.2	654.7	600.3	566.5	538.4	527.1
6062.9	35°	5714.0	5305.1	3129.0	917.3	686.6	604.0	549.6	517.8	489.6	480.2
6569.4	37.5°	6179.3	5689.6	3018.3	1029.9	645.3	559.0	508.4	474.6	448.3	440.8
7212.9	40°	6753.3	6211.1	3078.4	1142.4	617.2	519.6	470.9	437.1	414.6	405.2
7952.0	42.5°	7434.2	6854.6	3410.4	1228.7	598.4	485.9	435.2	397.7	382.7	378.9
8790.5	45°	8216.5	7561.8	3918.8	1320.6	568.4	454.0	399.6	371.4	360.2	358.3
9702.2	47.5°	9105.7	8338.4	4507.8	1435.1	538.4	424.0	371.4	352.7	343.3	339.5
10653.3	50°	9987.4	9120.7	5113.7	1498.9	514.0	395.8	348.9	333.9	326.4	324.5
11658.8	52.5°	10910.3	9925.5	5603.3	1438.8	493.4	373.3	330.2	318.9	311.4	309.5
12585.5	55°	11790.1	10576.4	5687.8	1221.2	452.1	350.8	309.5	303.9	294.5	294.5
13525.3	57.5°	12548.0	10902.8	5091.2	896.7	410.8	317.0	288.9	283.3	275.8	273.9
14373.2	60°	13243.9	10809.0	3930.0	604.0	365.8	283.3	262.6	258.9	251.4	242.0
15110.5	62.5°	13636.0	10396.3	2688.2	393.9	320.8	247.6	232.6	230.7	213.9	195.1
15656.4	65°	13784.2	9548.4	1677.1	287.0	268.3	212.0	200.7	197.0	172.6	151.9
15965.9	67.5°	13654.8	8152.7	846.0	227.0	212.0	176.3	165.1	165.1	148.2	129.4
15947.1	70°	13137.0	6111.7	356.4	182.0	163.2	135.1	135.1	142.6	125.7	105.1
15119.9	72.5°	12013.3	4112.0	189.5	138.8	121.9	95.7	110.7	116.3	99.4	78.8
12375.4	75°	9550.3	2508.1	131.3	103.2	76.9	67.5	84.4	88.2	67.5	52.5
8484.8	77.5°	6531.9	1440.7	88.2	65.7	48.8	39.4	58.2	54.4	35.6	24.4
3271.6	80°	2868.3	600.3	50.6	30.0	18.8	15.0	20.6	15.0	11.3	7.5
448.3	82.5°	335.8	140.7	18.8	11.3	7.5	3.8	1.9	0.0	0.0	0.0
136.9	85°	69.4	16.9	9.4	3.8	1.9	0.0	0.0	0.0	0.0	0.0
24.4	87.5°	13.1	3.8	1.9	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>
3365.4
3269.7
3125.3
2691.9
1958.5
1266.2
1014.9
924.8
838.5
754.1
681.0
630.3
575.9
527.1
480.2
439.0
403.3
378.9
356.4
339.5
324.5
309.5
292.6
272.0
240.1
191.3
150.1
127.6
103.2
78.8
50.6
26.3
7.5
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