

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: P952846

Luminaire Tested: **GALN-SB6C-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952846
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-SB6C-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 30180 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

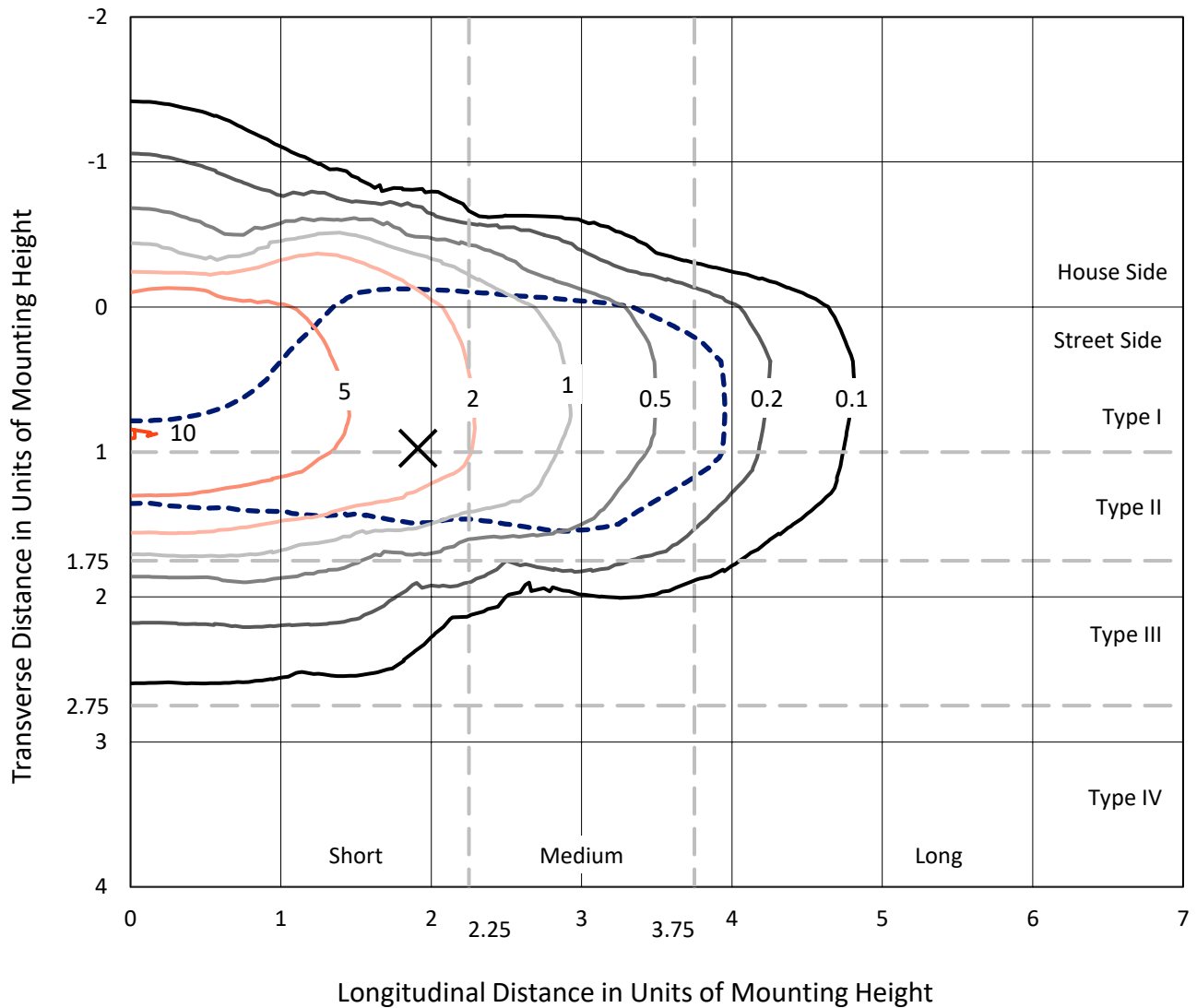
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

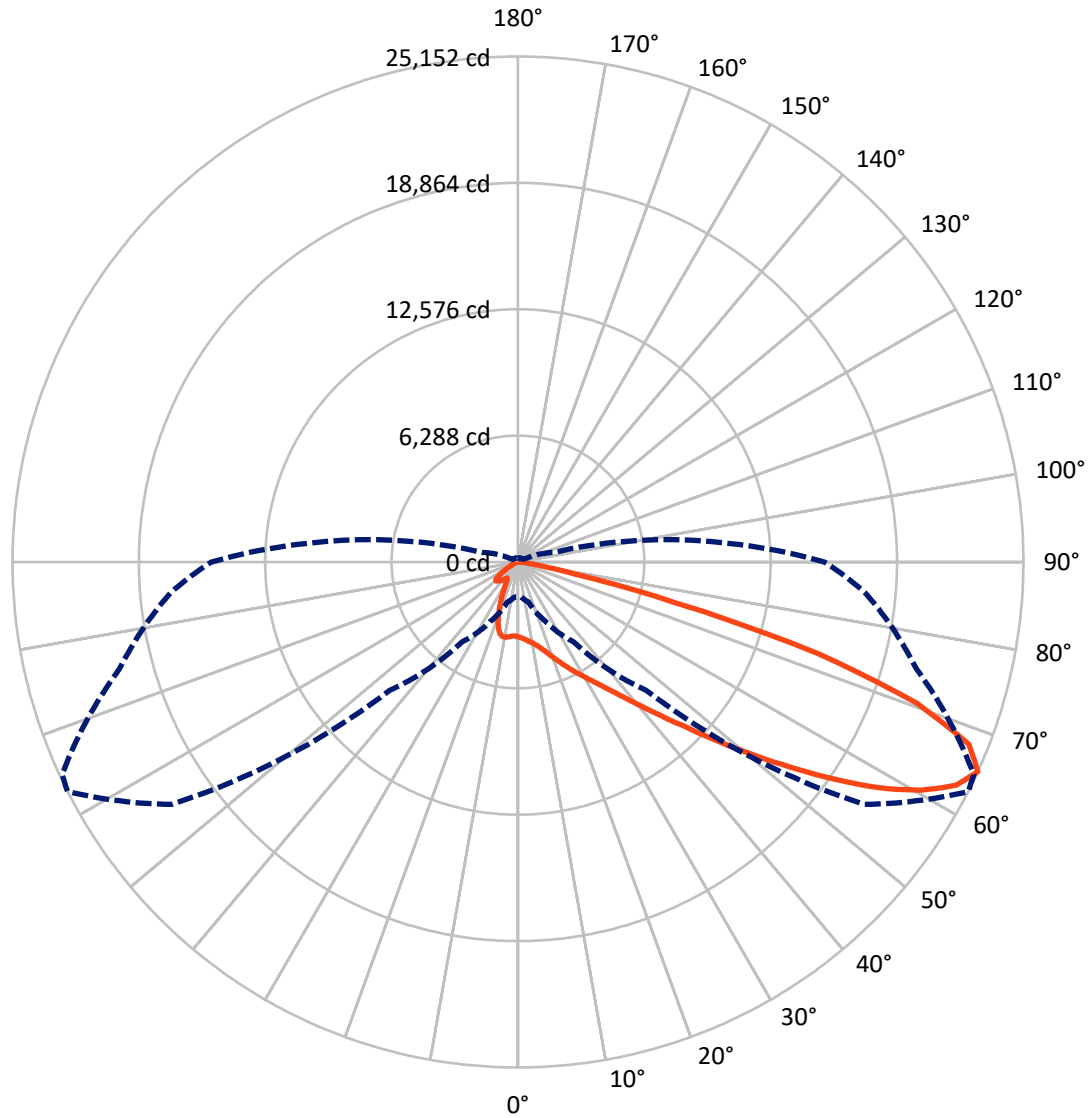
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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
House Side	Lumens	4436.2	0.0	4436.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25743.8	0.0	25743.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	30180.0	0.0	30180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.9	1.2
10°-20°	973.7	3.2
20°-30°	1695.5	5.6
30°-40°	3056.0	10.1
40°-50°	6061.1	20.1
50°-60°	8256.2	27.4
60°-70°	6590.0	21.8
70°-80°	2982.1	9.9
80°-90°	214.4	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°	30180.0	100.0
0°-180°	30180.0	100.0

Coefficient of Utilization



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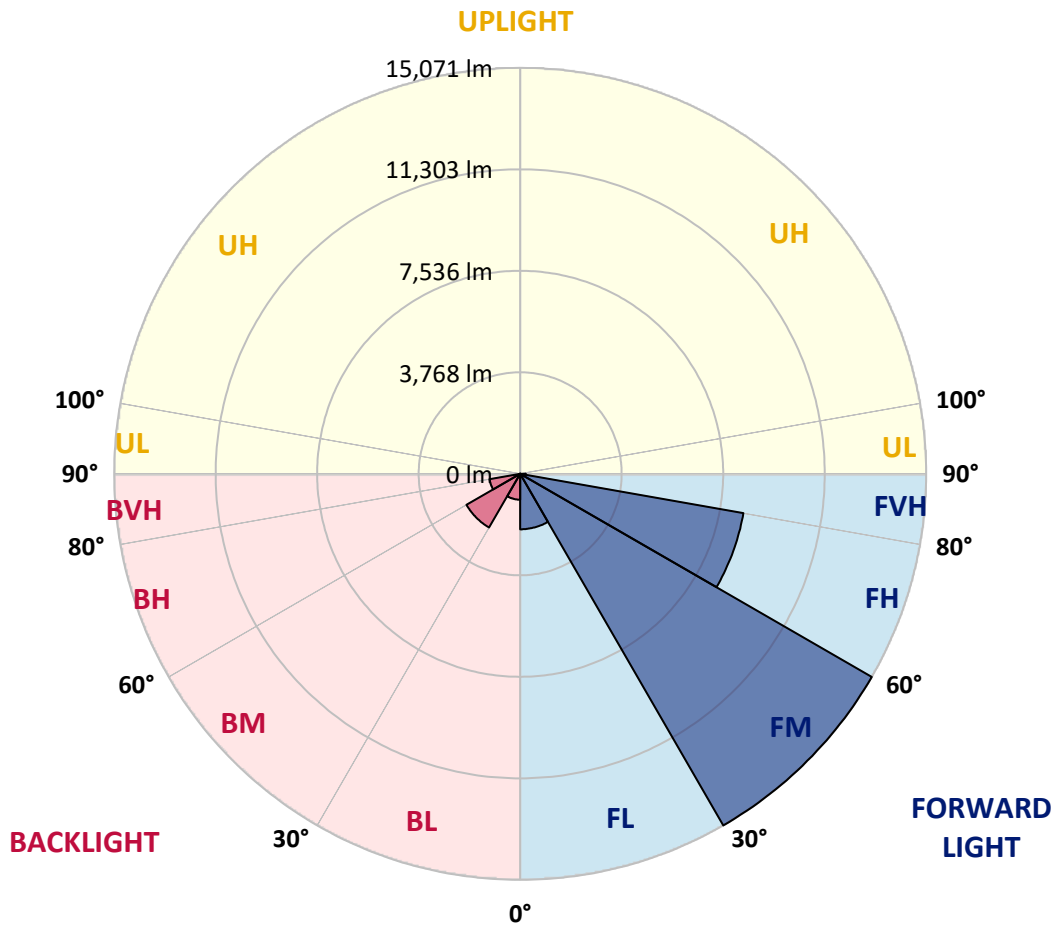
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.2	6.8			
FM (30°-60°)	15071.1	49.9			
FH (60°-80°)	8414.0	27.9			G4/12000
FVH (80°-90°)	198.4	0.7			G2/225
BL (0°-30°)	960.1	3.2	B2/1000		
BM (30°-60°)	2302.1	7.6	B2/2500		
BH (60°-80°)	1158.1	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.9	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°	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8
2.5°	3812.0	3801.6	3816.1	3809.9	3805.8	3797.5	3793.3	3789.1	3780.8	3774.6
5°	3822.4	3816.1	3830.7	3843.1	3855.6	3868.0	3874.3	3882.6	3874.3	3857.7
7.5°	3735.2	3731.0	3762.2	3799.5	3855.6	3903.3	3955.2	3984.3	3986.4	3980.2
10°	3728.9	3718.6	3749.7	3795.4	3868.0	3953.2	4044.5	4106.8	4115.1	4142.1
12.5°	3826.5	3816.1	3859.7	3909.6	3984.3	4073.6	4185.7	4272.9	4285.4	4322.7
15°	3990.5	3976.0	4025.8	4090.2	4185.7	4287.4	4405.8	4484.7	4495.1	4540.7
17.5°	4181.6	4167.0	4225.2	4293.7	4397.5	4536.6	4673.6	4760.8	4773.3	4802.4
20°	4426.6	4407.9	4453.5	4515.8	4625.9	4792.0	4956.0	5080.6	5078.5	5078.5
22.5°	4711.0	4681.9	4721.4	4771.2	4875.0	5076.4	5294.4	5441.8	5441.8	5383.7
25°	5016.2	4987.1	5030.7	5076.4	5167.8	5396.2	5651.5	5834.2	5842.6	5742.9
27.5°	5398.2	5360.9	5394.1	5448.1	5502.0	5734.6	6037.7	6249.5	6253.6	6100.0
30°	6133.2	6027.3	5923.5	5865.4	5890.3	6120.8	6444.7	6679.3	6700.0	6488.3
32.5°	7478.6	7457.9	7092.5	6614.9	6365.8	6536.0	6899.4	7181.7	7194.2	6922.2
35°	9569.4	9544.5	8956.9	8047.5	7235.7	7092.5	7451.6	7785.9	7777.6	7470.3
37.5°	12065.1	12042.2	11267.8	10051.1	8736.8	7933.3	8163.8	8514.7	8566.6	8163.8
40°	14197.4	14112.2	13622.2	12449.2	10730.0	9328.6	9177.0	9409.5	9463.5	8986.0
42.5°	15812.7	15740.0	15490.9	14757.9	13142.6	11392.4	10370.8	10460.1	10520.3	9947.3
45°	16649.4	16632.8	16732.5	16663.9	15600.9	13925.4	12077.5	11705.9	11728.7	11012.4
47.5°	16767.7	16759.4	17214.1	17857.8	17714.5	16782.3	14268.0	13258.9	13177.9	12214.5
50°	16070.1	16053.5	16925.5	18131.8	19126.4	19182.4	16755.3	15009.2	14830.6	13458.2
52.5°	13842.3	13838.2	15270.8	17278.5	19622.6	21283.6	19213.6	16931.8	16632.8	14774.6
55°	10651.1	10728.0	12370.3	14743.4	18717.3	22294.7	21420.6	19066.2	18607.3	16099.2
57.5°	7545.1	7657.2	9280.8	11394.4	15910.3	21696.8	22913.4	21204.7	20710.5	17419.7
60°	4052.8	4152.5	5778.2	8300.8	11836.7	19466.9	23700.3	23060.8	22593.7	18673.7
62.5°	2414.7	2447.9	3120.6	5358.8	8006.0	14872.1	23366.1	24474.8	24090.7	19726.4
65°	1733.7	1739.9	2078.3	3272.2	4860.5	9035.8	21022.0	25151.6	25033.3	20519.5
67.5°	1459.6	1455.4	1596.6	2173.8	3311.6	4526.2	16111.7	24194.5	24696.9	21022.0
70°	1252.0	1258.2	1424.3	1592.5	2489.4	2562.1	8010.2	21065.6	22136.9	21154.9
72.5°	932.2	953.0	1106.6	1451.3	1879.0	1762.7	2765.6	15619.6	17556.7	19931.9
75°	658.2	668.6	778.6	1220.8	1401.5	1283.1	1411.8	8074.5	10557.7	15281.2
77.5°	506.6	525.3	589.7	853.3	1380.7	901.1	863.7	2794.6	4293.7	9231.0
80°	274.1	307.3	425.6	616.6	969.6	637.4	427.7	1112.9	1455.4	4316.5
82.5°	141.2	157.8	296.9	444.3	552.3	556.4	211.8	463.0	600.0	1332.9
85°	56.1	68.5	199.3	245.0	284.4	274.1	95.5	186.9	215.9	369.6
87.5°	12.5	20.8	72.7	56.1	54.0	58.1	22.8	43.6	41.5	43.6
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°
3724.8	0°	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8
3749.7	2.5°	3747.6	3739.3	3716.5	3691.6	3662.5	3645.9	3635.5	3633.4	3618.9	3608.5
3832.7	5°	3809.9	3801.6	3758.0	3706.1	3650.0	3606.4	3564.9	3527.5	3473.6	3463.2
3953.2	7.5°	3934.5	3911.6	3841.1	3770.5	3664.6	3537.9	3384.3	3207.8	3050.0	3002.2
4113.0	10°	4088.1	4057.0	3967.7	3843.1	3608.5	3263.9	2892.2	2547.6	2273.5	2196.7
4302.0	12.5°	4262.5	4235.5	4117.2	3886.7	3373.9	2748.9	2180.1	1752.4	1486.6	1420.2
4503.4	15°	4470.2	4430.7	4266.7	3820.3	2954.5	2088.7	1497.0	1243.7	1148.2	1135.7
4733.8	17.5°	4690.2	4625.9	4399.6	3581.5	2389.8	1484.5	1156.5	1083.8	1042.3	1029.8
4966.4	20°	4891.6	4808.6	4478.5	3220.3	1785.6	1156.5	1036.0	988.3	950.9	936.4
5198.9	22.5°	5093.0	4974.7	4478.5	2728.2	1339.2	1025.7	950.9	907.3	863.7	845.0
5448.1	25°	5302.7	5144.9	4399.6	2180.1	1077.6	940.5	869.9	822.2	784.8	762.0
5684.8	27.5°	5506.2	5288.2	4218.9	1661.0	959.2	865.8	795.2	749.5	714.2	697.6
5942.2	30°	5699.3	5429.4	3965.6	1260.3	882.4	793.1	726.7	687.2	651.9	635.3
6276.5	32.5°	5960.9	5607.9	3695.7	1034.0	816.0	724.6	664.4	627.0	595.9	583.4
6710.4	35°	6324.2	5871.6	3463.2	1015.3	759.9	668.6	608.3	573.0	541.9	531.5
7271.0	37.5°	6839.1	6297.2	3340.7	1139.9	714.2	618.7	562.7	525.3	496.2	487.9
7983.2	40°	7474.5	6874.4	3407.1	1264.4	683.1	575.1	521.1	483.8	458.8	448.5
8801.2	42.5°	8228.2	7586.6	3774.6	1359.9	662.3	537.7	481.7	440.2	423.6	419.4
9729.3	45°	9093.9	8369.3	4337.3	1461.7	629.1	502.5	442.2	411.1	398.6	396.6
10738.3	47.5°	10078.1	9228.9	4989.2	1588.3	595.9	469.2	411.1	390.3	380.0	375.8
11791.0	50°	11053.9	10094.7	5659.8	1658.9	568.9	438.1	386.2	369.6	361.3	359.2
12903.9	52.5°	12075.4	10985.4	6201.7	1592.5	546.1	413.2	365.4	353.0	344.7	342.6
13929.5	55°	13049.2	11705.9	6295.2	1351.6	500.4	388.3	342.6	336.4	326.0	326.0
14969.7	57.5°	13888.0	12067.1	5634.9	992.4	454.7	350.9	319.7	313.5	305.2	303.1
15908.2	60°	14658.3	11963.3	4349.7	668.6	404.9	313.5	290.7	286.5	278.2	267.8
16724.1	62.5°	15092.2	11506.5	2975.3	436.0	355.0	274.1	257.5	255.4	236.7	215.9
17328.3	65°	15256.2	10568.1	1856.2	317.7	296.9	234.6	222.2	218.0	191.0	168.2
17670.9	67.5°	15113.0	9023.4	936.4	251.2	234.6	195.2	182.7	182.7	164.0	143.3
17650.2	70°	14539.9	6764.4	394.5	201.4	180.6	149.5	149.5	157.8	139.1	116.3
16734.5	72.5°	13296.3	4551.1	209.7	153.6	135.0	105.9	122.5	128.7	110.0	87.2
13697.0	75°	10570.2	2775.9	145.3	114.2	85.1	74.7	93.4	97.6	74.7	58.1
9390.9	77.5°	7229.5	1594.6	97.6	72.7	54.0	43.6	64.4	60.2	39.4	27.0
3621.0	80°	3174.6	664.4	56.1	33.2	20.8	16.6	22.8	16.6	12.5	8.3
496.2	82.5°	371.6	155.7	20.8	12.5	8.3	4.2	2.1	0.0	0.0	0.0
151.6	85°	76.8	18.7	10.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
27.0	87.5°	14.5	4.2	2.1	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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180°
3724.8
3618.9
3459.0
2979.4
2167.6
1401.5
1123.2
1023.6
928.1
834.7
753.7
697.6
637.4
583.4
531.5
485.8
446.4
419.4
394.5
375.8
359.2
342.6
323.9
301.1
265.8
211.8
166.1
141.2
114.2
87.2
56.1
29.1
8.3
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