

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: P952510

Luminaire Tested: **GALN-SB6B-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952510
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-SB6B-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 23449 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

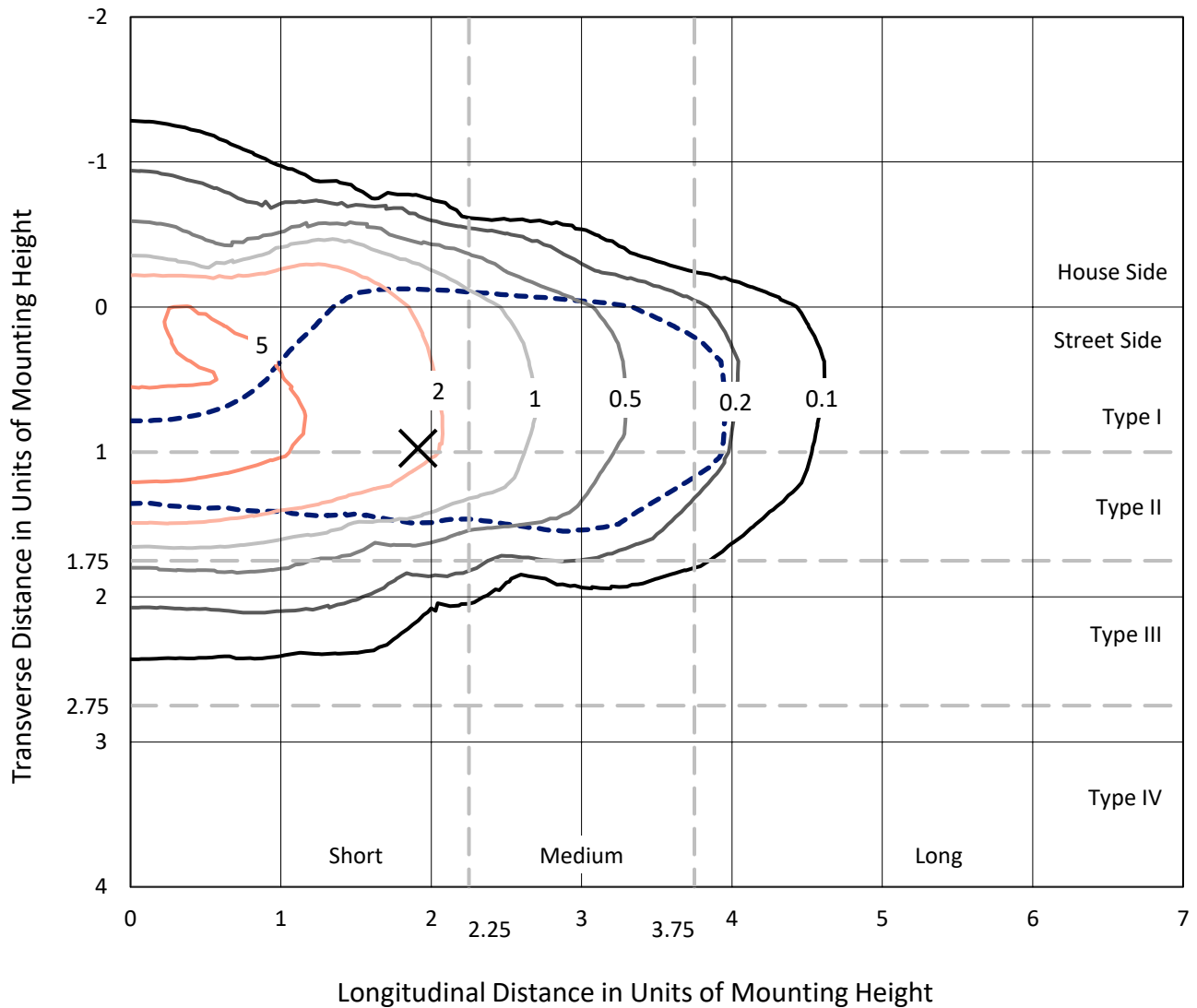
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

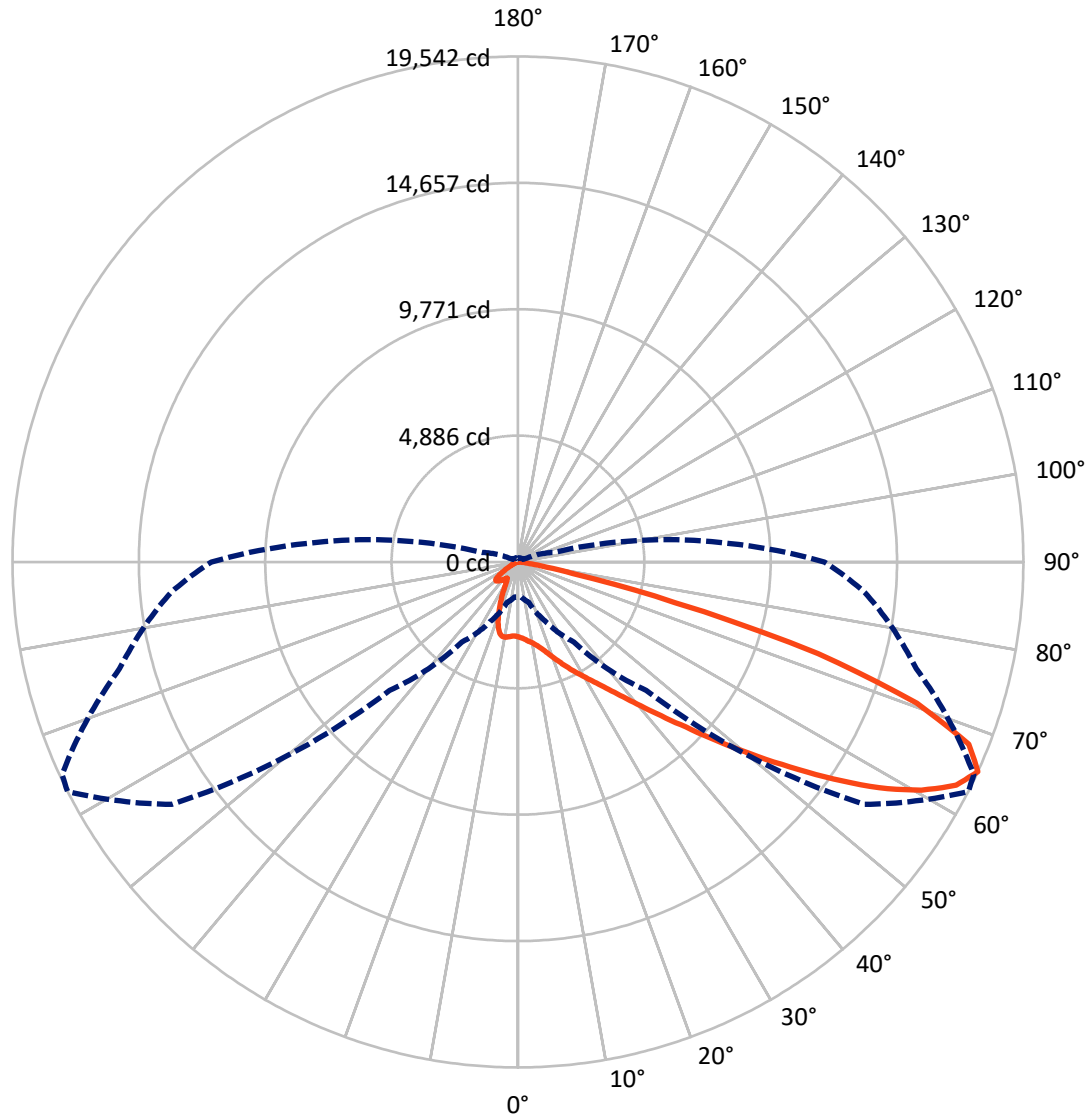
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	3446.8	0.0	3446.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20002.2	0.0	20002.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	23449.0	0.0	23449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.2
10°-20°	756.6	3.2
20°-30°	1317.4	5.6
30°-40°	2374.4	10.1
40°-50°	4709.3	20.1
50°-60°	6414.8	27.4
60°-70°	5120.3	21.8
70°-80°	2317.0	9.9
80°-90°	166.5	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°	23449.0	100.0
0°-180°	23449.0	100.0

Coefficient of Utilization



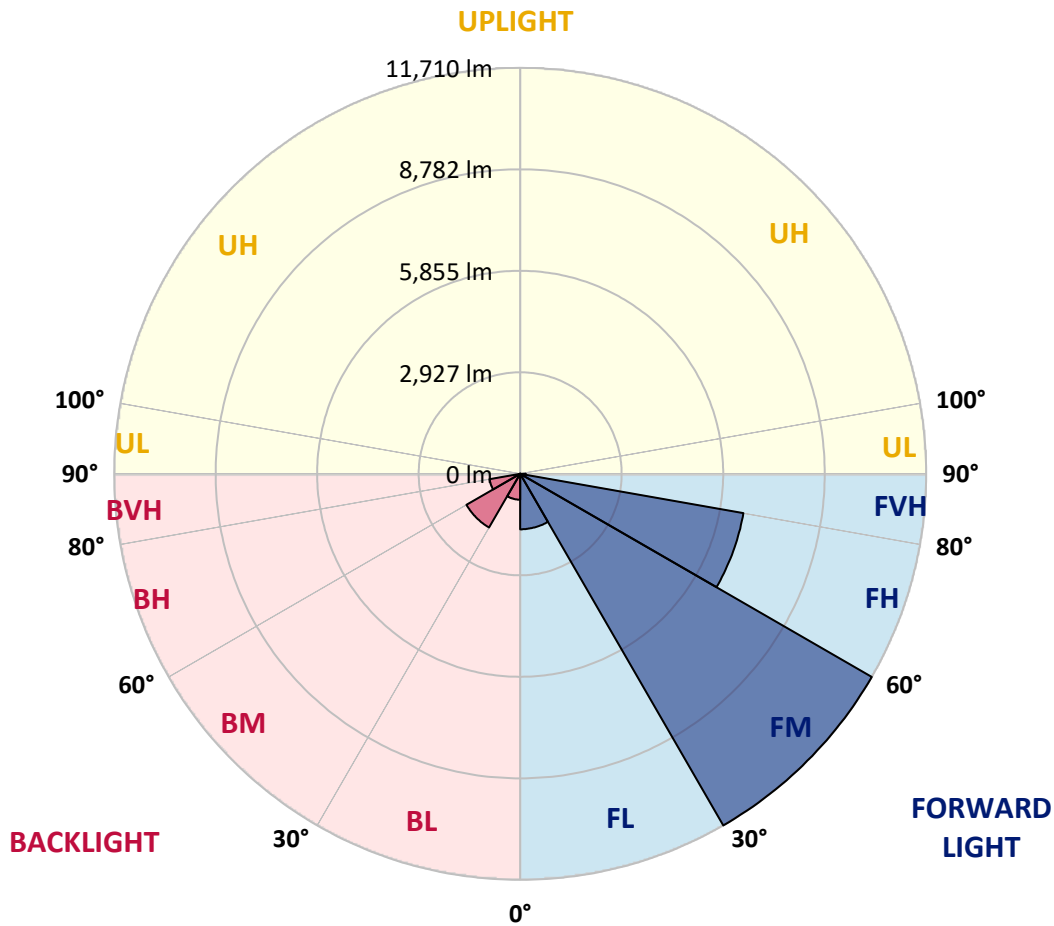
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.7	6.8			
FM (30°-60°)	11709.8	49.9			
FH (60°-80°)	6537.5	27.9			G3/7500
FVH (80°-90°)	154.2	0.7			G2/225
BL (0°-30°)	745.9	3.2	B2/1000		
BM (30°-60°)	1788.7	7.6	B2/2500		
BH (60°-80°)	899.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0
2.5°	2961.8	2953.7	2965.0	2960.2	2957.0	2950.5	2947.3	2944.1	2937.6	2932.8
5°	2969.9	2965.0	2976.3	2986.0	2995.7	3005.4	3010.2	3016.7	3010.2	2997.3
7.5°	2902.1	2898.9	2923.1	2952.1	2995.7	3032.8	3073.1	3095.7	3097.3	3092.5
10°	2897.3	2889.2	2913.4	2948.9	3005.4	3071.5	3142.5	3190.9	3197.3	3218.3
12.5°	2973.1	2965.0	2998.9	3037.6	3095.7	3165.1	3252.2	3319.9	3329.6	3358.6
15°	3100.5	3089.2	3128.0	3178.0	3252.2	3331.2	3423.2	3484.5	3492.5	3528.0
17.5°	3248.9	3237.7	3282.8	3336.1	3416.7	3524.8	3631.3	3699.0	3708.7	3731.3
20°	3439.3	3424.8	3460.3	3508.7	3594.2	3723.2	3850.7	3947.5	3945.8	3945.8
22.5°	3660.3	3637.7	3668.4	3707.1	3787.8	3944.2	4113.6	4228.2	4228.2	4183.0
25°	3897.4	3874.9	3908.7	3944.2	4015.2	4192.7	4391.1	4533.0	4539.5	4462.1
27.5°	4194.3	4165.2	4191.0	4233.0	4274.9	4455.6	4691.1	4855.7	4858.9	4739.5
30°	4765.3	4683.1	4602.4	4557.2	4576.6	4755.7	5007.3	5189.6	5205.7	5041.2
32.5°	5810.7	5794.6	5510.6	5139.6	4946.0	5078.3	5360.6	5580.0	5589.7	5378.4
35°	7435.2	7415.8	6959.3	6252.7	5621.9	5510.6	5789.7	6049.4	6043.0	5804.2
37.5°	9374.2	9356.5	8754.7	7809.4	6788.3	6164.0	6343.0	6615.7	6656.0	6343.0
40°	11030.9	10964.8	10584.1	9672.6	8336.9	7248.0	7130.3	7310.9	7352.9	6981.9
42.5°	12286.0	12229.5	12036.0	11466.5	10211.4	8851.5	8057.8	8127.2	8174.0	7728.8
45°	12936.1	12923.2	13000.6	12947.4	12121.5	10819.6	9383.9	9095.1	9112.9	8556.3
47.5°	13028.1	13021.6	13374.9	13875.0	13763.7	13039.4	11085.8	10301.8	10238.9	9490.4
50°	12486.0	12473.1	13150.7	14087.9	14860.6	14904.2	13018.4	11661.7	11523.0	10456.6
52.5°	10755.1	10751.9	11865.0	13424.9	15246.2	16536.7	14928.4	13155.5	12923.2	11479.4
55°	8275.6	8335.3	9611.3	11455.2	14542.8	17322.4	16643.2	14813.9	14457.3	12508.6
57.5°	5862.3	5949.4	7210.9	8853.1	12361.8	16857.8	17803.1	16475.4	16091.5	13534.6
60°	3148.9	3226.4	4489.5	6449.5	9196.8	15125.2	18414.5	17917.6	17554.7	14509.0
62.5°	1876.1	1901.9	2424.6	4163.6	6220.4	11555.2	18154.8	19016.2	18717.8	15326.8
65°	1347.0	1351.8	1614.8	2542.4	3776.5	7020.6	16333.5	19542.1	19450.1	15943.1
67.5°	1134.1	1130.8	1240.5	1689.0	2573.0	3516.7	12518.3	18798.4	19188.8	16333.5
70°	972.7	977.6	1106.6	1237.3	1934.2	1990.7	6223.7	16367.4	17199.8	16436.7
72.5°	724.3	740.5	859.8	1127.6	1459.9	1369.6	2148.8	12136.0	13641.1	15486.6
75°	511.4	519.4	604.9	948.6	1088.9	996.9	1097.0	6273.7	8203.0	11873.0
77.5°	393.6	408.1	458.1	663.0	1072.8	700.1	671.1	2171.3	3336.1	7172.2
80°	212.9	238.8	330.7	479.1	753.4	495.2	332.3	864.7	1130.8	3353.8
82.5°	109.7	122.6	230.7	345.2	429.1	432.3	164.5	359.7	466.2	1035.7
85°	43.6	53.2	154.9	190.4	221.0	212.9	74.2	145.2	167.8	287.1
87.5°	9.7	16.1	56.5	43.6	41.9	45.2	17.7	33.9	32.3	33.9
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°
2894.0	0°	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0	2894.0
2913.4	2.5°	2911.8	2905.3	2887.6	2868.2	2845.7	2832.7	2824.7	2823.1	2811.8	2803.7
2977.9	5°	2960.2	2953.7	2919.9	2879.5	2836.0	2802.1	2769.8	2740.8	2698.9	2690.8
3071.5	7.5°	3057.0	3039.2	2984.4	2929.5	2847.3	2748.9	2629.5	2492.4	2369.8	2332.7
3195.7	10°	3176.4	3152.2	3082.8	2986.0	2803.7	2535.9	2247.2	1979.4	1766.4	1706.7
3342.5	12.5°	3311.9	3290.9	3198.9	3019.9	2621.4	2135.9	1693.8	1361.5	1155.0	1103.4
3499.0	15°	3473.2	3442.5	3315.1	2968.3	2295.6	1622.9	1163.1	966.3	892.1	882.4
3678.1	17.5°	3644.2	3594.2	3418.3	2782.7	1856.8	1153.4	898.5	842.1	809.8	800.1
3858.7	20°	3800.7	3736.1	3479.6	2502.0	1387.3	898.5	805.0	767.9	738.8	727.5
4039.4	22.5°	3957.1	3865.2	3479.6	2119.7	1040.5	796.9	738.8	705.0	671.1	656.6
4233.0	25°	4120.1	3997.5	3418.3	1693.8	837.2	730.8	675.9	638.8	609.8	592.0
4416.9	27.5°	4278.2	4108.8	3278.0	1290.5	745.3	672.7	617.8	582.4	554.9	542.0
4616.9	30°	4428.2	4218.5	3081.2	979.2	685.6	616.2	564.6	534.0	506.5	493.6
4876.7	32.5°	4631.4	4357.2	2871.5	803.4	634.0	563.0	516.2	487.2	463.0	453.3
5213.8	35°	4913.8	4562.1	2690.8	788.8	590.4	519.4	472.7	445.2	421.0	413.0
5649.4	37.5°	5313.8	4892.8	2595.6	885.6	554.9	480.7	437.2	408.1	385.6	379.1
6202.7	40°	5807.5	5341.2	2647.2	982.4	530.7	446.9	404.9	375.9	356.5	348.4
6838.3	42.5°	6393.0	5894.6	2932.8	1056.6	514.6	417.8	374.3	342.0	329.1	325.9
7559.4	45°	7065.7	6502.7	3369.9	1135.7	488.8	390.4	343.6	319.4	309.7	308.1
8343.4	47.5°	7830.4	7170.6	3876.5	1234.1	463.0	364.6	319.4	303.3	295.2	292.0
9161.3	50°	8588.6	7843.3	4397.5	1288.9	442.0	340.4	300.1	287.1	280.7	279.1
10025.9	52.5°	9382.3	8535.3	4818.6	1237.3	424.3	321.0	283.9	274.2	267.8	266.2
10822.8	55°	10138.9	9095.1	4891.2	1050.2	388.8	301.7	266.2	261.3	253.3	253.3
11631.0	57.5°	10790.6	9375.8	4378.2	771.1	353.3	272.6	248.4	243.6	237.1	235.5
12360.2	60°	11389.1	9295.2	3379.6	519.4	314.6	243.6	225.8	222.6	216.2	208.1
12994.2	62.5°	11726.2	8940.3	2311.7	338.8	275.9	212.9	200.0	198.4	183.9	167.8
13463.6	65°	11853.7	8211.1	1442.2	246.8	230.7	182.3	172.6	169.4	148.4	130.7
13729.8	67.5°	11742.4	7010.9	727.5	195.2	182.3	151.6	142.0	142.0	127.4	111.3
13713.7	70°	11297.1	5255.7	306.5	156.5	140.3	116.1	116.1	122.6	108.1	90.3
13002.3	72.5°	10330.8	3536.1	162.9	119.4	104.9	82.3	95.2	100.0	85.5	67.8
10642.2	75°	8212.7	2156.8	112.9	88.7	66.1	58.1	72.6	75.8	58.1	45.2
7296.4	77.5°	5617.1	1238.9	75.8	56.5	41.9	33.9	50.0	46.8	30.7	21.0
2813.4	80°	2466.6	516.2	43.6	25.8	16.1	12.9	17.7	12.9	9.7	6.5
385.6	82.5°	288.8	121.0	16.1	9.7	6.5	3.2	1.6	0.0	0.0	0.0
117.8	85°	59.7	14.5	8.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0
21.0	87.5°	11.3	3.2	1.6	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>
2894.0
2811.8
2687.6
2314.9
1684.2
1088.9
872.7
795.3
721.1
648.5
585.6
542.0
495.2
453.3
413.0
377.5
346.8
325.9
306.5
292.0
279.1
266.2
251.7
233.9
206.5
164.5
129.1
109.7
88.7
67.8
43.6
22.6
6.5
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