

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: P942026

Luminaire Tested: **GALN-SB5D-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36225 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

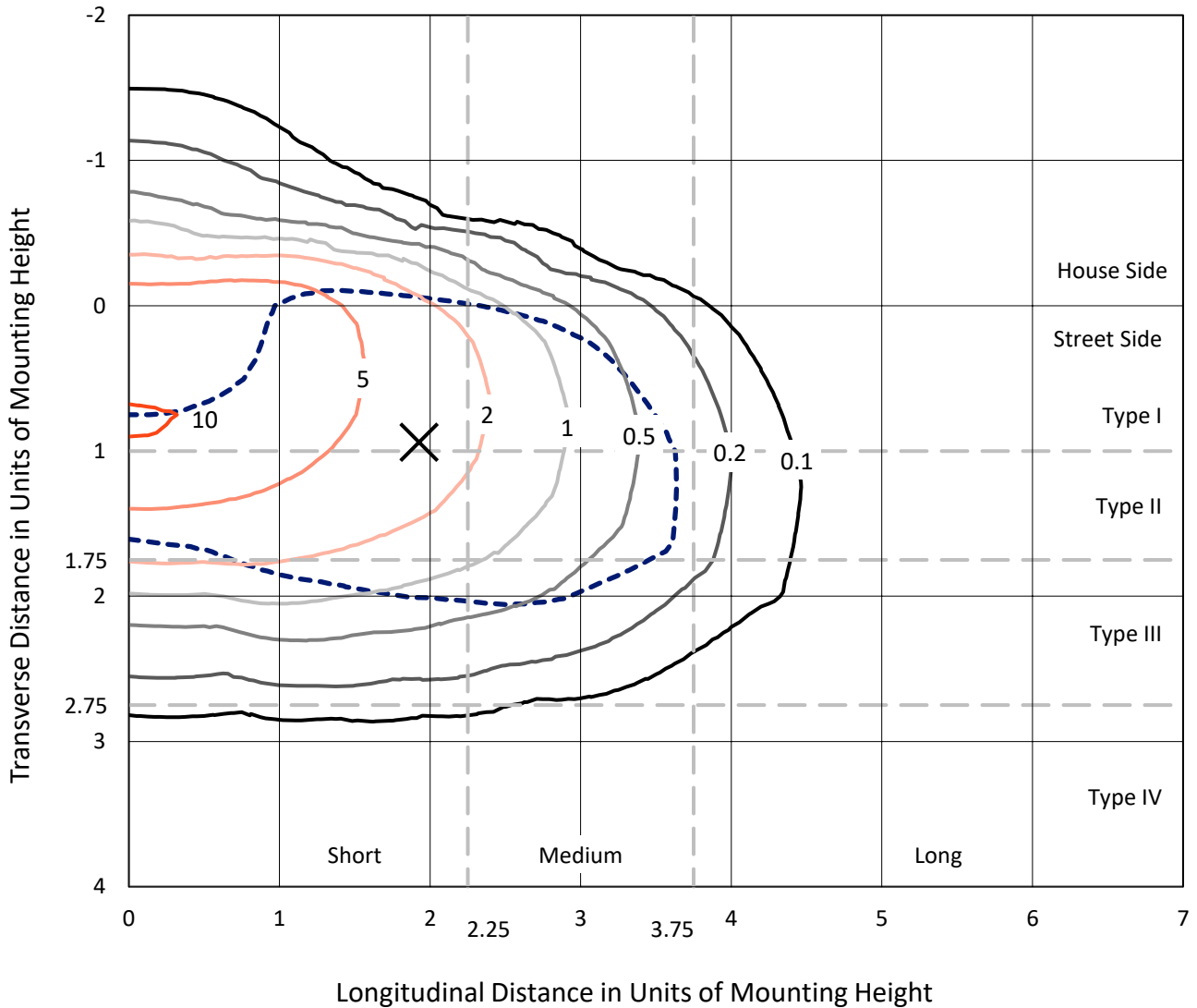
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

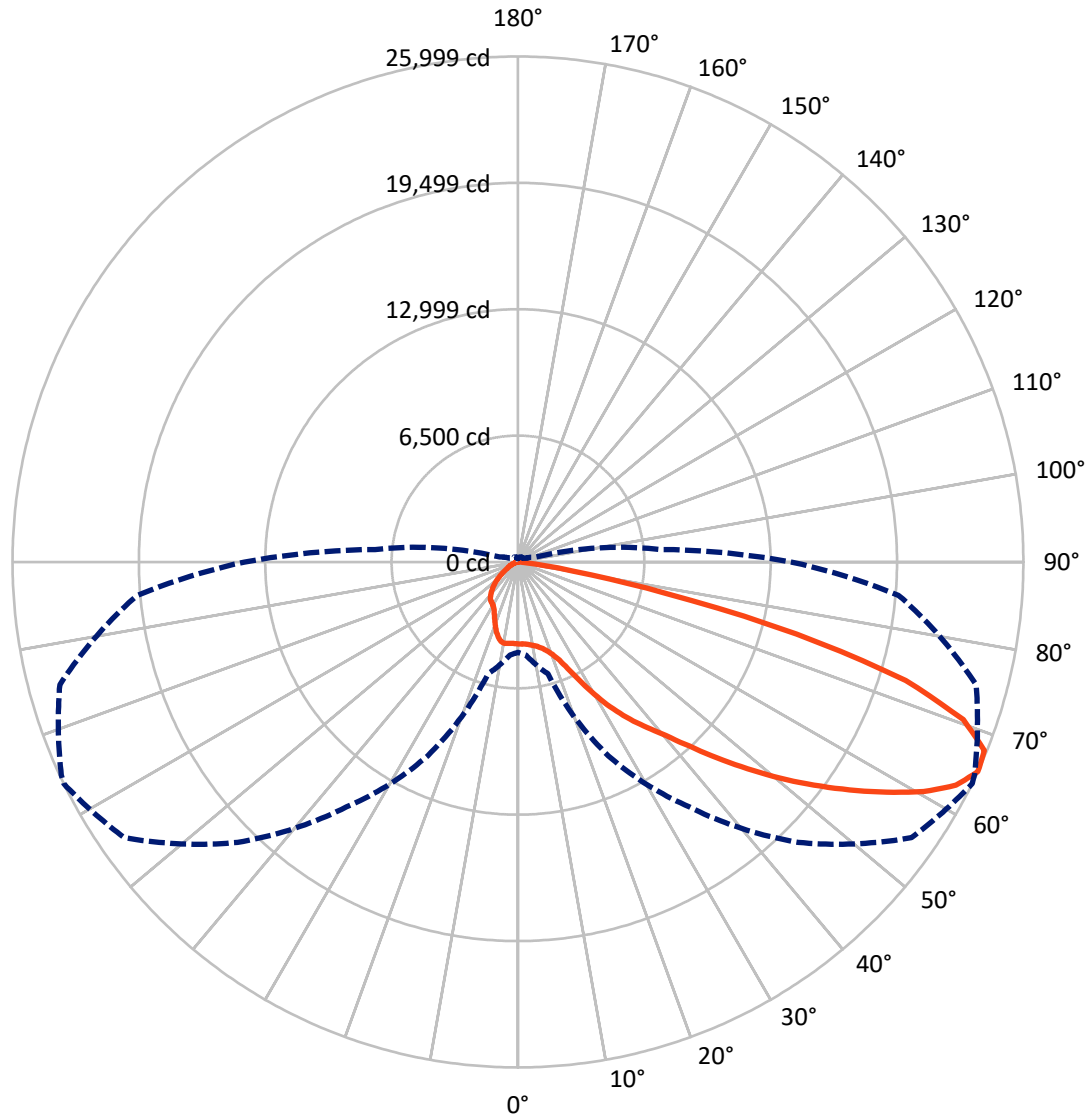
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4844.4	0.0	4844.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	31380.6	0.0	31380.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	36225.0	0.0	36225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.7	1.1
10°-20°	1054.3	2.9
20°-30°	1997.9	5.5
30°-40°	4042.7	11.2
40°-50°	6886.8	19.0
50°-60°	9365.6	25.9
60°-70°	8794.7	24.3
70°-80°	3523.5	9.7
80°-90°	170.7	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°	36225.0	100.0
0°-180°	36225.0	100.0

Coefficient of Utilization



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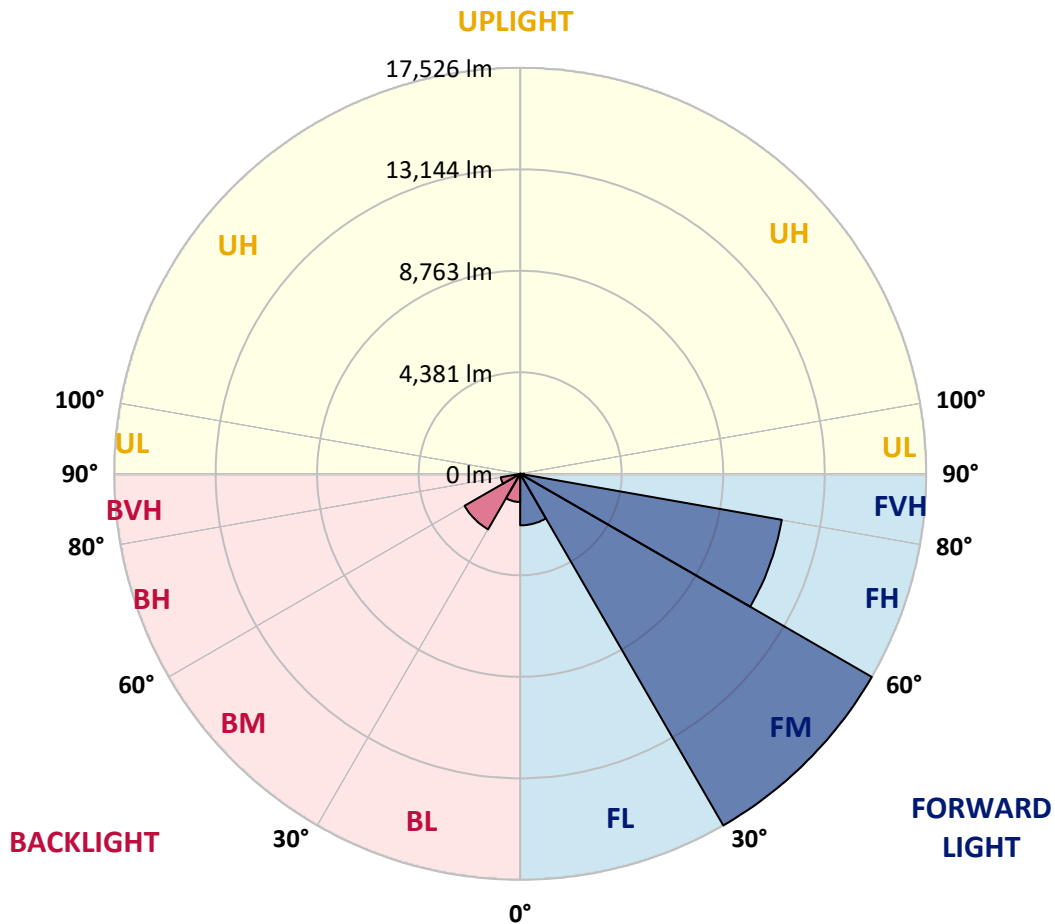
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2224.6	6.1			
FM (30°-60°)	17525.6	48.4			
FH (60°-80°)	11468.0	31.7			G4/12000
FVH (80°-90°)	162.4	0.4			G2/225
BL (0°-30°)	1216.3	3.4	B3/2500		
BM (30°-60°)	2769.5	7.6	B3/5000		
BH (60°-80°)	850.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3
2.5°	4198.8	4227.9	4220.6	4213.3	4210.9	4215.8	4218.2	4215.8	4215.8	4215.8
5°	4118.6	4142.9	4142.9	4159.9	4184.2	4213.3	4235.2	4240.1	4244.9	4252.2
7.5°	3965.6	3985.1	3999.6	4055.5	4116.2	4193.9	4259.5	4293.5	4298.3	4325.1
10°	3861.2	3885.5	3909.8	3968.1	4055.5	4172.1	4283.8	4366.3	4378.5	4441.6
12.5°	3856.4	3880.6	3912.2	3975.4	4077.4	4201.2	4337.2	4456.2	4478.0	4570.3
15°	3907.4	3936.5	3965.6	4043.4	4152.6	4303.2	4448.9	4597.0	4618.9	4750.0
17.5°	4011.8	4050.6	4072.5	4150.2	4266.8	4434.3	4626.2	4796.2	4815.6	4968.6
20°	4218.2	4264.3	4271.6	4334.8	4448.9	4628.6	4856.9	5068.2	5092.4	5267.3
22.5°	4645.6	4711.2	4652.9	4684.5	4786.5	4966.2	5213.9	5481.0	5515.0	5714.1
25°	5398.4	5490.7	5340.1	5286.7	5330.4	5517.4	5828.3	6165.8	6204.7	6364.9
27.5°	6877.3	6758.3	6530.1	6306.7	6175.5	6282.4	6632.1	7049.8	7098.3	7253.8
30°	8502.0	8397.5	8089.1	7593.7	7282.9	7265.9	7588.9	8055.1	8111.0	8259.1
32.5°	10129.0	10029.5	9694.3	9084.8	8545.7	8278.6	8502.0	9019.2	9048.4	9143.1
35°	11729.4	11627.4	11292.2	10668.1	10005.2	9398.1	9354.4	9937.2	9946.9	10046.5
37.5°	13339.4	13254.4	12897.4	12285.5	11632.2	10794.4	10388.9	10806.6	10818.7	10915.8
40°	14488.1	14524.5	14279.2	13805.7	13244.7	12329.2	11549.7	11731.8	11658.9	11821.6
42.5°	15474.0	15546.9	15333.2	15095.2	14769.8	13963.5	12987.3	12955.7	12839.2	12926.6
45°	16326.4	16387.1	16195.3	16139.4	16132.1	15566.3	14558.5	14369.1	14206.4	14189.4
47.5°	16639.7	16756.2	16838.8	17025.8	17390.1	17152.1	16183.1	15889.3	15707.2	15573.6
50°	16758.7	16882.5	17164.2	17708.2	18570.3	18672.3	17800.5	17470.2	17246.8	17003.9
52.5°	16598.4	16819.4	17198.2	18113.7	19364.4	19891.4	19352.2	19063.3	18808.3	18412.4
55°	15653.7	15874.7	16649.4	18108.9	19760.2	20746.2	20819.0	20690.3	20403.8	19779.6
57.5°	13662.4	13990.2	15216.6	17492.1	19752.9	21482.0	22256.7	22348.9	22028.4	21134.7
60°	10903.7	11348.1	12844.0	16124.8	19143.4	21880.2	23517.0	23978.4	23638.4	22470.4
62.5°	7608.3	8123.1	9538.9	13983.0	17749.5	21593.7	24437.4	25289.8	25032.4	23665.1
65°	4640.7	4805.9	5947.2	11003.3	15379.3	20394.0	24721.5	25998.9	25913.9	24396.1
67.5°	3091.4	3229.8	3557.7	7545.2	11938.2	17997.2	24041.6	25875.0	25899.3	24277.1
70°	1862.6	1981.6	2195.3	4388.2	7737.0	14245.2	21936.1	24296.5	24437.4	22686.5
72.5°	767.4	847.5	1041.8	1988.9	4006.9	9041.1	17467.8	20860.3	21188.1	19075.4
75°	434.7	476.0	612.0	998.1	1738.8	4213.3	10580.7	14808.6	15291.9	13147.6
77.5°	289.0	308.4	395.8	646.0	978.7	1437.6	4521.8	7715.2	8638.0	7180.9
80°	194.3	211.3	272.0	432.3	636.3	616.8	1440.1	2858.3	3516.4	2467.3
82.5°	131.1	133.6	194.3	284.1	403.1	298.7	425.0	888.8	1117.1	714.0
85°	75.3	72.9	143.3	165.1	179.7	123.9	128.7	267.1	349.7	301.1
87.5°	9.7	14.6	55.9	43.7	24.3	26.7	26.7	46.1	68.0	72.9
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°
4213.3	0°	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3	4213.3
4218.2	2.5°	4218.2	4215.8	4208.5	4201.2	4184.2	4174.5	4179.3	4174.5	4172.1	4174.5
4249.8	5°	4249.8	4242.5	4223.1	4198.8	4164.8	4123.5	4096.8	4057.9	4021.5	3999.6
4334.8	7.5°	4334.8	4327.5	4300.8	4232.8	4123.5	3951.1	3793.2	3654.8	3550.4	3489.7
4470.8	10°	4470.8	4458.6	4417.3	4266.8	3980.2	3603.8	3290.5	3030.7	2860.7	2780.6
4631.0	12.5°	4631.0	4616.5	4543.6	4235.2	3708.2	3120.5	2688.3	2399.3	2241.5	2171.0
4815.6	15°	4820.5	4801.0	4657.7	4084.6	3312.4	2586.3	2190.5	1974.3	1872.3	1809.2
5051.2	17.5°	5056.0	5022.0	4742.7	3858.8	2882.6	2178.3	1884.5	1721.8	1631.9	1571.2
5359.6	20°	5362.0	5306.1	4810.7	3589.2	2486.7	1920.9	1678.1	1542.1	1474.1	1420.6
5796.7	22.5°	5789.4	5709.3	4893.3	3297.8	2207.5	1743.6	1525.1	1425.5	1369.6	1308.9
6406.2	25°	6318.8	6224.1	4995.3	3028.3	2015.6	1590.6	1413.4	1330.8	1265.2	1194.8
7205.2	27.5°	7059.5	6889.5	5116.7	2807.3	1850.5	1459.5	1311.4	1219.1	1143.8	1085.5
8111.0	30°	7885.1	7605.9	5223.6	2673.7	1699.9	1338.1	1177.8	1085.5	1015.1	973.8
8924.5	32.5°	8667.1	8288.3	5294.0	2615.4	1563.9	1199.6	1032.1	932.5	879.1	867.0
9721.0	35°	9405.3	8905.1	5286.7	2559.6	1442.5	1061.2	888.8	786.8	745.5	752.8
10578.3	37.5°	10255.3	9563.2	5235.7	2472.2	1342.9	934.9	765.0	675.1	638.7	641.1
11620.1	40°	11243.7	10323.3	5204.1	2307.0	1233.6	818.4	663.0	590.1	563.4	553.7
12717.7	42.5°	12297.6	11059.1	5209.0	2120.0	1097.7	714.0	592.5	531.8	507.5	500.3
13939.2	45°	13356.4	11760.9	5216.3	1925.8	954.4	633.8	541.5	490.5	476.0	466.3
15177.8	47.5°	14352.1	12358.3	5080.3	1716.9	813.5	573.1	500.3	466.3	454.1	442.0
16421.1	50°	15279.7	12756.6	4752.5	1474.1	701.8	524.5	468.7	444.4	432.3	420.1
17547.9	52.5°	16001.0	12819.7	4210.9	1223.9	624.1	488.1	449.3	427.4	412.8	400.7
18458.6	55°	16321.5	12423.9	3441.1	990.8	563.4	456.5	429.8	408.0	391.0	378.8
19175.0	57.5°	16239.0	11590.9	2683.4	796.5	505.1	425.0	405.5	391.0	371.6	352.1
19755.4	60°	15833.4	10476.3	2022.9	663.0	451.7	391.0	378.8	366.7	340.0	310.8
19978.8	62.5°	15131.6	9075.1	1442.5	548.8	393.4	352.1	347.3	337.6	298.7	245.3
19648.5	65°	14058.2	7372.7	971.4	456.5	337.6	308.4	310.8	293.8	242.8	182.1
18439.1	67.5°	12489.5	5391.1	621.7	374.0	281.7	257.4	259.8	250.1	206.4	155.4
16146.7	70°	10490.9	3569.8	405.5	284.1	225.8	199.1	213.7	216.1	174.8	126.3
12392.3	72.5°	7690.9	2107.9	284.1	211.3	165.1	138.4	174.8	179.7	140.8	94.7
7455.3	75°	4383.3	1000.5	213.7	153.0	102.0	97.1	136.0	136.0	97.1	63.1
3227.4	77.5°	1840.8	417.7	150.6	99.6	58.3	55.9	92.3	85.0	48.6	29.1
786.8	80°	531.8	187.0	80.1	48.6	24.3	21.9	36.4	26.7	12.1	4.9
298.7	82.5°	208.8	82.6	31.6	19.4	9.7	9.7	4.9	0.0	0.0	0.0
170.0	85°	123.9	34.0	14.6	7.3	2.4	0.0	0.0	0.0	0.0	0.0
36.4	87.5°	31.6	7.3	4.9	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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180°
4213.3
4184.2
4004.5
3492.1
2773.3
2163.7
1811.6
1566.3
1410.9
1299.2
1187.5
1073.4
966.5
874.2
752.8
650.8
551.3
497.8
466.3
442.0
420.1
398.3
376.4
349.7
306.0
240.4
177.3
148.1
121.4
89.9
58.3
29.1
4.9
0.0
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