

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: P950410

Luminaire Tested: **GALN-SB4D-840-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950410
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-SB4D-840-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 900mA 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: 29813 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

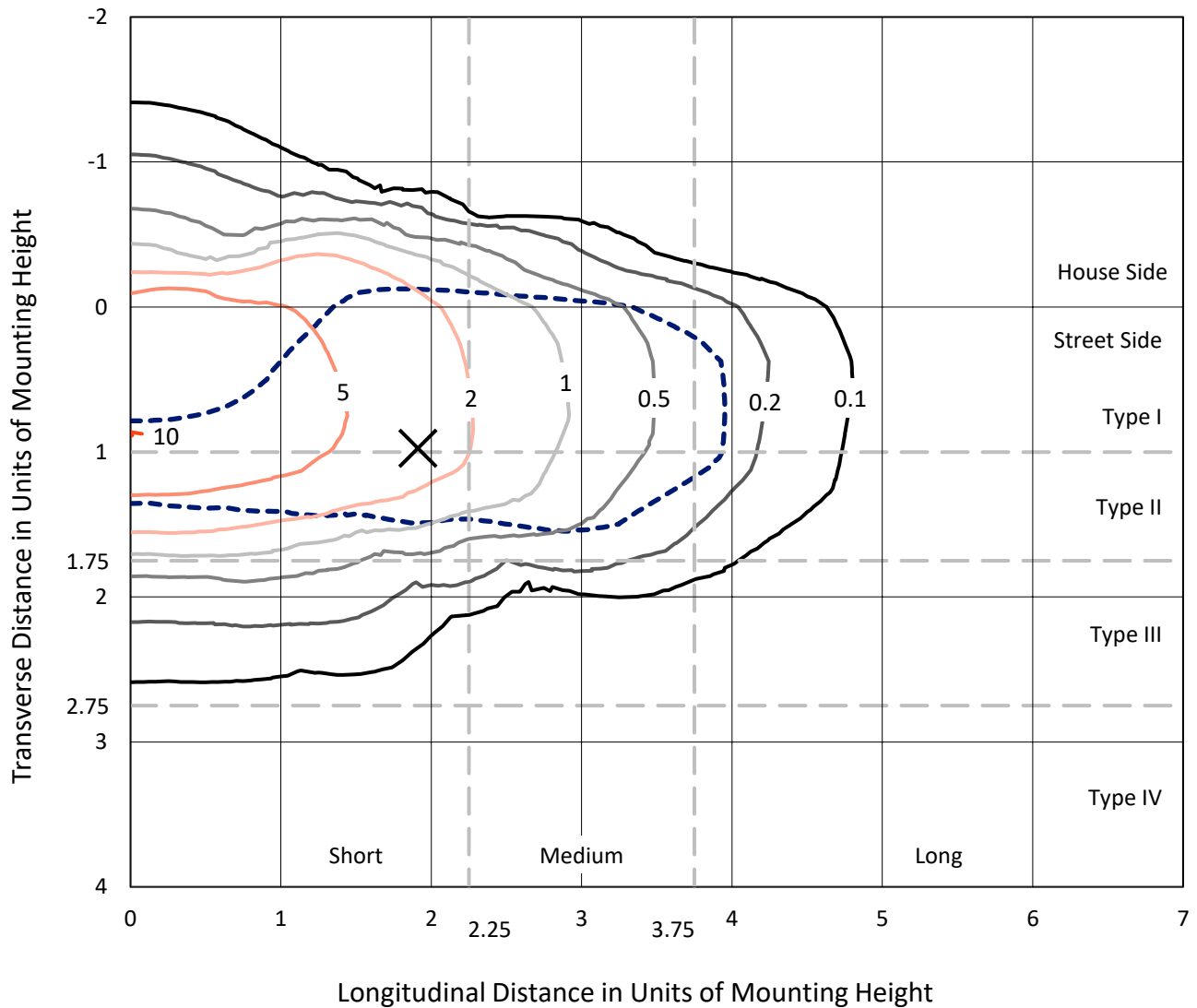
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

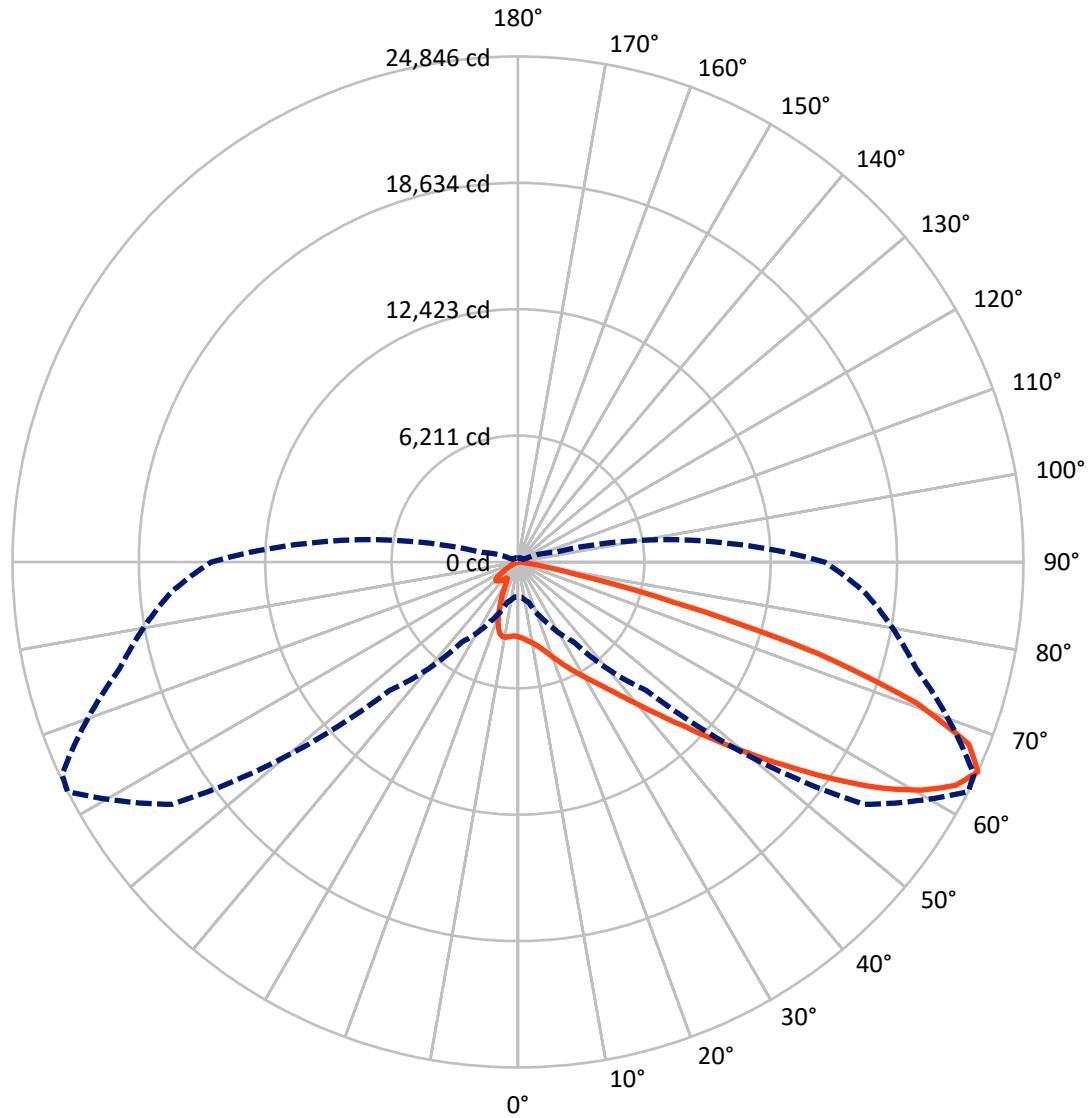
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	4382.3	0.0	4382.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25430.7	0.0	25430.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	29813.0	0.0	29813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	1.2
10°-20°	961.9	3.2
20°-30°	1674.9	5.6
30°-40°	3018.9	10.1
40°-50°	5987.4	20.1
50°-60°	8155.8	27.4
60°-70°	6509.9	21.8
70°-80°	2945.9	9.9
80°-90°	211.8	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°	29813.0	100.0
0°-180°	29813.0	100.0

Coefficient of Utilization



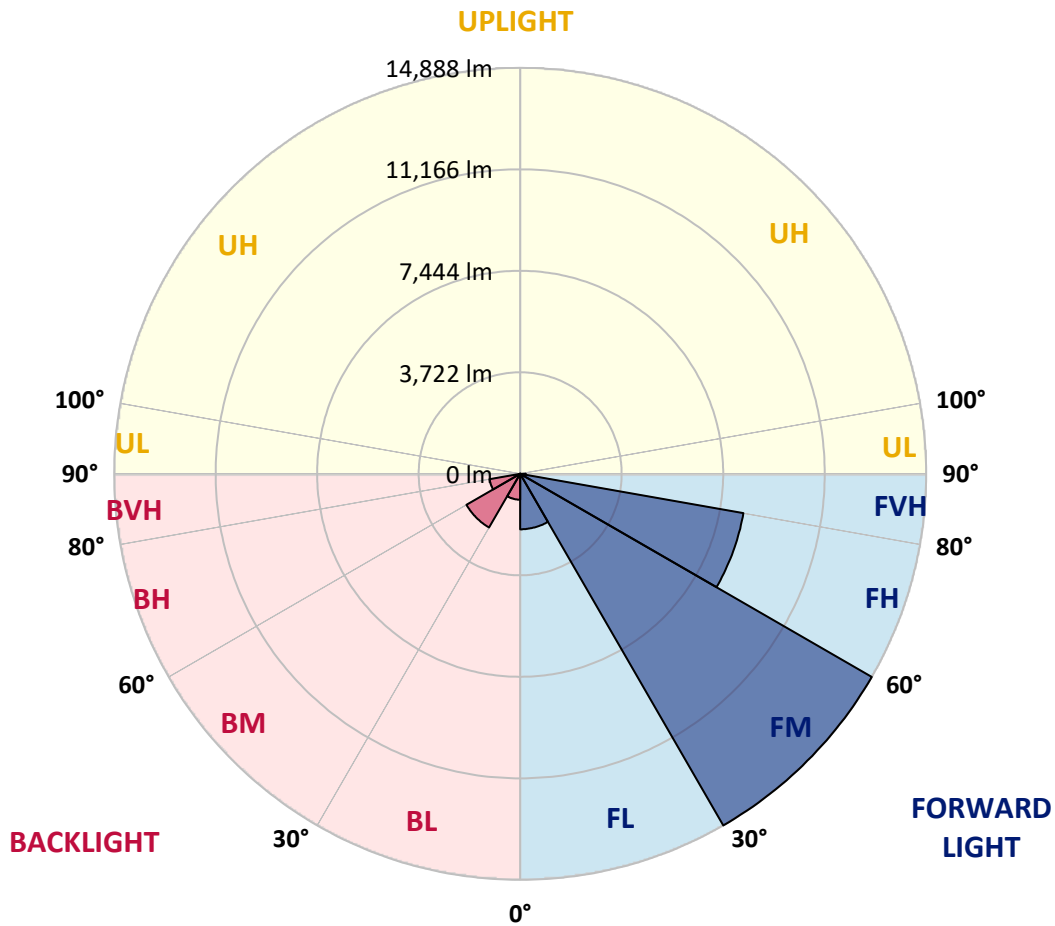
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2035.1	6.8			
FM (30°-60°)	14887.9	49.9			
FH (60°-80°)	8311.7	27.9			G4/12000
FVH (80°-90°)	196.0	0.7			G2/225
BL (0°-30°)	948.4	3.2	B2/1000		
BM (30°-60°)	2274.1	7.6	B2/2500		
BH (60°-80°)	1144.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.7	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°	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5
2.5°	3765.6	3755.4	3769.7	3763.6	3759.5	3751.3	3747.2	3743.1	3734.9	3728.7
5°	3775.9	3769.7	3784.1	3796.4	3808.7	3821.0	3827.2	3835.4	3827.2	3810.8
7.5°	3689.7	3685.6	3716.4	3753.3	3808.7	3855.9	3907.1	3935.9	3937.9	3931.8
10°	3683.6	3673.3	3704.1	3749.2	3821.0	3905.1	3995.3	4056.9	4065.1	4091.7
12.5°	3780.0	3769.7	3812.8	3862.0	3935.9	4024.1	4134.8	4221.0	4233.3	4270.2
15°	3942.0	3927.7	3976.9	4040.5	4134.8	4235.3	4352.2	4430.2	4440.4	4485.5
17.5°	4130.7	4116.3	4173.8	4241.5	4344.0	4481.4	4616.8	4702.9	4715.2	4744.0
20°	4372.7	4354.3	4399.4	4460.9	4569.6	4733.7	4895.7	5018.8	5016.7	5016.7
22.5°	4653.7	4625.0	4664.0	4713.2	4815.7	5014.7	5230.0	5375.7	5375.7	5318.2
25°	4955.2	4926.5	4969.6	5014.7	5104.9	5330.5	5582.8	5763.3	5771.5	5673.1
27.5°	5332.6	5295.7	5328.5	5381.8	5435.1	5664.9	5964.3	6173.5	6177.6	6025.8
30°	6058.6	5954.0	5851.5	5794.1	5818.7	6046.3	6366.3	6598.1	6618.6	6409.4
32.5°	7387.7	7367.2	7006.2	6534.5	6288.4	6456.5	6815.5	7094.4	7106.7	6838.0
35°	9453.0	9428.4	8848.0	7949.7	7147.7	7006.2	7361.0	7691.2	7683.0	7379.5
37.5°	11918.3	11895.8	11130.8	9928.9	8630.6	7836.9	8064.5	8411.1	8462.4	8064.5
40°	14024.7	13940.6	13456.6	12297.8	10599.5	9215.1	9065.4	9295.1	9348.4	8876.7
42.5°	15620.4	15548.6	15302.5	14578.5	12982.8	11253.8	10244.7	10332.9	10392.4	9826.3
45°	16446.9	16430.5	16529.0	16461.3	15411.2	13756.0	11930.6	11563.5	11586.1	10878.5
47.5°	16563.8	16555.6	17004.8	17640.6	17499.1	16578.2	14094.4	13097.7	13017.7	12066.0
50°	15874.7	15858.3	16719.7	17911.4	18893.8	18949.2	16551.5	14826.7	14650.3	13294.6
52.5°	13674.0	13669.9	15085.1	17068.4	19384.0	21024.8	18979.9	16725.9	16430.5	14594.9
55°	10521.6	10597.5	12219.8	14564.1	18489.7	22023.6	21160.1	18834.3	18381.0	15903.4
57.5°	7453.3	7564.1	9168.0	11255.9	15716.8	21432.9	22634.8	20946.8	20458.7	17207.9
60°	4003.5	4102.0	5707.9	8199.9	11692.7	19230.1	23412.1	22780.4	22318.9	18446.7
62.5°	2385.3	2418.1	3082.6	5293.6	7908.6	14691.3	23081.9	24177.1	23797.7	19486.5
65°	1712.6	1718.7	2053.0	3232.4	4801.4	8925.9	20766.3	24845.8	24728.9	20270.0
67.5°	1441.9	1437.7	1577.2	2147.4	3271.3	4471.2	15915.7	23900.3	24396.6	20766.3
70°	1236.8	1242.9	1407.0	1573.1	2459.1	2530.9	7912.7	20809.4	21867.7	20897.6
72.5°	920.9	941.4	1093.2	1433.6	1856.2	1741.3	2731.9	15429.6	17343.2	19689.6
75°	650.2	660.4	769.1	1206.0	1384.4	1267.5	1394.7	7976.3	10429.3	15095.3
77.5°	500.4	518.9	582.5	843.0	1363.9	890.1	853.2	2760.6	4241.5	9118.7
80°	270.7	303.5	420.5	609.1	957.8	629.7	422.5	1099.3	1437.7	4264.0
82.5°	139.5	155.9	293.3	438.9	545.6	549.7	209.2	457.4	592.7	1316.7
85°	55.4	67.7	196.9	242.0	281.0	270.7	94.3	184.6	213.3	365.1
87.5°	12.3	20.5	71.8	55.4	53.3	57.4	22.6	43.1	41.0	43.1
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°
3679.5	0°	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5	3679.5
3704.1	2.5°	3702.0	3693.8	3671.3	3646.7	3618.0	3601.5	3591.3	3589.2	3574.9	3564.6
3786.1	5°	3763.6	3755.4	3712.3	3661.0	3605.7	3562.6	3521.6	3484.6	3431.3	3421.1
3905.1	7.5°	3886.6	3864.1	3794.3	3724.6	3620.0	3494.9	3343.1	3168.8	3012.9	2965.7
4063.0	10°	4038.4	4007.6	3919.5	3796.4	3564.6	3224.2	2857.0	2516.6	2245.8	2170.0
4249.7	12.5°	4210.7	4184.0	4067.1	3839.5	3332.9	2715.5	2153.5	1731.0	1468.5	1402.9
4448.6	15°	4415.8	4376.8	4214.8	3773.8	2918.6	2063.3	1478.8	1228.5	1134.2	1121.9
4676.3	17.5°	4633.2	4569.6	4346.1	3538.0	2360.7	1466.5	1142.4	1070.6	1029.6	1017.3
4906.0	20°	4832.1	4750.1	4424.0	3181.1	1763.9	1142.4	1023.4	976.3	939.4	925.0
5135.7	22.5°	5031.1	4914.2	4424.0	2695.0	1322.9	1013.2	939.4	896.3	853.2	834.8
5381.8	25°	5238.2	5082.4	4346.1	2153.5	1064.5	929.1	859.4	812.2	775.3	752.7
5615.6	27.5°	5439.2	5223.9	4167.6	1640.8	947.6	855.3	785.5	740.4	705.5	689.1
5870.0	30°	5630.0	5363.4	3917.4	1245.0	871.7	783.5	717.8	678.9	644.0	627.6
6200.2	32.5°	5888.4	5539.7	3650.8	1021.4	806.0	715.8	656.3	619.4	588.6	576.3
6628.8	35°	6247.3	5800.2	3421.1	1002.9	750.7	660.4	600.9	566.1	535.3	525.1
7182.6	37.5°	6756.0	6220.7	3300.1	1126.0	705.5	611.2	555.8	518.9	490.2	482.0
7886.1	40°	7383.6	6790.8	3365.7	1249.1	674.8	568.1	514.8	477.9	453.3	443.0
8694.2	42.5°	8128.1	7494.3	3728.7	1343.4	654.3	531.2	475.8	434.8	418.4	414.3
9611.0	45°	8983.4	8267.6	4284.5	1443.9	621.5	496.3	436.9	406.1	393.8	391.7
10607.8	47.5°	9955.5	9116.7	4928.5	1569.0	588.6	463.5	406.1	385.6	375.3	371.2
11647.6	50°	10919.5	9971.9	5591.0	1638.7	562.0	432.8	381.5	365.1	356.9	354.8
12746.9	52.5°	11928.6	10851.8	6126.3	1573.1	539.4	408.1	361.0	348.7	340.5	338.4
13760.1	55°	12890.5	11563.5	6218.6	1335.2	494.3	383.5	338.4	332.3	322.0	322.0
14787.7	57.5°	13719.1	11920.4	5566.4	980.4	449.2	346.6	315.9	309.7	301.5	299.4
15714.7	60°	14480.0	11817.8	4296.8	660.4	399.9	309.7	287.1	283.0	274.8	264.6
16520.8	62.5°	14908.7	11366.6	2939.1	430.7	350.7	270.7	254.3	252.3	233.8	213.3
17117.6	65°	15070.7	10439.6	1833.6	313.8	293.3	231.8	219.5	215.4	188.7	166.1
17456.0	67.5°	14929.2	8913.6	925.0	248.2	231.8	192.8	180.5	180.5	162.0	141.5
17435.5	70°	14363.1	6682.1	389.7	198.9	178.4	147.7	147.7	155.9	137.4	114.9
16531.0	72.5°	13134.6	4495.8	207.2	151.8	133.3	104.6	121.0	127.2	108.7	86.1
13530.4	75°	10441.6	2742.2	143.6	112.8	84.1	73.8	92.3	96.4	73.8	57.4
9276.7	77.5°	7141.6	1575.2	96.4	71.8	53.3	43.1	63.6	59.5	39.0	26.7
3576.9	80°	3136.0	656.3	55.4	32.8	20.5	16.4	22.6	16.4	12.3	8.2
490.2	82.5°	367.1	153.8	20.5	12.3	8.2	4.1	2.1	0.0	0.0	0.0
149.7	85°	75.9	18.5	10.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0
26.7	87.5°	14.4	4.1	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°
3679.5
3574.9
3417.0
2943.2
2141.2
1384.4
1109.6
1011.1
916.8
824.5
744.5
689.1
629.7
576.3
525.1
479.9
441.0
414.3
389.7
371.2
354.8
338.4
320.0
297.4
262.5
209.2
164.1
139.5
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86.1
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