

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: P942526

Luminaire Tested: **GALN-SB6C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942526
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-SB6C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 30972 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

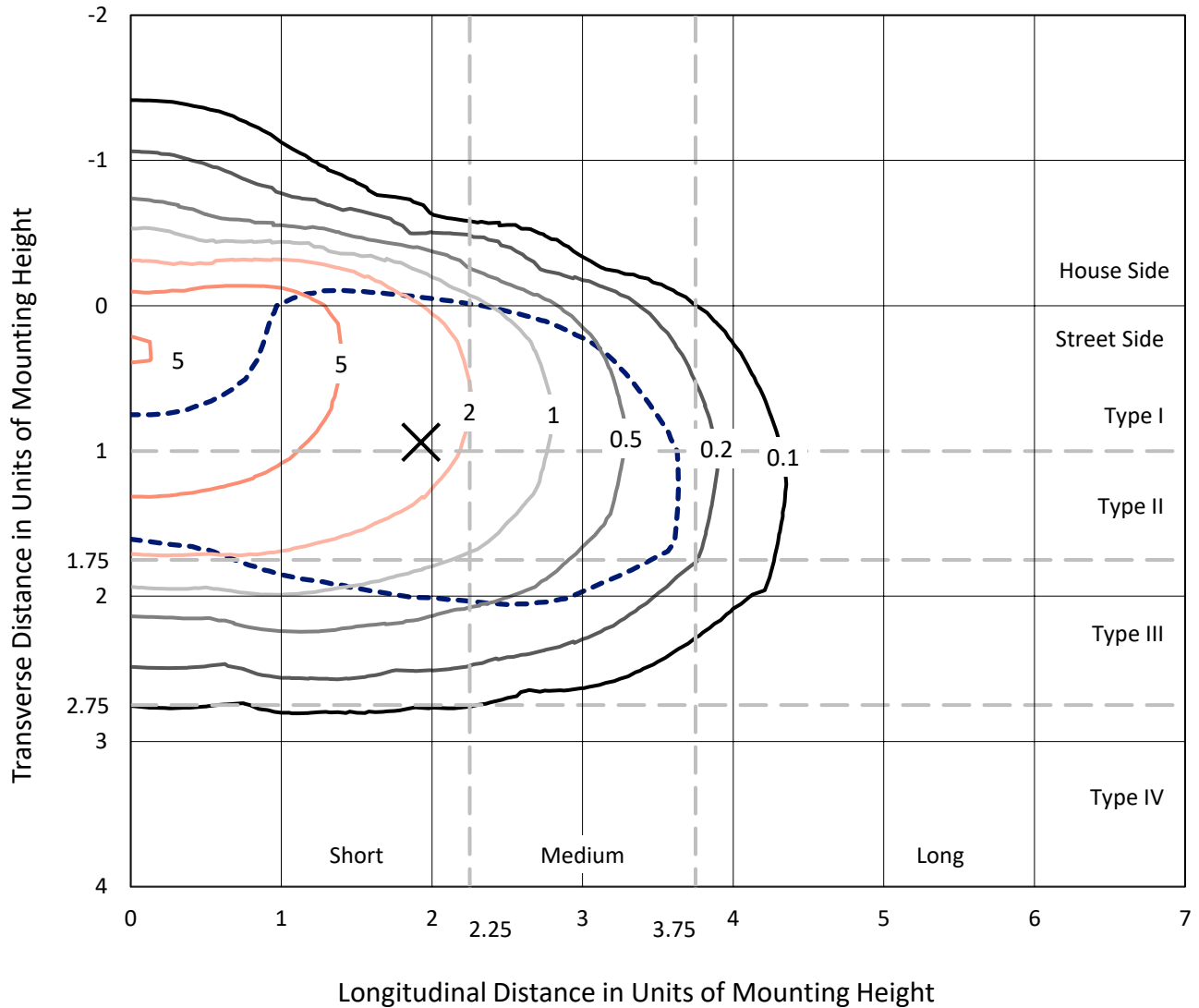
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

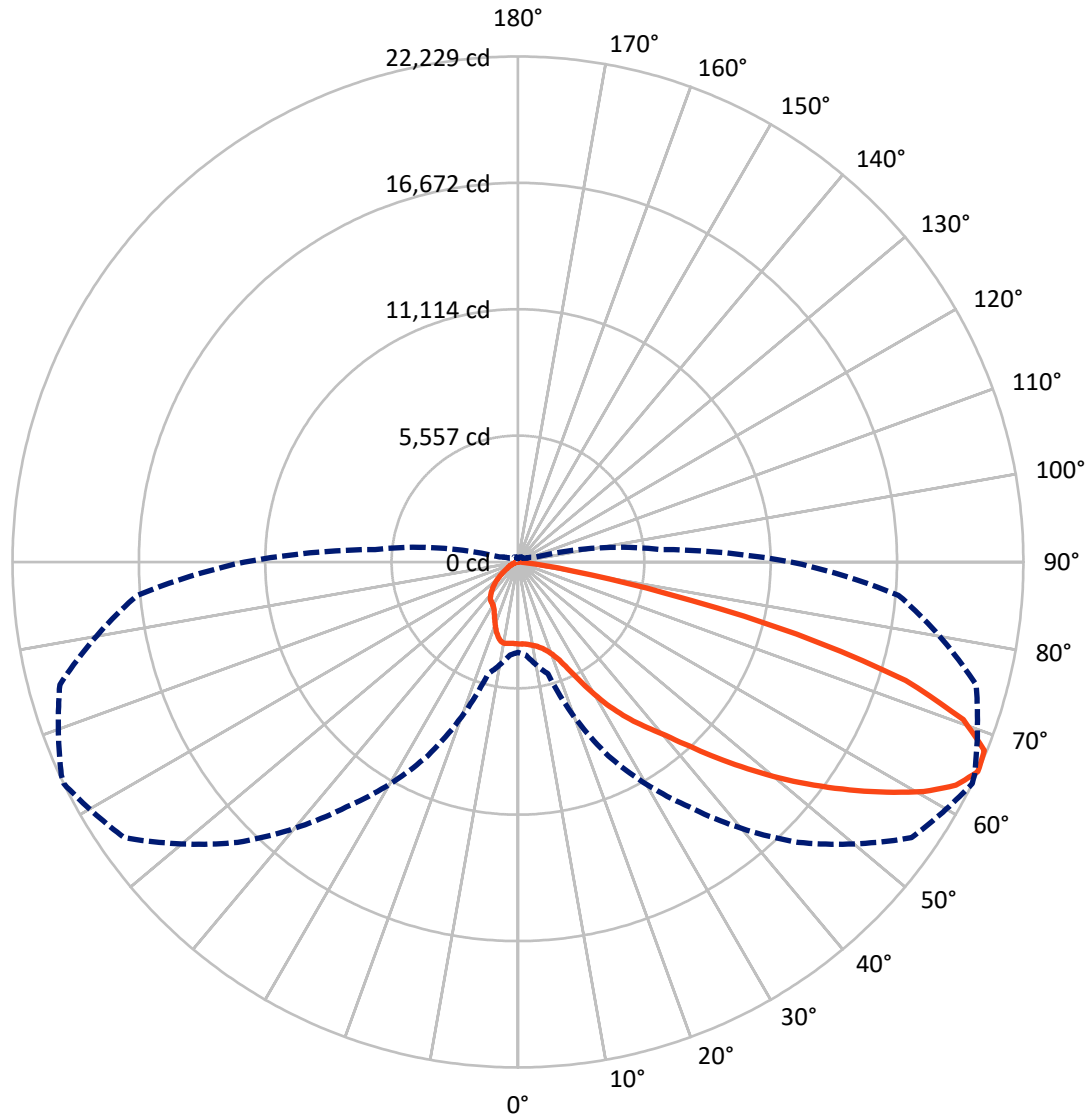
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4141.9	0.0	4141.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26830.1	0.0	26830.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	30972.0	0.0	30972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.4	1.1
10°-20°	901.4	2.9
20°-30°	1708.1	5.5
30°-40°	3456.5	11.2
40°-50°	5888.2	19.0
50°-60°	8007.5	25.9
60°-70°	7519.4	24.3
70°-80°	3012.6	9.7
80°-90°	146.0	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°	30972.0	100.0
0°-180°	30972.0	100.0

Coefficient of Utilization



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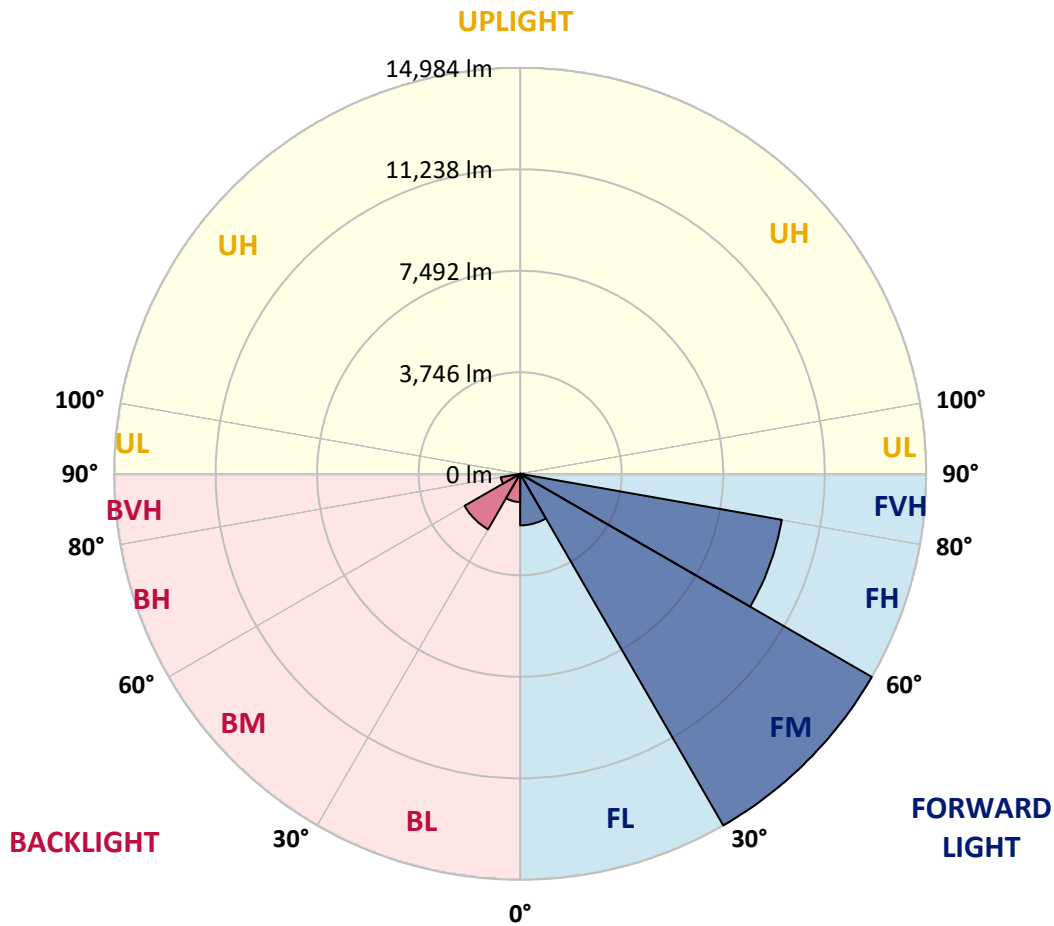
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.0	6.1			
FM (30°-60°)	14984.2	48.4			
FH (60°-80°)	9805.0	31.7			G4/12000
FVH (80°-90°)	138.8	0.4			G2/225
BL (0°-30°)	1039.9	3.4	B3/2500		
BM (30°-60°)	2367.9	7.6	B2/2500		
BH (60°-80°)	727.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.1	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°	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4
2.5°	3589.9	3614.8	3608.6	3602.4	3600.3	3604.4	3606.5	3604.4	3604.4	3604.4
5°	3521.4	3542.2	3542.2	3556.7	3577.4	3602.4	3621.1	3625.2	3629.4	3635.6
7.5°	3390.6	3407.2	3419.7	3467.4	3519.3	3585.8	3641.8	3670.9	3675.0	3697.9
10°	3301.3	3322.1	3342.8	3392.7	3467.4	3567.1	3662.6	3733.2	3743.6	3797.5
12.5°	3297.2	3317.9	3344.9	3398.9	3486.1	3592.0	3708.3	3810.0	3828.7	3907.6
15°	3340.8	3365.7	3390.6	3457.0	3550.5	3679.2	3803.8	3930.4	3949.1	4061.2
17.5°	3430.0	3463.3	3481.9	3548.4	3648.0	3791.3	3955.3	4100.7	4117.3	4248.1
20°	3606.5	3646.0	3652.2	3706.2	3803.8	3957.4	4152.6	4333.2	4354.0	4503.5
22.5°	3971.9	4028.0	3978.2	4005.2	4092.4	4246.0	4457.8	4686.2	4715.3	4885.5
25°	4615.6	4694.5	4565.8	4520.1	4557.5	4717.3	4983.1	5271.7	5304.9	5442.0
27.5°	5880.1	5778.3	5583.1	5392.1	5280.0	5371.4	5670.4	6027.5	6069.0	6201.9
30°	7269.1	7179.8	6916.1	6492.6	6226.8	6212.3	6488.4	6887.1	6934.8	7061.5
32.5°	8660.2	8575.1	8288.6	7767.4	7306.5	7078.1	7269.1	7711.3	7736.3	7817.2
35°	10028.5	9941.3	9654.8	9121.1	8554.3	8035.2	7997.9	8496.2	8504.5	8589.6
37.5°	11405.1	11332.4	11027.2	10504.0	9945.4	9229.1	8882.4	9239.5	9249.9	9332.9
40°	12387.2	12418.3	12208.6	11803.7	11324.1	10541.3	9874.8	10030.6	9968.3	10107.4
42.5°	13230.1	13292.4	13109.7	12906.2	12628.0	11938.7	11104.0	11077.0	10977.4	11052.1
45°	13958.9	14010.8	13846.8	13799.0	13792.8	13309.0	12447.4	12285.4	12146.3	12131.8
47.5°	14226.7	14326.4	14397.0	14556.9	14868.3	14664.8	13836.4	13585.2	13429.5	13315.3
50°	14328.5	14434.4	14675.2	15140.3	15877.4	15964.6	15219.2	14936.8	14745.8	14538.2
52.5°	14191.5	14380.4	14704.3	15487.1	16556.3	17006.9	16546.0	16298.9	16080.9	15742.4
55°	13383.8	13572.7	14235.1	15482.9	16894.8	17737.8	17800.0	17690.0	17445.0	16911.4
57.5°	11681.2	11961.5	13010.0	14955.5	16888.6	18366.9	19029.2	19108.1	18834.0	18070.0
60°	9322.5	9702.5	10981.5	13786.6	16367.4	18707.4	20106.8	20501.3	20210.6	19211.9
62.5°	6505.0	6945.2	8155.7	11955.3	15175.6	18462.4	20893.7	21622.5	21402.4	20233.5
65°	3967.8	4109.0	5084.8	9407.7	13149.2	17436.7	21136.6	22228.8	22156.1	20858.4
67.5°	2643.1	2761.5	3041.8	6451.0	10207.0	15387.4	20555.3	22122.9	22143.6	20756.7
70°	1592.5	1694.3	1877.0	3751.9	6615.1	12179.5	18755.1	20773.3	20893.7	19396.7
72.5°	656.1	724.6	890.7	1700.5	3425.9	7730.0	14934.8	17835.3	18115.6	16309.3
75°	371.7	407.0	523.2	853.4	1486.6	3602.4	9046.4	12661.2	13074.4	11241.0
77.5°	247.1	263.7	338.4	552.3	836.7	1229.2	3866.1	6596.4	7385.4	6139.6
80°	166.1	180.6	232.5	369.6	544.0	527.4	1231.2	2443.8	3006.5	2109.5
82.5°	112.1	114.2	166.1	242.9	344.7	255.4	363.4	759.9	955.1	610.4
85°	64.4	62.3	122.5	141.2	153.6	105.9	110.0	228.4	299.0	257.5
87.5°	8.3	12.5	47.8	37.4	20.8	22.8	22.8	39.4	58.1	62.3
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°
3602.4	0°	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4
3606.5	2.5°	3606.5	3604.4	3598.2	3592.0	3577.4	3569.1	3573.3	3569.1	3567.1	3569.1
3633.5	5°	3633.5	3627.3	3610.7	3589.9	3560.8	3525.5	3502.7	3469.5	3438.3	3419.7
3706.2	7.5°	3706.2	3700.0	3677.1	3619.0	3525.5	3378.1	3243.2	3124.8	3035.5	2983.6
3822.5	10°	3822.5	3812.1	3776.8	3648.0	3403.0	3081.2	2813.4	2591.2	2445.9	2377.4
3959.5	12.5°	3959.5	3947.0	3884.7	3621.1	3170.5	2668.0	2298.5	2051.4	1916.4	1856.2
4117.3	15°	4121.4	4104.8	3982.3	3492.3	2832.1	2211.3	1872.8	1688.0	1600.8	1546.8
4318.7	17.5°	4322.8	4293.8	4055.0	3299.2	2464.6	1862.4	1611.2	1472.1	1395.3	1343.4
4582.4	20°	4584.5	4536.7	4113.1	3068.8	2126.1	1642.3	1434.7	1318.4	1260.3	1214.6
4956.1	22.5°	4949.9	4881.4	4183.7	2819.6	1887.3	1490.8	1303.9	1218.8	1171.0	1119.1
5477.3	25°	5402.5	5321.5	4270.9	2589.1	1723.3	1360.0	1208.4	1137.8	1081.7	1021.5
6160.4	27.5°	6035.8	5890.4	4374.7	2400.2	1582.1	1247.9	1121.2	1042.3	977.9	928.1
6934.8	30°	6741.7	6502.9	4466.1	2286.0	1453.4	1144.0	1007.0	928.1	867.9	832.6
7630.4	32.5°	7410.3	7086.4	4526.3	2236.2	1337.1	1025.7	882.4	797.3	751.6	741.2
8311.4	35°	8041.5	7613.8	4520.1	2188.4	1233.3	907.3	759.9	672.7	637.4	643.7
9044.3	37.5°	8768.2	8176.4	4476.5	2113.7	1148.2	799.4	654.0	577.2	546.1	548.1
9935.1	40°	9613.2	8826.3	4449.5	1972.5	1054.8	699.7	566.8	504.5	481.7	473.4
10873.5	42.5°	10514.3	9455.4	4453.6	1812.6	938.5	610.4	506.6	454.7	433.9	427.7
11917.9	45°	11419.6	10055.5	4459.9	1646.5	816.0	541.9	463.0	419.4	407.0	398.6
12976.8	47.5°	12270.9	10566.2	4343.6	1467.9	695.6	490.0	427.7	398.6	388.3	377.9
14039.9	50°	13064.0	10906.8	4063.3	1260.3	600.0	448.5	400.7	380.0	369.6	359.2
15003.3	52.5°	13680.7	10960.7	3600.3	1046.5	533.6	417.3	384.1	365.4	353.0	342.6
15781.9	55°	13954.8	10622.3	2942.1	847.1	481.7	390.3	367.5	348.8	334.3	323.9
16394.4	57.5°	13884.2	9910.1	2294.3	681.0	431.9	363.4	346.7	334.3	317.7	301.1
16890.6	60°	13537.4	8957.1	1729.6	566.8	386.2	334.3	323.9	313.5	290.7	265.8
17081.6	62.5°	12937.4	7759.1	1233.3	469.2	336.4	301.1	296.9	288.6	255.4	209.7
16799.3	65°	12019.6	6303.6	830.5	390.3	288.6	263.7	265.8	251.2	207.6	155.7
15765.3	67.5°	10678.4	4609.4	531.5	319.7	240.8	220.1	222.2	213.9	176.5	132.9
13805.3	70°	8969.6	3052.1	346.7	242.9	193.1	170.3	182.7	184.8	149.5	108.0
10595.3	72.5°	6575.6	1802.2	242.9	180.6	141.2	118.3	149.5	153.6	120.4	81.0
6374.2	75°	3747.7	855.4	182.7	130.8	87.2	83.1	116.3	116.3	83.1	54.0
2759.4	77.5°	1573.8	357.1	128.7	85.1	49.8	47.8	78.9	72.7	41.5	24.9
672.7	80°	454.7	159.9	68.5	41.5	20.8	18.7	31.1	22.8	10.4	4.2
255.4	82.5°	178.6	70.6	27.0	16.6	8.3	8.3	4.2	0.0	0.0	0.0
145.3	85°	105.9	29.1	12.5	6.2	2.1	0.0	0.0	0.0	0.0	0.0
31.1	87.5°	27.0	6.2	4.2	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°
3602.4
3577.4
3423.8
2985.7
2371.1
1850.0
1548.9
1339.2
1206.3
1110.8
1015.3
917.7
826.4
747.5
643.7
556.4
471.3
425.6
398.6
377.9
359.2
340.5
321.8
299.0
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151.6
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