

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: P955345

Luminaire Tested: **GALN-SB8B-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955345
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-SB8B-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 30260 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

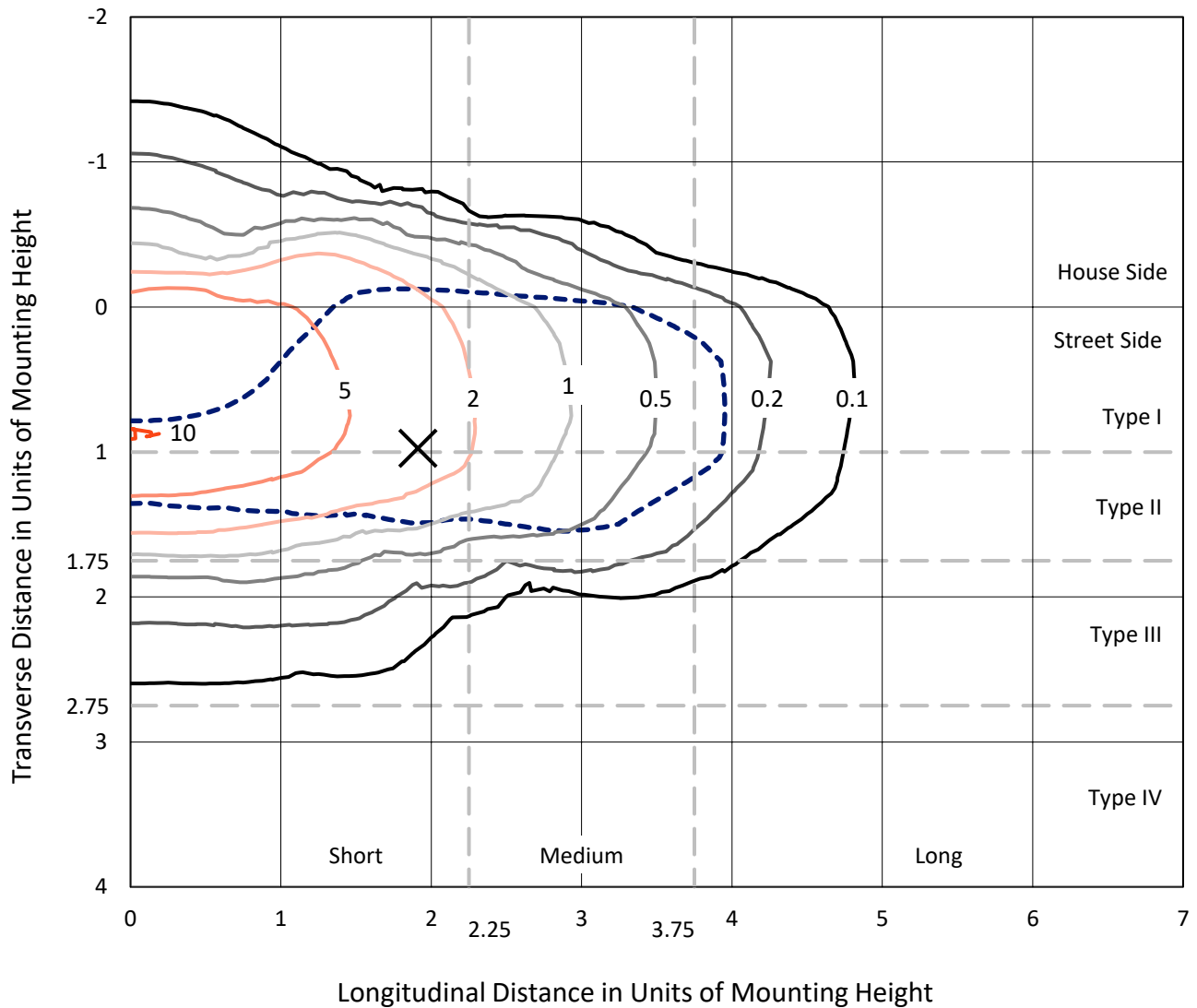
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955345
 CATALOG NUMBER: GALN-SB8B-827-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

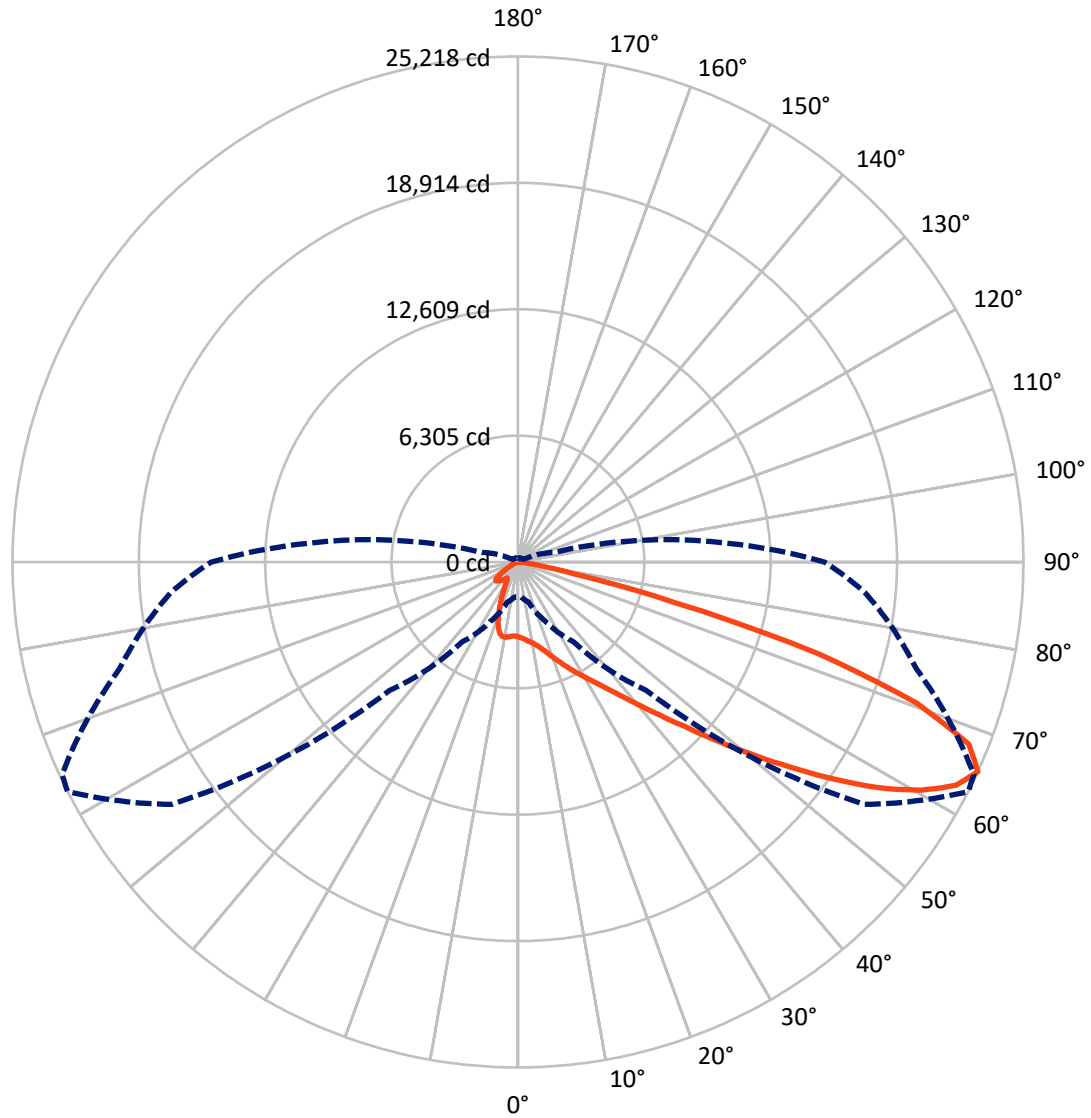
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

REPORT NUMBER: P955345
CATALOG NUMBER: GALN-SB8B-827-U-T2U-HSS

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	4448.0	0.0	4448.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25812.0	0.0	25812.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	30260.0	0.0	30260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.9	1.2
10°-20°	976.3	3.2
20°-30°	1700.0	5.6
30°-40°	3064.1	10.1
40°-50°	6077.1	20.1
50°-60°	8278.1	27.4
60°-70°	6607.5	21.8
70°-80°	2990.0	9.9
80°-90°	214.9	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°	30260.0	100.0
0°-180°	30260.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955345

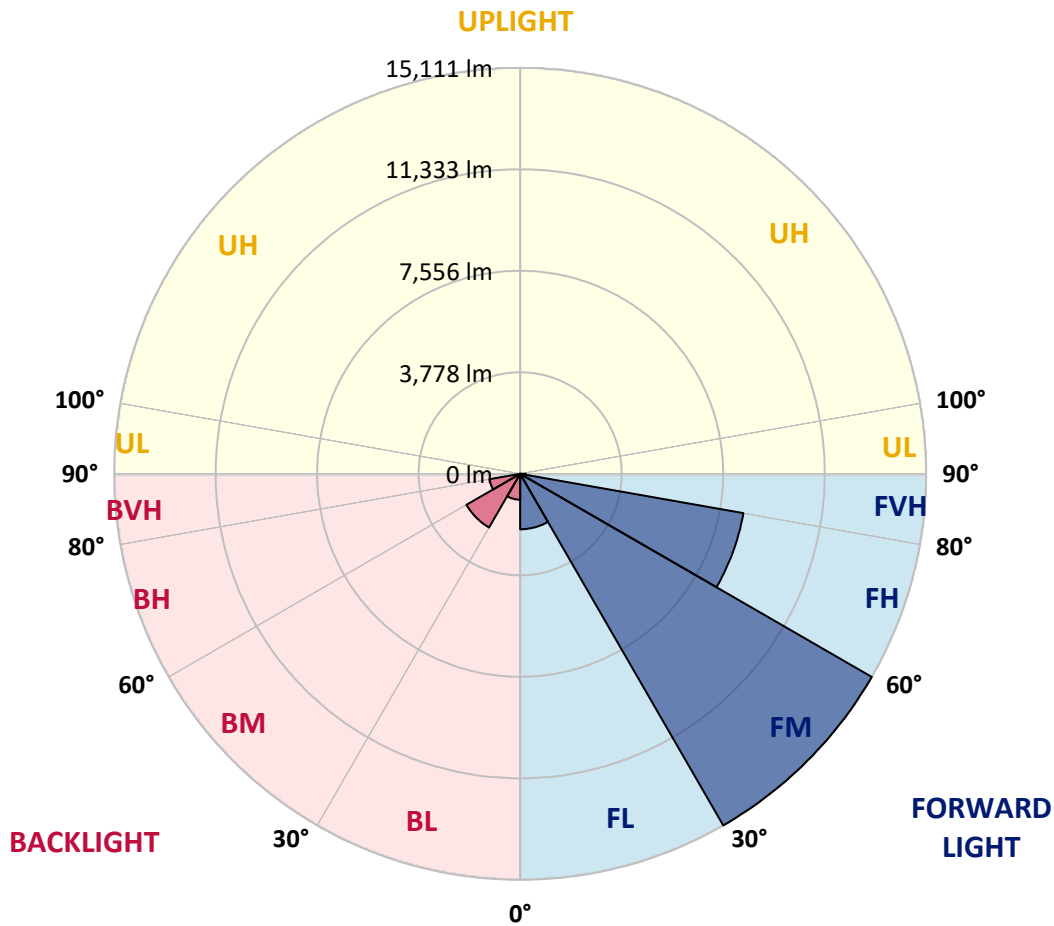
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2065.6	6.8			
FM (30°-60°)	15111.1	49.9			
FH (60°-80°)	8436.3	27.9			G4/12000
FVH (80°-90°)	199.0	0.7			G2/225
BL (0°-30°)	962.6	3.2	B2/1000		
BM (30°-60°)	2308.2	7.6	B2/2500		
BH (60°-80°)	1161.2	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



REPORT NUMBER: P955345
 CATALOG NUMBER: GALN-SB8B-827-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7
2.5°	3822.1	3811.7	3826.3	3820.0	3815.8	3807.5	3803.4	3799.2	3790.9	3784.6
5°	3832.5	3826.3	3840.8	3853.3	3865.8	3878.3	3884.5	3892.9	3884.5	3867.9
7.5°	3745.1	3740.9	3772.1	3809.6	3865.8	3913.7	3965.7	3994.9	3997.0	3990.7
10°	3738.8	3728.4	3759.6	3805.4	3878.3	3963.6	4055.2	4117.7	4126.0	4153.1
12.5°	3836.7	3826.3	3870.0	3919.9	3994.9	4084.4	4196.8	4284.2	4296.7	4334.2
15°	4001.1	3986.5	4036.5	4101.0	4196.8	4298.8	4417.5	4496.6	4507.0	4552.8
17.5°	4192.6	4178.1	4236.4	4305.1	4409.1	4548.6	4686.0	4773.4	4785.9	4815.1
20°	4438.3	4419.6	4465.3	4527.8	4638.1	4804.7	4969.1	5094.0	5092.0	5092.0
22.5°	4723.5	4694.3	4733.9	4783.9	4887.9	5089.9	5308.5	5456.3	5456.3	5398.0
25°	5029.5	5000.4	5044.1	5089.9	5181.5	5410.5	5666.5	5849.7	5858.0	5758.1
27.5°	5412.5	5375.1	5408.4	5462.5	5516.6	5749.8	6053.7	6266.1	6270.2	6116.2
30°	6149.5	6043.3	5939.2	5880.9	5905.9	6137.0	6461.7	6697.0	6717.8	6505.5
32.5°	7498.5	7477.6	7111.3	6632.4	6382.6	6553.3	6917.6	7200.8	7213.3	6940.5
35°	9594.8	9569.8	8980.7	8068.9	7254.9	7111.3	7471.4	7806.6	7798.2	7490.1
37.5°	12097.0	12074.1	11297.6	10077.7	8760.0	7954.4	8185.4	8537.2	8589.3	8185.4
40°	14235.0	14149.6	13658.3	12482.2	10758.5	9353.3	9201.3	9434.5	9488.6	9009.8
42.5°	15854.6	15781.7	15531.9	14797.1	13177.5	11422.6	10398.3	10487.8	10548.2	9973.7
45°	16693.5	16676.9	16776.8	16708.1	15642.3	13962.3	12109.5	11736.9	11759.8	11041.6
47.5°	16812.2	16803.9	17259.8	17905.1	17761.5	16826.8	14305.8	13294.0	13212.9	12246.9
50°	16112.7	16096.1	16970.4	18179.9	19177.1	19233.3	16799.7	15049.0	14869.9	13493.9
52.5°	13879.0	13874.8	15311.3	17324.3	19674.6	21340.0	19264.5	16976.7	16676.9	14813.7
55°	10679.4	10756.4	12403.1	14782.5	18767.0	22353.8	21477.4	19116.7	18656.6	16141.9
57.5°	7565.1	7677.5	9305.4	11424.6	15952.4	21754.3	22974.2	21260.9	20765.4	17465.9
60°	4063.6	4163.5	5793.5	8322.8	11868.0	19518.5	23763.2	23122.0	22653.6	18723.2
62.5°	2421.1	2454.4	3128.9	5373.0	8027.2	14911.6	23428.0	24539.6	24154.5	19778.7
65°	1738.3	1744.5	2083.8	3280.8	4873.4	9059.8	21077.7	25218.3	25099.6	20573.9
67.5°	1463.5	1459.3	1600.9	2179.6	3320.4	4538.2	16154.4	24258.6	24762.4	21077.7
70°	1255.3	1261.5	1428.1	1596.7	2496.0	2568.9	8031.4	21121.4	22195.6	21210.9
72.5°	934.7	955.5	1109.6	1455.1	1884.0	1767.4	2772.9	15661.0	17603.3	19984.8
75°	659.9	670.3	780.7	1224.1	1405.2	1286.5	1415.6	8095.9	10585.7	15321.7
77.5°	507.9	526.7	591.2	855.6	1384.4	903.5	866.0	2802.0	4305.1	9255.5
80°	274.8	308.1	426.8	618.3	972.2	639.1	428.8	1115.8	1459.3	4328.0
82.5°	141.6	158.2	297.7	445.5	553.7	557.9	212.3	464.2	601.6	1336.5
85°	56.2	68.7	199.8	245.6	285.2	274.8	95.8	187.4	216.5	370.6
87.5°	12.5	20.8	72.9	56.2	54.1	58.3	22.9	43.7	41.6	43.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955345
 CATALOG NUMBER: GALN-SB8B-827-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3734.7	0°	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7
3759.6	2.5°	3757.6	3749.2	3726.3	3701.3	3672.2	3655.5	3645.1	3643.1	3628.5	3618.1
3842.9	5°	3820.0	3811.7	3768.0	3715.9	3659.7	3616.0	3574.4	3536.9	3482.8	3472.4
3963.6	7.5°	3944.9	3922.0	3851.2	3780.5	3674.3	3547.3	3393.2	3216.3	3058.1	3010.2
4123.9	10°	4099.0	4067.7	3978.2	3853.3	3618.1	3272.5	2899.9	2554.3	2279.5	2202.5
4313.4	12.5°	4273.8	4246.8	4128.1	3897.0	3382.8	2756.2	2185.8	1757.0	1490.5	1423.9
4515.3	15°	4482.0	4442.5	4278.0	3830.4	2962.3	2094.2	1500.9	1247.0	1151.2	1138.7
4746.4	17.5°	4702.7	4638.1	4411.2	3591.0	2396.1	1488.4	1159.5	1086.7	1045.0	1032.5
4979.5	20°	4904.6	4821.3	4490.3	3228.8	1790.3	1159.5	1038.8	990.9	953.4	938.9
5212.7	22.5°	5106.5	4987.9	4490.3	2735.4	1342.7	1028.4	953.4	909.7	866.0	847.3
5462.5	25°	5316.8	5158.6	4411.2	2185.8	1080.4	943.0	872.3	824.4	786.9	764.0
5699.8	27.5°	5520.8	5302.2	4230.1	1665.4	961.8	868.1	797.3	751.5	716.1	699.5
5958.0	30°	5714.4	5443.8	3976.1	1263.6	884.7	795.2	728.6	689.1	653.7	637.0
6293.1	32.5°	5976.7	5622.8	3705.5	1036.7	818.1	726.5	666.2	628.7	597.5	585.0
6728.2	35°	6341.0	5887.2	3472.4	1018.0	761.9	670.3	610.0	574.6	543.3	532.9
7290.3	37.5°	6857.3	6313.9	3349.5	1142.9	716.1	620.4	564.2	526.7	497.5	489.2
8004.3	40°	7494.3	6892.7	3416.1	1267.8	684.9	576.6	522.5	485.0	460.1	449.7
8824.5	42.5°	8250.0	7606.7	3784.6	1363.5	664.1	539.2	483.0	441.3	424.7	420.5
9755.1	45°	9118.1	8391.5	4348.8	1465.6	630.8	503.8	443.4	412.2	399.7	397.6
10766.8	47.5°	10104.8	9253.4	5002.4	1592.5	597.5	470.5	412.2	391.4	381.0	376.8
11822.2	50°	11083.2	10121.5	5674.8	1663.3	570.4	439.2	387.2	370.6	362.2	360.1
12938.1	52.5°	12107.4	11014.5	6218.2	1596.7	547.5	414.3	366.4	353.9	345.6	343.5
13966.4	55°	13083.8	11736.9	6311.9	1355.2	501.7	389.3	343.5	337.2	326.8	326.8
15009.4	57.5°	13924.8	12099.1	5649.9	995.1	455.9	351.8	320.6	314.3	306.0	303.9
15950.4	60°	14697.1	11995.0	4361.3	670.3	405.9	314.3	291.4	287.3	279.0	268.5
16768.5	62.5°	15132.2	11537.0	2983.1	437.2	356.0	274.8	258.1	256.1	237.3	216.5
17374.3	65°	15296.7	10596.1	1861.1	318.5	297.7	235.2	222.7	218.6	191.5	168.6
17717.8	67.5°	15153.0	9047.3	938.9	251.9	235.2	195.7	183.2	183.2	164.5	143.6
17696.9	70°	14578.5	6782.3	395.5	201.9	181.1	149.9	149.9	158.2	139.5	116.6
16778.9	72.5°	13331.5	4563.2	210.3	154.0	135.3	106.2	122.8	129.1	110.3	87.4
13733.3	75°	10598.2	2783.3	145.7	114.5	85.4	74.9	93.7	97.8	74.9	58.3
9415.7	77.5°	7248.6	1598.8	97.8	72.9	54.1	43.7	64.5	60.4	39.6	27.1
3630.6	80°	3183.0	666.2	56.2	33.3	20.8	16.7	22.9	16.7	12.5	8.3
497.5	82.5°	372.6	156.1	20.8	12.5	8.3	4.2	2.1	0.0	0.0	0.0
152.0	85°	77.0	18.7	10.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
27.1	87.5°	14.6	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°
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3734.7
3628.5
3468.2
2987.3
2173.3
1405.2
1126.2
1026.3
930.5
836.9
755.7
699.5
639.1
585.0
532.9
487.1
447.6
420.5
395.5
376.8
360.1
343.5
324.8
301.9
266.5
212.3
166.5
141.6
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