

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: P956777

Luminaire Tested: **GALN-SB9B-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

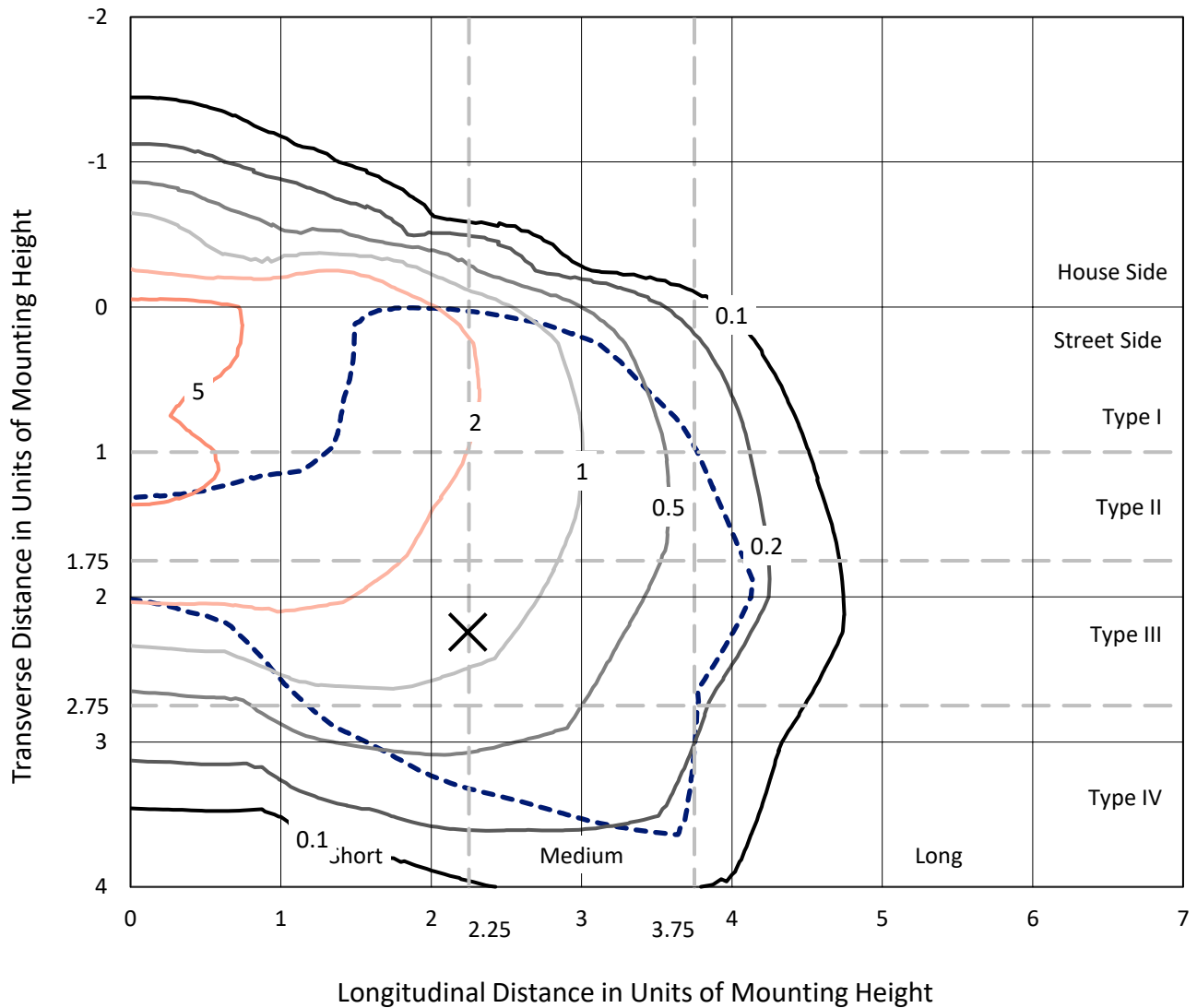
Lumens per Lamp: N/A  
Luminaire Lumens: 34355 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

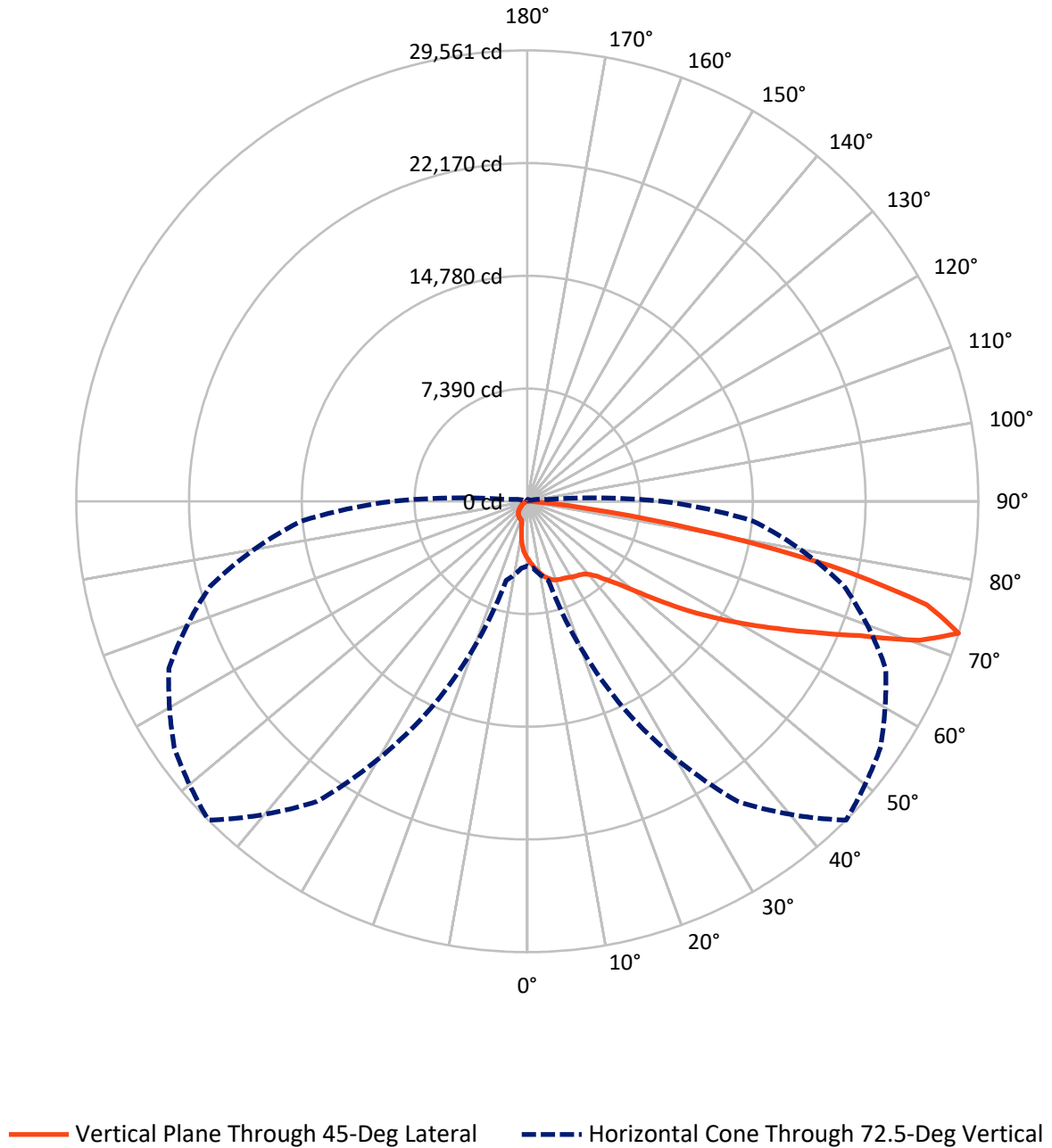
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3609.8	0.0	3609.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	30745.2	0.0	30745.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	34355.0	0.0	34355.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.6	1.0
10°-20°	1036.4	3.0
20°-30°	1701.9	5.0
30°-40°	2413.7	7.0
40°-50°	3989.6	11.6
50°-60°	7166.8	20.9
60°-70°	9951.6	29.0
70°-80°	7218.5	21.0
80°-90°	521.9	1.5
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°	34355.0	100.0
0°-180°	34355.0	100.0

**Coefficient of Utilization**



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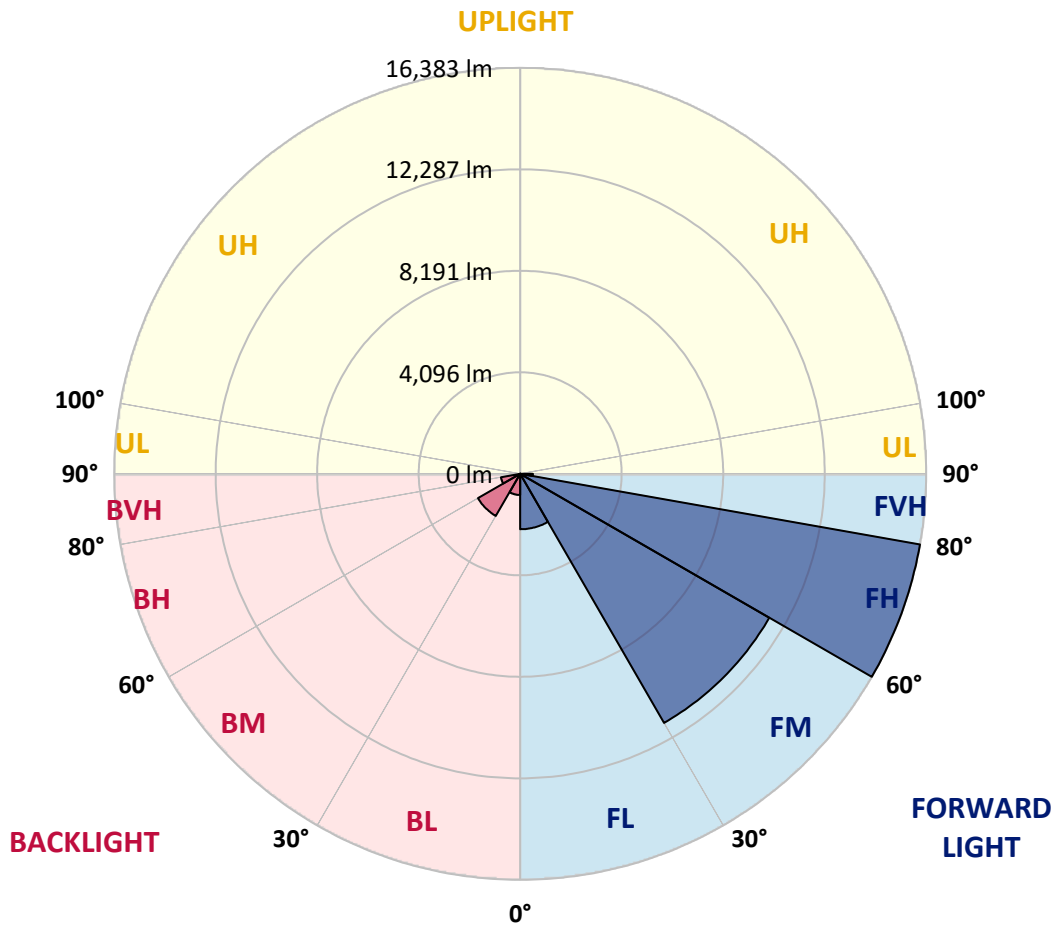
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2237.9	6.5			
FM (30°-60°)	11606.9	33.8			
FH (60°-80°)	16382.9	47.7			G5
FVH (80°-90°)	517.5	1.5			G4/750
BL (0°-30°)	855.0	2.5	B2/1000		
BM (30°-60°)	1963.2	5.7	B2/2500		
BH (60°-80°)	787.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7
2.5°	4110.7	4117.8	4113.1	4084.9	4038.0	4012.2	3998.2	3951.3	3920.8	3866.8
5°	4488.3	4516.4	4500.0	4443.7	4354.6	4291.3	4272.5	4176.4	4089.6	3988.8
7.5°	4889.2	4903.3	4872.8	4800.1	4680.5	4572.7	4556.3	4422.6	4284.2	4129.5
10°	5236.3	5252.7	5205.8	5100.3	4964.3	4830.6	4807.2	4659.4	4495.3	4305.3
12.5°	5527.1	5543.5	5482.5	5355.9	5205.8	5067.5	5044.0	4889.2	4708.7	4497.6
15°	5747.5	5778.0	5695.9	5559.9	5398.1	5259.7	5248.0	5095.6	4919.7	4685.2
17.5°	5876.5	5907.0	5829.6	5665.4	5527.1	5409.8	5395.8	5269.1	5105.0	4879.9
20°	5897.6	5925.7	5843.6	5700.6	5585.7	5491.9	5484.9	5393.4	5273.8	5058.1
22.5°	5834.3	5869.4	5794.4	5679.5	5599.8	5550.5	5541.1	5489.6	5421.6	5238.6
25°	5768.6	5796.7	5740.5	5639.6	5597.4	5592.7	5599.8	5590.4	5576.3	5421.6
27.5°	5763.9	5794.4	5731.1	5634.9	5611.5	5660.7	5667.8	5712.3	5724.1	5588.0
30°	5803.8	5824.9	5763.9	5663.1	5651.4	5763.9	5766.3	5846.0	5864.7	5728.7
32.5°	5890.5	5914.0	5853.0	5705.3	5688.9	5846.0	5853.0	5958.5	5989.0	5878.8
35°	6094.6	6122.7	6052.3	5822.5	5763.9	5923.4	5944.5	6068.8	6129.7	6038.3
37.5°	6603.4	6521.3	6425.2	6059.4	5935.1	6045.3	6080.5	6225.9	6333.7	6228.2
40°	7867.3	7609.4	7309.2	6462.7	6235.3	6305.6	6333.7	6479.1	6626.9	6523.7
42.5°	9764.4	9459.6	8976.5	7391.3	6687.8	6723.0	6744.1	6870.7	7079.4	6997.4
45°	11455.1	11344.9	10852.5	8976.5	7534.4	7360.8	7386.6	7452.3	7759.5	7729.0
47.5°	12754.2	12690.9	12311.0	10796.2	8964.8	8141.7	8214.4	8244.9	8688.1	8796.0
50°	13753.2	13729.8	13389.7	12414.2	10833.7	9293.1	9318.9	9253.2	9916.8	10184.2
52.5°	14695.9	14775.6	14524.7	13917.3	12829.3	10800.9	10796.2	10486.7	11382.4	11785.8
55°	15547.1	15575.2	15601.0	15451.0	14836.6	12517.4	12472.9	11966.3	13082.5	13499.9
57.5°	16346.7	16358.5	16588.3	16895.4	16925.9	14360.5	14278.5	13671.1	14939.8	15237.6
60°	16883.7	16937.7	17423.1	18276.6	18649.5	16262.3	16217.8	15598.7	16829.8	16968.1
62.5°	16109.9	16438.2	17662.3	19355.3	20276.9	18370.4	18349.3	17767.8	18818.3	18705.8
65°	13040.3	13596.1	15748.8	20084.6	21873.8	20724.8	20755.3	20136.2	20860.8	20495.0
67.5°	9121.9	9708.1	12254.8	20143.2	23658.3	23489.5	23665.4	22694.5	23029.9	22209.1
70°	6307.9	6610.4	8268.3	18881.6	25048.9	27297.7	27293.0	25836.8	25187.2	22990.0
72.5°	4242.0	4399.1	5370.0	14979.6	24026.5	29560.6	29424.6	28238.0	25914.2	21501.0
75°	1789.2	1904.1	2485.7	8418.4	19008.3	27044.4	26676.3	24955.1	23025.2	16930.6
77.5°	567.5	616.7	980.2	3013.3	10470.3	20328.5	19939.2	15584.6	15432.2	8493.5
80°	269.7	314.2	551.1	1210.0	4120.1	11056.5	11002.6	7070.1	6638.6	2293.4
82.5°	117.2	138.4	304.8	647.2	1843.1	3944.2	4024.0	2405.9	1990.9	870.0
85°	37.5	49.2	140.7	297.8	778.5	980.2	968.5	572.2	802.0	473.7
87.5°	0.0	0.0	46.9	68.0	79.7	56.3	63.3	49.2	222.8	131.3
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°
3763.7	0°	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7
3810.6	2.5°	3782.4	3744.9	3679.2	3618.3	3564.3	3510.4	3477.6	3430.7	3426.0	3426.0
3871.5	5°	3808.2	3747.2	3630.0	3505.7	3362.7	3226.7	3090.7	2959.3	2917.1	2886.6
3970.0	7.5°	3883.3	3787.1	3601.9	3365.0	3093.0	2795.2	2586.5	2361.4	2274.6	2227.7
4101.3	10°	3991.1	3859.8	3578.4	3163.4	2722.5	2316.8	2019.0	1775.1	1681.3	1641.5
4244.4	12.5°	4110.7	3948.9	3536.2	2912.4	2316.8	1831.4	1540.6	1428.1	1414.0	1414.0
4415.6	15°	4253.8	4056.8	3463.5	2617.0	1892.4	1449.2	1346.0	1350.7	1364.8	1374.1
4582.1	17.5°	4401.5	4171.7	3348.6	2286.3	1517.2	1303.8	1306.1	1313.2	1324.9	1334.3
4762.6	20°	4561.0	4286.6	3196.2	1934.6	1301.5	1261.6	1268.6	1275.7	1285.0	1289.7
4931.5	22.5°	4732.1	4394.5	3015.6	1589.9	1228.8	1226.4	1228.8	1235.8	1247.5	1247.5
5128.4	25°	4915.0	4514.1	2809.3	1339.0	1191.2	1191.2	1195.9	1200.6	1210.0	1210.0
5318.4	27.5°	5102.6	4624.3	2591.2	1207.7	1158.4	1156.1	1156.1	1163.1	1167.8	1170.1
5506.0	30°	5309.0	4753.2	2373.1	1179.5	1132.6	1120.9	1113.9	1118.5	1123.2	1125.6
5702.9	32.5°	5520.0	4877.5	2178.5	1191.2	1106.8	1085.7	1062.3	1057.6	1057.6	1067.0
5907.0	35°	5754.5	5013.5	2028.4	1231.1	1092.8	1034.1	996.6	975.5	977.8	991.9
6150.8	37.5°	6035.9	5177.7	1918.2	1266.3	1083.4	975.5	914.5	888.7	872.3	888.7
6486.2	40°	6404.1	5419.2	1838.4	1294.4	1071.6	907.5	825.4	783.2	752.7	762.1
7006.7	42.5°	6945.8	5799.1	1808.0	1296.8	1045.9	827.8	734.0	677.7	633.1	635.5
7790.0	45°	7705.5	6399.4	1965.1	1266.3	989.6	741.0	637.8	562.8	534.7	527.6
8960.1	47.5°	8746.7	7274.1	2328.5	1203.0	907.5	656.6	544.0	480.7	459.6	447.9
10496.0	50°	10142.0	8397.3	2731.9	1132.6	825.4	576.9	466.6	426.8	412.7	401.0
12318.1	52.5°	11760.0	9537.0	3062.5	1062.3	743.4	506.5	417.4	394.0	382.2	372.8
14076.8	55°	13244.3	10322.5	3043.8	987.2	663.6	450.2	382.2	368.2	354.1	344.7
15591.6	57.5°	14168.3	10432.7	2509.1	905.2	572.2	405.7	349.4	340.0	323.6	311.9
16902.5	60°	14592.7	9804.3	1758.7	797.3	480.7	363.5	314.2	309.5	288.4	272.0
18143.0	62.5°	14670.1	8636.5	1172.5	663.6	401.0	323.6	279.1	272.0	243.9	215.7
19151.3	65°	14355.9	6966.9	811.4	518.2	342.4	281.4	239.2	225.1	194.6	166.5
19390.5	67.5°	13361.6	4891.6	565.1	372.8	290.8	222.8	189.9	185.3	161.8	138.4
18171.1	70°	11539.6	2788.2	377.5	279.1	229.8	152.4	150.1	154.8	131.3	112.6
14846.0	72.5°	8847.5	1275.7	234.5	204.0	157.1	103.2	119.6	121.9	100.8	84.4
9262.6	75°	5208.2	546.4	147.7	131.3	79.7	68.0	86.8	89.1	68.0	53.9
3386.1	77.5°	1772.8	206.4	93.8	77.4	39.9	37.5	56.3	56.3	37.5	21.1
680.0	80°	403.3	77.4	46.9	30.5	18.8	16.4	18.8	16.4	9.4	2.3
208.7	82.5°	114.9	30.5	18.8	11.7	7.0	7.0	2.3	0.0	0.0	0.0
72.7	85°	32.8	14.1	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
25.8	87.5°	14.1	2.3	0.0	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°
3763.7
3437.7
2900.7
2234.7
1641.5
1414.0
1374.1
1334.3
1292.1
1252.2
1212.3
1172.5
1130.3
1074.0
999.0
884.1
757.4
626.1
518.2
440.9
398.6
370.5
340.0
309.5
267.3
201.7
157.1
131.3
103.2
75.0
46.9
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