

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: P950891

Luminaire Tested: **GALN-SB5A-950-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-950-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

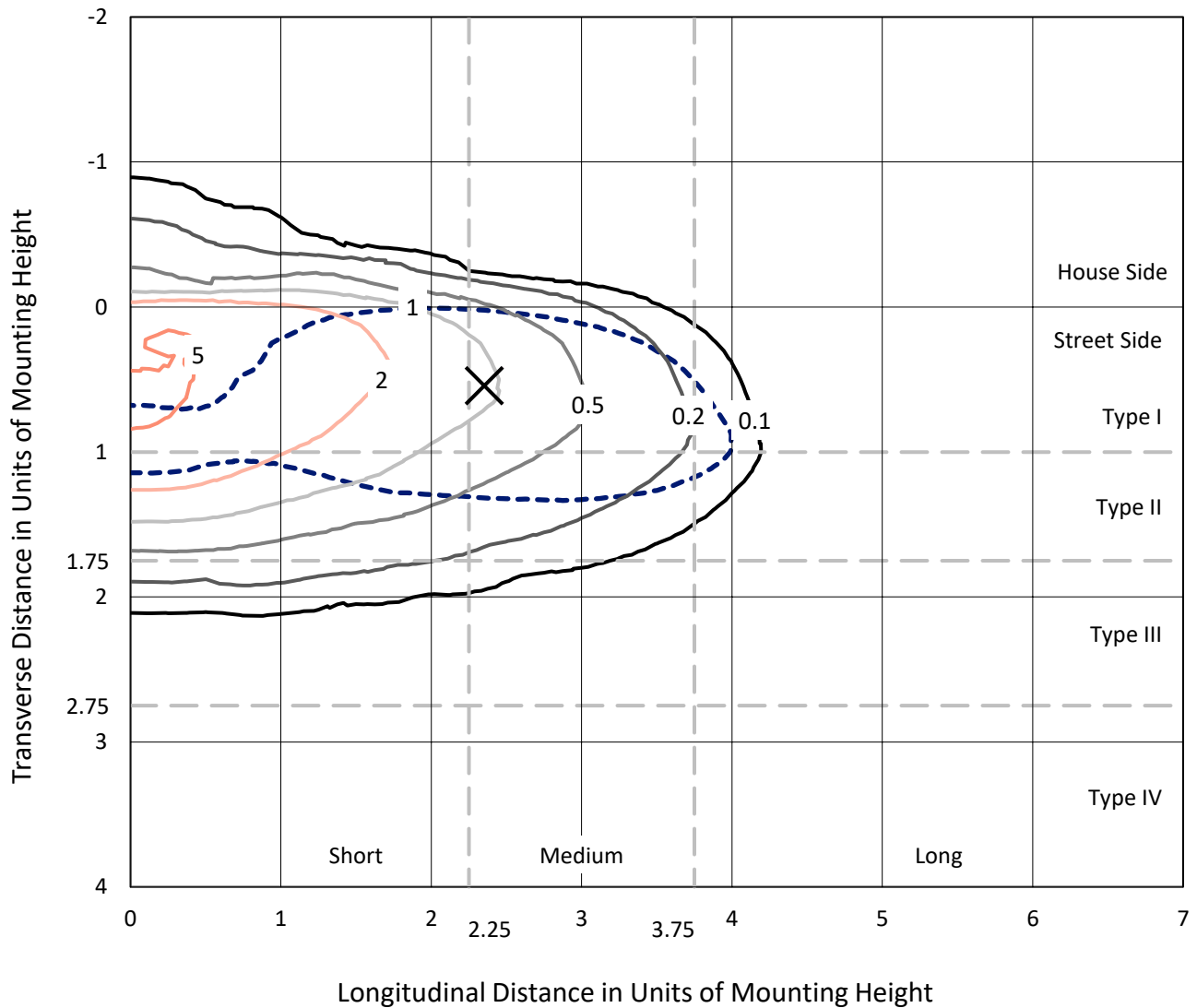
Lumens per Lamp: N/A  
Luminaire Lumens: 13346 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

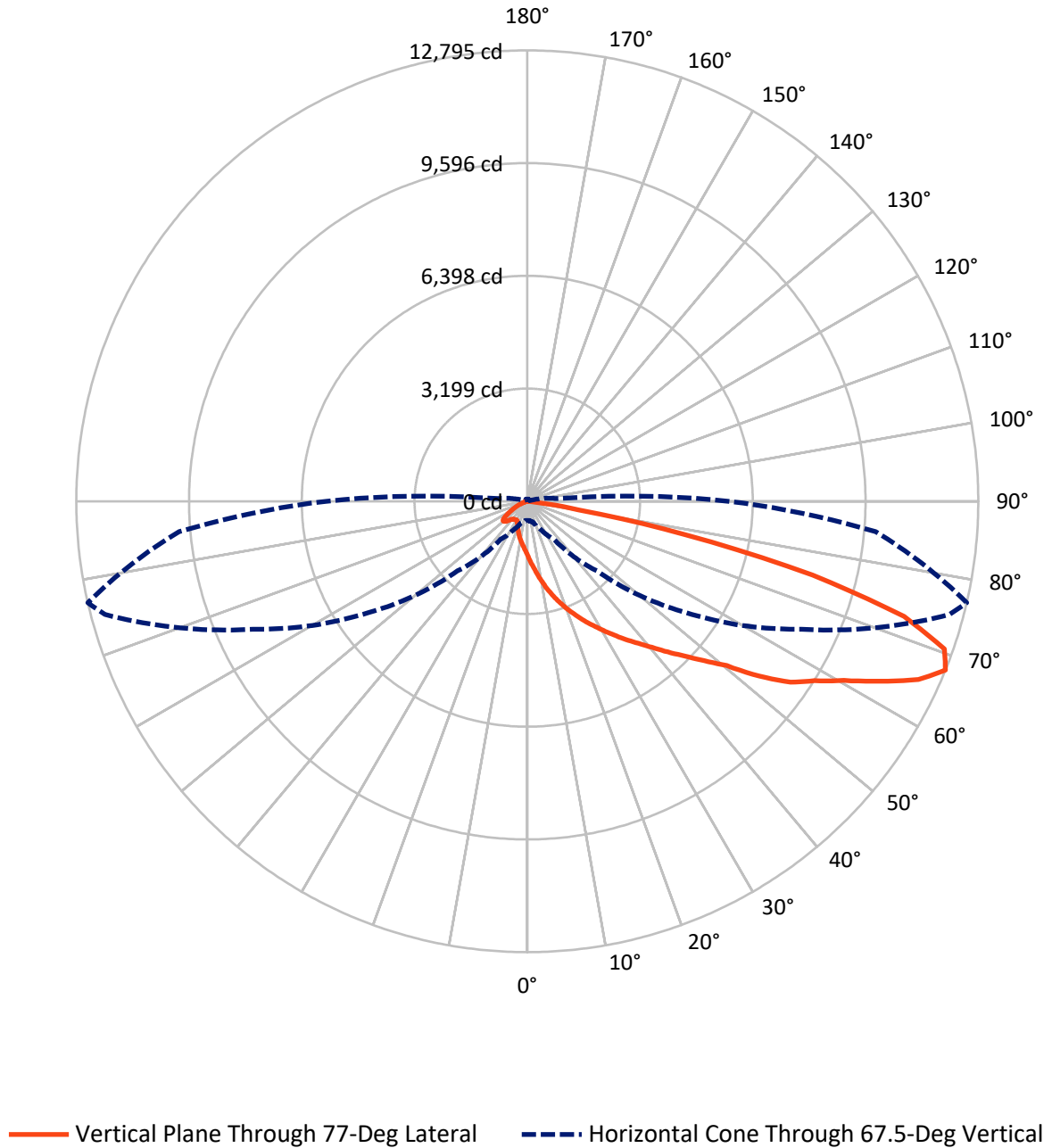
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	981.9	0.0	981.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	12364.1	0.0	12364.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	13346.0	0.0	13346.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.1	1.2
10°-20°	550.1	4.1
20°-30°	1061.5	8.0
30°-40°	1842.8	13.8
40°-50°	2675.7	20.0
50°-60°	3072.7	23.0
60°-70°	2667.6	20.0
70°-80°	1256.5	9.4
80°-90°	62.1	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°	13346.0	100.0
0°-180°	13346.0	100.0

**Coefficient of Utilization**



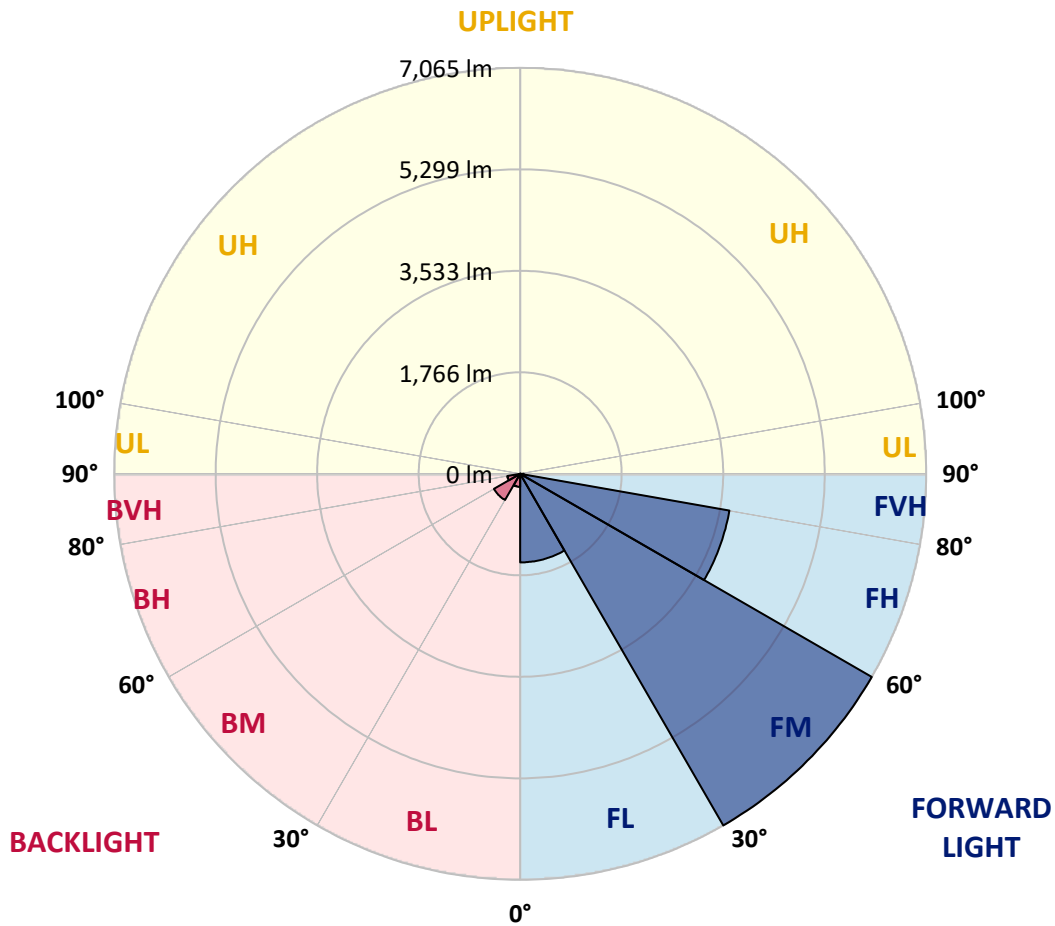
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.3	11.5			
FM (30°-60°)	7065.0	52.9			
FH (60°-80°)	3696.8	27.7			G2/5000
FVH (80°-90°)	61.0	0.5			G1/100
BL (0°-30°)	227.3	1.7	B1/500		
BM (30°-60°)	526.1	3.9	B1/1000		
BH (60°-80°)	227.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0
2.5°	2130.7	2144.0	2124.9	2088.5	2033.8	1998.1	1911.1	1829.1	1737.9	1708.9
5°	2597.3	2608.9	2587.4	2547.6	2474.6	2405.0	2290.7	2119.1	1940.9	1883.8
7.5°	2942.9	2949.5	2941.2	2904.8	2835.2	2756.4	2628.8	2425.8	2161.4	2098.4
10°	3191.5	3213.1	3210.6	3196.5	3150.1	3086.3	2950.4	2719.1	2408.3	2327.1
12.5°	3356.4	3380.5	3394.6	3426.1	3423.6	3383.0	3263.6	3019.1	2654.5	2559.2
15°	3404.5	3430.2	3484.1	3557.0	3621.6	3642.4	3558.7	3313.3	2925.5	2803.7
17.5°	3377.2	3416.9	3481.6	3596.8	3738.5	3832.1	3823.0	3597.6	3171.6	3032.4
20°	3437.7	3475.8	3526.3	3623.3	3788.2	3958.1	4026.1	3869.4	3416.1	3270.3
22.5°	3772.5	3765.8	3770.8	3786.6	3885.2	4053.4	4193.5	4116.4	3658.1	3508.9
25°	4302.9	4273.0	4222.5	4137.1	4112.3	4193.5	4339.3	4335.2	3913.4	3753.4
27.5°	4911.2	4906.2	4787.7	4582.2	4466.1	4434.6	4504.3	4548.2	4166.1	3995.4
30°	5493.8	5507.0	5347.1	5118.4	4905.4	4781.9	4718.9	4750.4	4423.0	4256.5
32.5°	6001.0	6015.1	5841.0	5573.3	5309.8	5160.6	5028.0	4950.1	4703.2	4521.7
35°	6429.4	6443.5	6243.8	5947.9	5667.0	5531.9	5381.9	5168.9	4984.9	4815.9
37.5°	6812.3	6808.2	6540.5	6242.1	5966.2	5859.3	5780.5	5438.3	5275.0	5111.7
40°	7038.6	7056.0	6827.2	6498.2	6230.5	6152.6	6147.7	5772.2	5609.8	5451.5
42.5°	7104.9	7135.5	6969.8	6699.6	6456.8	6372.3	6502.4	6133.6	5999.3	5845.2
45°	6985.5	7015.4	6940.0	6752.7	6610.9	6556.2	6807.4	6508.2	6415.4	6262.9
47.5°	6637.5	6674.8	6693.0	6653.2	6651.6	6707.1	7080.8	6902.7	6909.3	6753.5
50°	5963.7	6026.7	6194.1	6335.0	6552.9	6826.4	7346.9	7330.3	7466.2	7332.0
52.5°	4738.8	4828.3	5405.1	5790.5	6280.3	6804.0	7639.4	8016.5	8443.3	8246.9
55°	3808.1	3808.1	4277.2	4998.2	5748.2	6656.5	7767.1	8462.4	9108.8	9062.4
57.5°	3104.5	3141.8	3441.0	4078.3	4978.3	6305.1	7845.8	8742.5	9645.0	9611.0
60°	1916.1	1996.5	2561.7	3190.7	4102.3	5679.4	7796.1	9025.9	10295.6	10322.9
62.5°	1079.0	1108.9	1360.8	2295.6	3189.9	4838.2	7415.7	9184.2	11127.6	11243.7
65°	745.0	760.0	856.9	1428.8	2211.1	3852.0	6672.3	9085.6	11961.4	12195.9
67.5°	541.2	548.6	609.1	872.7	1311.9	2792.9	5507.0	8588.3	12403.1	12795.1
70°	416.0	421.0	464.9	573.5	774.9	1723.8	3999.6	7599.6	12083.2	12551.4
72.5°	338.1	343.1	377.1	424.3	513.8	1019.4	2424.1	6171.7	10671.0	11176.5
75°	285.1	291.7	322.4	353.0	402.8	654.7	1137.0	4297.9	8024.8	8356.3
77.5°	158.3	145.9	261.9	292.5	339.8	414.4	532.1	2529.3	4494.3	4586.3
80°	98.6	101.9	208.0	235.4	261.1	208.8	243.7	973.8	1558.1	1480.1
82.5°	5.8	13.3	159.9	169.9	179.0	89.5	92.0	330.7	375.4	344.8
85°	0.0	0.0	72.9	58.8	62.2	25.7	26.5	77.1	50.6	54.7
87.5°	0.0	0.0	0.0	1.7	0.0	2.5	5.0	6.6	2.5	3.3
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°
1539.0	0°	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0	1539.0
1617.7	2.5°	1559.7	1501.7	1384.0	1268.8	1175.2	1088.1	1026.0	967.2	937.3	935.7
1722.1	5°	1606.9	1485.1	1249.8	1041.7	874.3	740.1	653.1	590.9	559.4	548.6
1850.6	7.5°	1673.2	1490.1	1132.1	842.8	645.6	530.4	480.7	460.8	454.2	446.7
1995.6	10°	1757.0	1501.7	1026.8	678.7	508.9	450.8	431.0	422.7	417.7	412.7
2158.9	12.5°	1850.6	1512.5	922.4	563.6	447.5	417.7	403.6	393.7	387.0	381.2
2326.3	15°	1941.8	1519.1	813.8	483.2	416.0	392.0	377.1	366.3	357.2	350.6
2490.4	17.5°	2032.1	1528.2	711.9	435.1	390.3	366.3	351.4	338.1	330.7	323.2
2662.8	20°	2132.4	1526.6	615.8	401.1	364.7	340.6	324.9	312.4	305.0	296.7
2845.1	22.5°	2225.2	1518.3	531.2	372.1	338.1	314.9	297.5	285.1	277.6	271.0
3031.6	25°	2332.1	1511.6	460.8	345.6	313.3	290.1	271.0	259.4	251.1	245.3
3218.9	27.5°	2434.9	1501.7	409.4	321.6	289.2	266.9	248.6	235.4	227.9	223.8
3412.0	30°	2536.0	1499.2	390.3	298.4	267.7	245.3	227.1	214.6	208.8	207.2
3624.1	32.5°	2657.8	1505.8	398.6	290.1	247.8	225.4	208.0	198.9	193.1	193.1
3860.3	35°	2787.9	1504.2	411.1	297.5	234.5	205.5	192.3	186.5	180.7	180.7
4122.2	37.5°	2951.2	1506.7	421.0	310.0	229.6	189.0	181.5	174.0	170.7	170.7
4409.0	40°	3194.8	1588.7	416.0	320.7	227.9	177.4	162.4	159.9	157.5	157.5
4733.0	42.5°	3493.2	1766.9	422.7	321.6	227.1	169.1	149.2	154.1	148.3	147.5
5098.5	45°	3819.7	1961.7	464.9	304.2	226.2	164.9	142.5	148.3	139.2	139.2
5522.0	47.5°	4143.8	2154.8	508.0	279.3	223.8	164.1	136.7	133.4	130.9	131.8
6073.9	50°	4590.4	2312.2	524.6	245.3	218.0	162.4	126.0	126.8	125.1	126.8
6852.1	52.5°	5076.9	2345.4	504.7	207.2	201.4	157.5	118.5	121.8	121.0	122.7
7399.9	55°	5380.2	2309.7	416.9	172.4	175.7	137.6	111.1	117.7	117.7	117.7
7935.3	57.5°	5693.5	2158.1	295.9	140.1	145.9	112.7	104.4	113.5	112.7	111.9
8580.1	60°	5918.9	1912.8	194.8	115.2	116.0	92.8	97.0	106.9	106.1	101.9
9244.7	62.5°	6087.2	1641.8	125.1	97.8	88.7	83.7	88.7	97.0	93.6	84.5
9808.3	65°	6068.1	1266.3	96.1	83.7	72.9	72.9	77.1	84.5	74.6	59.7
9916.0	67.5°	5714.2	856.9	79.6	70.4	61.3	60.5	63.8	70.4	63.8	50.6
9364.1	70°	5081.9	560.2	63.8	54.7	48.9	44.8	51.4	60.5	53.9	40.6
7971.8	72.5°	4124.7	341.4	48.1	39.8	35.6	29.0	40.6	49.7	43.1	29.8
5543.5	75°	2668.6	174.0	33.2	25.7	19.1	17.4	29.8	37.3	29.8	18.2
2459.7	77.5°	1021.0	72.9	18.2	11.6	9.9	8.3	16.6	22.4	12.4	4.1
476.5	80°	196.4	30.7	9.1	5.8	5.0	3.3	2.5	1.7	0.0	0.0
84.5	82.5°	34.0	9.9	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
16.6	85°	11.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	4.1	0.0	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°
1539.0
934.0
547.0
445.0
411.1
379.6
349.7
322.4
295.9
270.2
244.5
223.8
206.4
193.1
180.7
170.7
157.5
146.7
139.2
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126.8
122.7
117.7
111.9
101.9
82.9
58.0
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