

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: P949379

Luminaire Tested: **GALN-SB4A-927-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949379  
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-SB4A-927-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

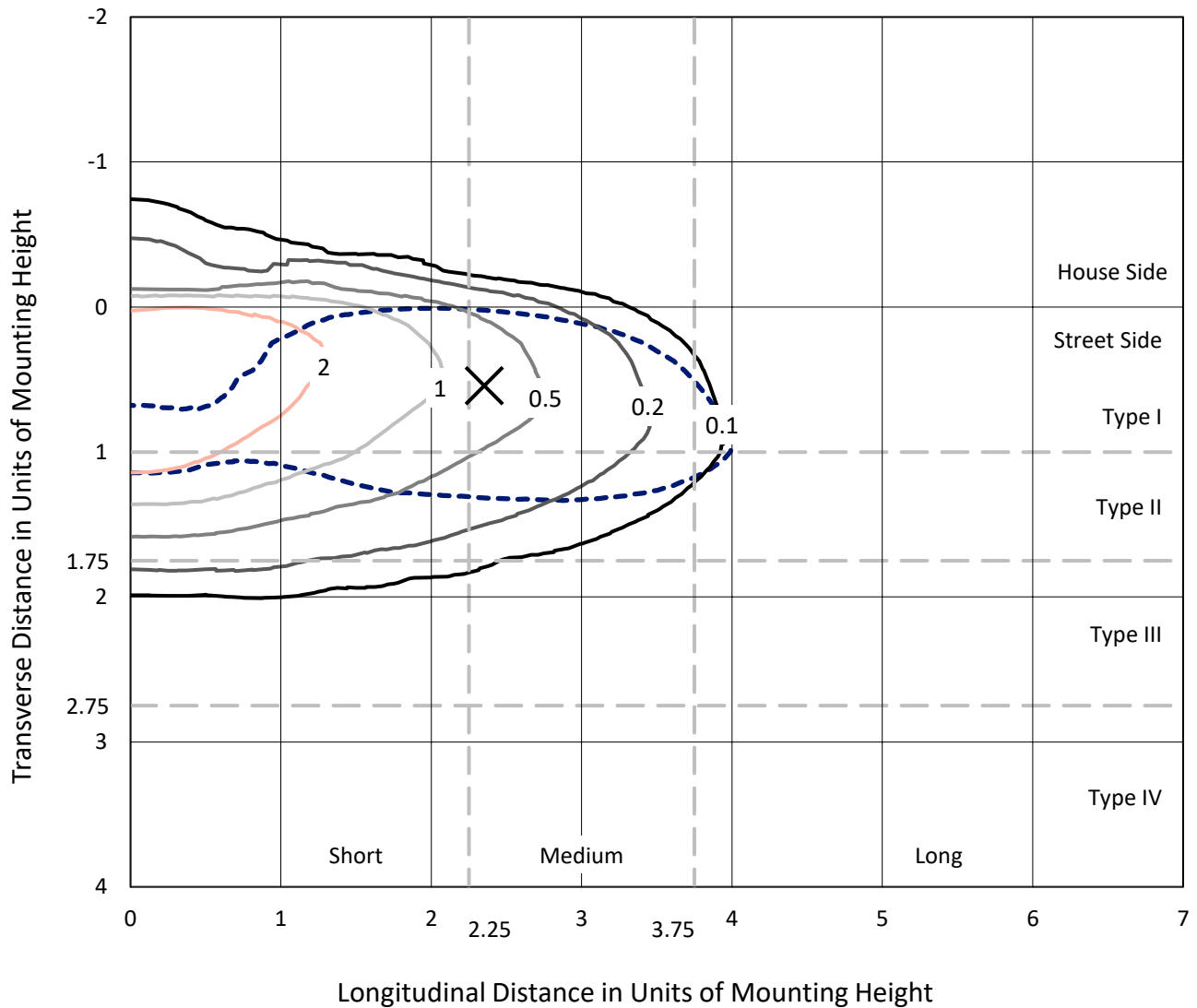
Lumens per Lamp: N/A  
Luminaire Lumens: 9265 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

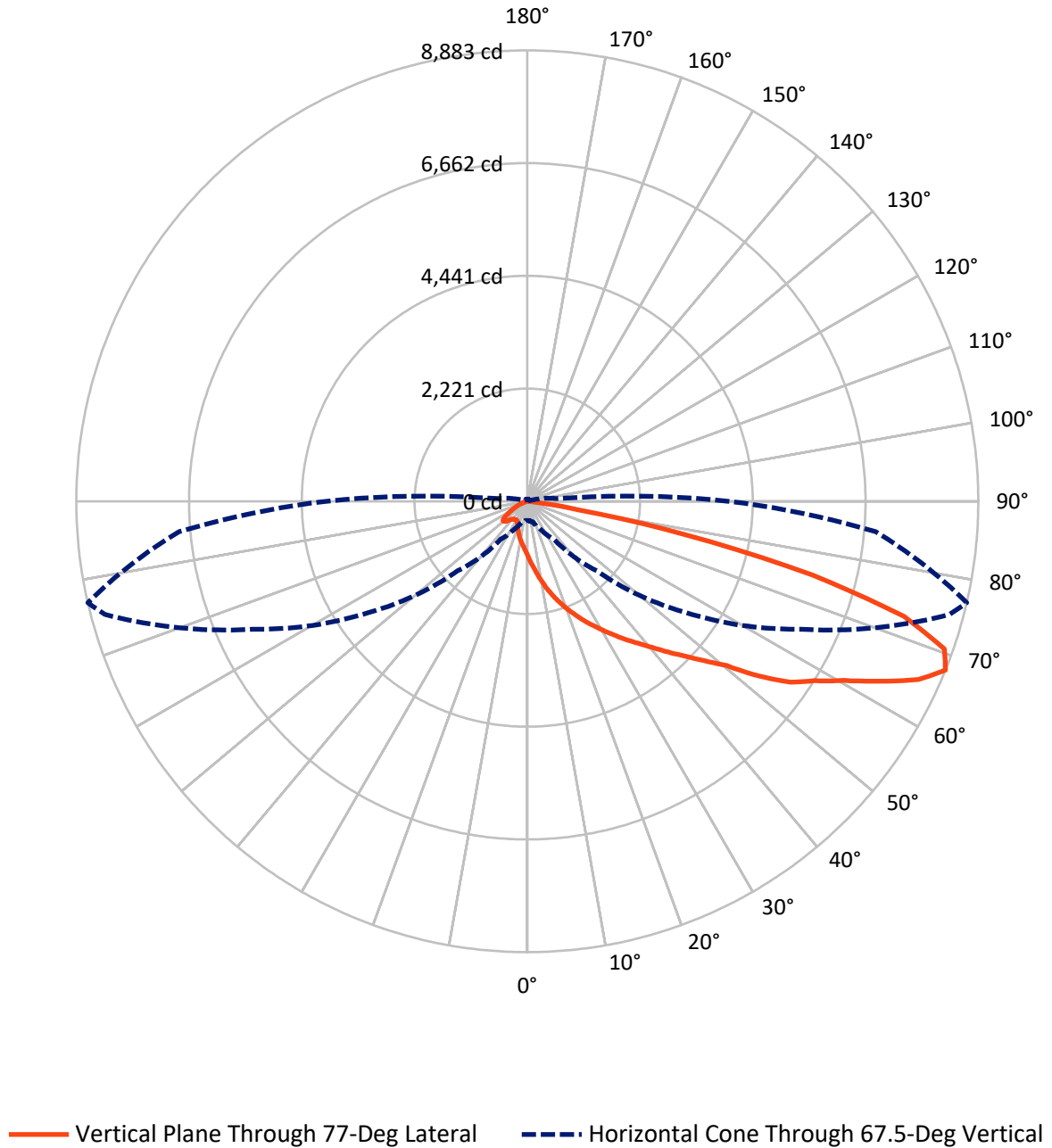
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	681.6	0.0	681.6
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	8583.4	0.0	8583.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	9265.0	0.0	9265.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	1.2
10°-20°	381.9	4.1
20°-30°	736.9	8.0
30°-40°	1279.3	13.8
40°-50°	1857.5	20.0
50°-60°	2133.1	23.0
60°-70°	1851.9	20.0
70°-80°	872.3	9.4
80°-90°	43.1	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°	9265.0	100.0
0°-180°	9265.0	100.0

**Coefficient of Utilization**



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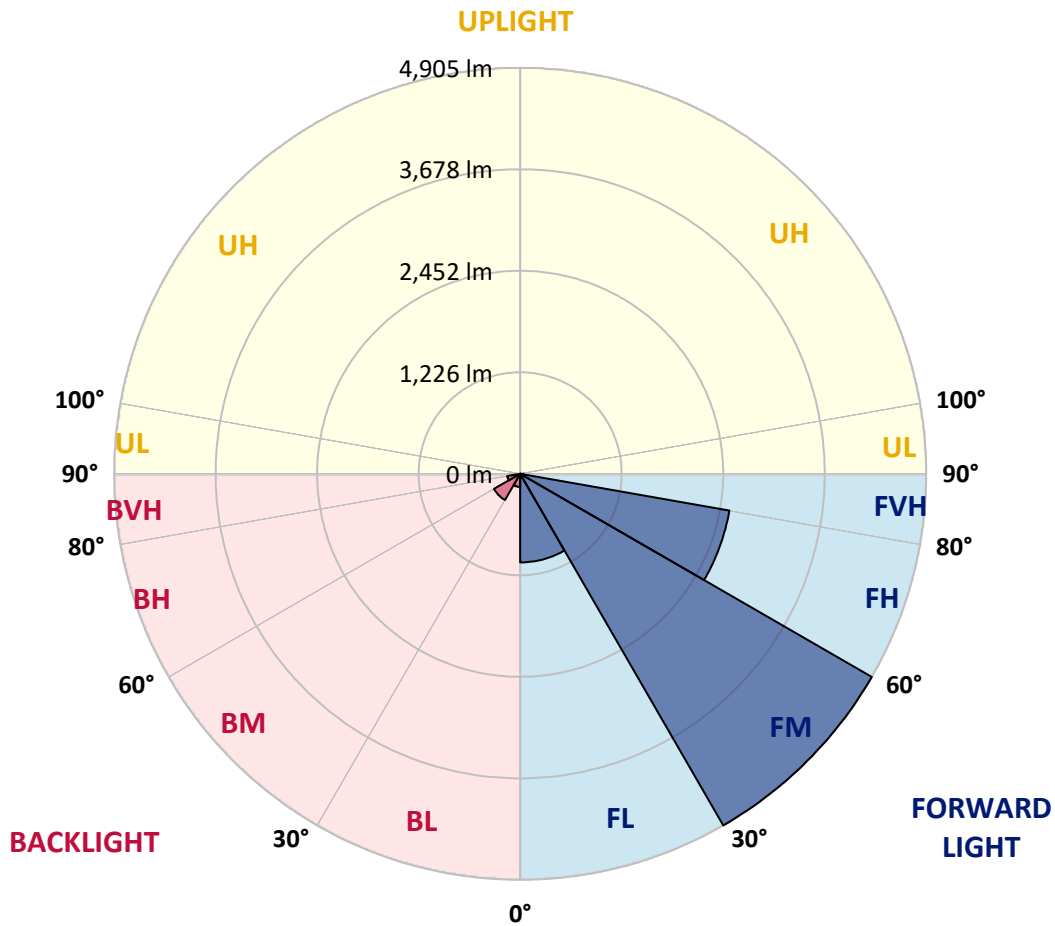
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.0	11.5			
FM (30°-60°)	4904.6	52.9			
FH (60°-80°)	2566.4	27.7			G2/5000
FVH (80°-90°)	42.3	0.5			G1/100
BL (0°-30°)	157.8	1.7	B1/500		
BM (30°-60°)	365.2	3.9	B1/1000		
BH (60°-80°)	157.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.8	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°	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4
2.5°	1479.2	1488.4	1475.2	1449.8	1411.9	1387.1	1326.7	1269.8	1206.5	1186.3
5°	1803.1	1811.1	1796.2	1768.6	1717.9	1669.6	1590.2	1471.1	1347.4	1307.7
7.5°	2043.0	2047.6	2041.9	2016.5	1968.2	1913.6	1825.0	1684.0	1500.5	1456.7
10°	2215.6	2230.6	2228.8	2219.1	2186.8	2142.5	2048.2	1887.7	1671.9	1615.5
12.5°	2330.1	2346.8	2356.6	2378.4	2376.7	2348.5	2265.7	2095.9	1842.8	1776.6
15°	2363.5	2381.3	2418.7	2469.3	2514.2	2528.6	2470.5	2300.2	2030.9	1946.3
17.5°	2344.5	2372.1	2417.0	2496.9	2595.3	2660.3	2654.0	2497.5	2201.8	2105.1
20°	2386.5	2412.9	2448.0	2515.3	2629.8	2747.8	2795.0	2686.2	2371.5	2270.3
22.5°	2618.9	2614.3	2617.8	2628.7	2697.2	2813.9	2911.2	2857.7	2539.5	2436.0
25°	2987.1	2966.4	2931.3	2872.1	2854.8	2911.2	3012.4	3009.6	2716.7	2605.7
27.5°	3409.4	3406.0	3323.7	3181.0	3100.5	3078.6	3126.9	3157.4	2892.2	2773.7
30°	3813.9	3823.1	3712.0	3553.2	3405.4	3319.7	3275.9	3297.8	3070.5	2954.9
32.5°	4166.0	4175.8	4054.9	3869.1	3686.1	3582.6	3490.5	3436.5	3265.0	3139.0
35°	4463.4	4473.2	4334.5	4129.2	3934.1	3840.3	3736.2	3588.3	3460.6	3343.3
37.5°	4729.2	4726.3	4540.5	4333.4	4141.8	4067.6	4012.9	3775.3	3662.0	3548.6
40°	4886.3	4898.4	4739.6	4511.2	4325.3	4271.3	4267.8	4007.2	3894.4	3784.5
42.5°	4932.3	4953.6	4838.5	4651.0	4482.4	4423.7	4514.1	4258.0	4164.8	4057.8
45°	4849.5	4870.2	4817.8	4687.8	4589.4	4551.4	4725.8	4518.1	4453.6	4347.8
47.5°	4607.8	4633.7	4646.4	4618.8	4617.6	4656.2	4915.6	4791.9	4796.5	4688.4
50°	4140.1	4183.8	4300.0	4397.8	4549.1	4739.0	5100.3	5088.8	5183.2	5090.0
52.5°	3289.7	3351.9	3752.3	4019.8	4359.9	4723.5	5303.4	5565.2	5861.5	5725.1
55°	2643.6	2643.6	2969.3	3469.8	3990.5	4621.1	5392.0	5874.7	6323.5	6291.3
57.5°	2155.2	2181.1	2388.8	2831.2	3456.0	4377.1	5446.7	6069.2	6695.7	6672.1
60°	1330.2	1386.0	1778.3	2215.0	2847.9	3942.7	5412.1	6265.9	7147.3	7166.3
62.5°	749.1	769.8	944.7	1593.7	2214.5	3358.8	5148.1	6375.8	7725.0	7805.5
65°	517.2	527.6	594.9	991.9	1535.0	2674.1	4632.0	6307.4	8303.8	8466.6
67.5°	375.7	380.9	422.9	605.8	910.7	1938.9	3823.1	5962.2	8610.4	8882.5
70°	288.8	292.3	322.8	398.1	537.9	1196.7	2776.6	5275.8	8388.3	8713.4
72.5°	234.7	238.2	261.8	294.6	356.7	707.7	1682.8	4284.5	7408.0	7758.9
75°	197.9	202.5	223.8	245.1	279.6	454.5	789.4	2983.7	5570.9	5801.1
77.5°	109.9	101.3	181.8	203.1	235.9	287.7	369.4	1755.9	3120.0	3183.9
80°	68.5	70.8	144.4	163.4	181.2	145.0	169.1	676.0	1081.6	1027.5
82.5°	4.0	9.2	111.0	117.9	124.3	62.1	63.9	229.6	260.6	239.3
85°	0.0	0.0	50.6	40.8	43.1	17.8	18.4	53.5	35.1	38.0
87.5°	0.0	0.0	0.0	1.2	0.0	1.7	3.5	4.6	1.7	2.3
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°
1068.4	0°	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4
1123.0	2.5°	1082.8	1042.5	960.8	880.8	815.8	755.4	712.3	671.4	650.7	649.5
1195.5	5°	1115.6	1031.0	867.6	723.2	607.0	513.8	453.4	410.2	388.3	380.9
1284.7	7.5°	1161.6	1034.4	785.9	585.1	448.2	368.2	333.7	319.9	315.3	310.1
1385.4	10°	1219.7	1042.5	712.8	471.2	353.3	313.0	299.2	293.4	290.0	286.5
1498.7	12.5°	1284.7	1050.0	640.3	391.2	310.7	290.0	280.2	273.3	268.7	264.7
1615.0	15°	1348.0	1054.6	565.0	335.4	288.8	272.1	261.8	254.3	248.0	243.4
1728.9	17.5°	1410.7	1060.9	494.2	302.0	271.0	254.3	243.9	234.7	229.6	224.4
1848.5	20°	1480.3	1059.8	427.5	278.5	253.1	236.5	225.5	216.9	211.7	206.0
1975.1	22.5°	1544.8	1054.0	368.8	258.3	234.7	218.6	206.5	197.9	192.7	188.1
2104.6	25°	1619.0	1049.4	319.9	239.9	217.5	201.4	188.1	180.1	174.3	170.3
2234.6	27.5°	1690.3	1042.5	284.2	223.2	200.8	185.3	172.6	163.4	158.2	155.3
2368.6	30°	1760.5	1040.8	271.0	207.1	185.8	170.3	157.6	149.0	145.0	143.8
2515.9	32.5°	1845.1	1045.4	276.7	201.4	172.0	156.5	144.4	138.1	134.1	134.1
2679.9	35°	1935.4	1044.2	285.4	206.5	162.8	142.7	133.5	129.4	125.4	125.4
2861.7	37.5°	2048.8	1046.0	292.3	215.2	159.4	131.2	126.0	120.8	118.5	118.5
3060.8	40°	2217.9	1102.9	288.8	222.7	158.2	123.1	112.8	111.0	109.3	109.3
3285.7	42.5°	2425.0	1226.6	293.4	223.2	157.6	117.4	103.6	107.0	103.0	102.4
3539.4	45°	2651.7	1361.8	322.8	211.1	157.1	114.5	99.0	103.0	96.7	96.7
3833.4	47.5°	2876.7	1495.9	352.7	193.9	155.3	113.9	94.9	92.6	90.9	91.5
4216.6	50°	3186.8	1605.2	364.2	170.3	151.3	112.8	87.5	88.0	86.9	88.0
4756.8	52.5°	3524.5	1628.2	350.4	143.8	139.8	109.3	82.3	84.6	84.0	85.1
5137.1	55°	3735.1	1603.4	289.4	119.7	122.0	95.5	77.1	81.7	81.7	81.7
5508.8	57.5°	3952.5	1498.2	205.4	97.2	101.3	78.2	72.5	78.8	78.2	77.7
5956.4	60°	4109.0	1327.9	135.2	80.0	80.5	64.4	67.3	74.2	73.6	70.8
6417.8	62.5°	4225.8	1139.7	86.9	67.9	61.6	58.1	61.6	67.3	65.0	58.7
6809.0	65°	4212.6	879.1	66.7	58.1	50.6	50.6	53.5	58.7	51.8	41.4
6883.8	67.5°	3966.9	594.9	55.2	48.9	42.6	42.0	44.3	48.9	44.3	35.1
6500.7	70°	3527.9	388.9	44.3	38.0	33.9	31.1	35.7	42.0	37.4	28.2
5534.1	72.5°	2863.4	237.0	33.4	27.6	24.7	20.1	28.2	34.5	29.9	20.7
3848.4	75°	1852.6	120.8	23.0	17.8	13.2	12.1	20.7	25.9	20.7	12.7
1707.6	77.5°	708.8	50.6	12.7	8.1	6.9	5.8	11.5	15.5	8.6	2.9
330.8	80°	136.4	21.3	6.3	4.0	3.5	2.3	1.7	1.2	0.0	0.0
58.7	82.5°	23.6	6.9	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
11.5	85°	8.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	87.5°	2.9	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°
1068.4
648.4
379.7
309.0
285.4
263.5
242.8
223.8
205.4
187.6
169.7
155.3
143.3
134.1
125.4
118.5
109.3
101.8
96.7
91.5
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85.1
81.7
77.7
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