

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: P947300

Luminaire Tested: **GALN-SB2C-940-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947300  
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-SB2C-940-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

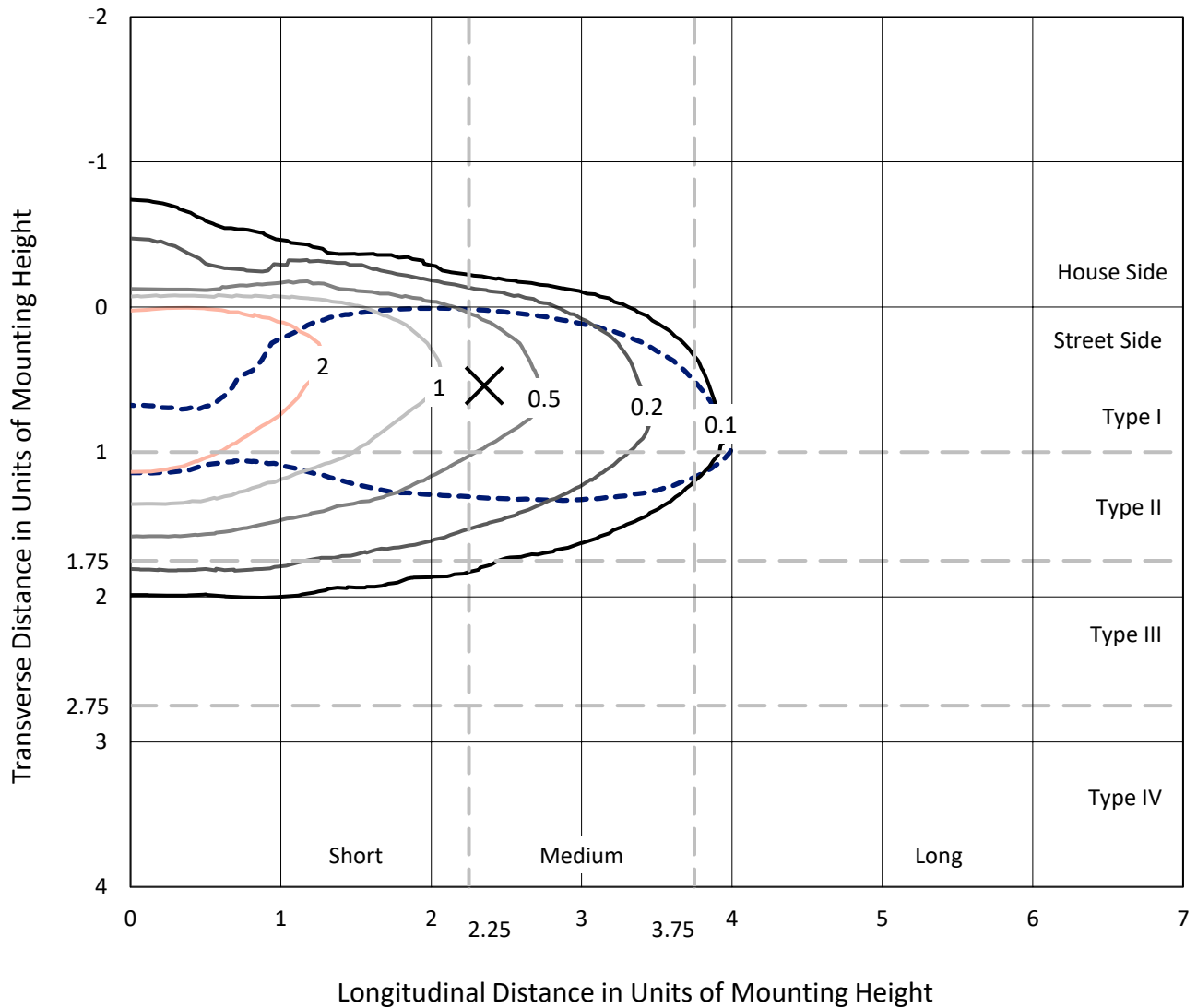
Lumens per Lamp: N/A  
Luminaire Lumens: 9189 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

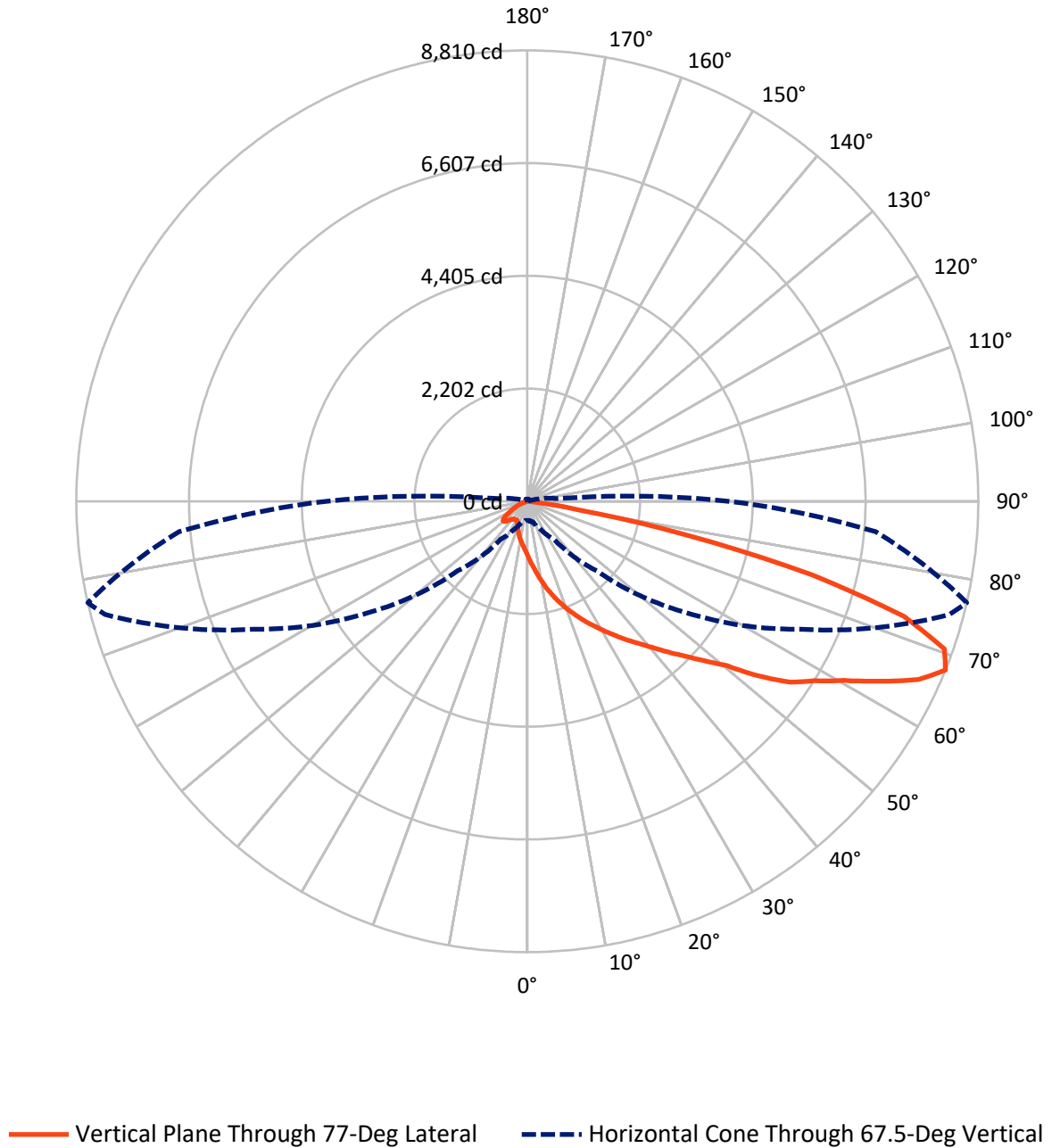
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	676.0	0.0	676.0
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	8513.0	0.0	8513.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	9189.0	0.0	9189.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	1.2
10°-20°	378.7	4.1
20°-30°	730.9	8.0
30°-40°	1268.8	13.8
40°-50°	1842.2	20.0
50°-60°	2115.6	23.0
60°-70°	1836.7	20.0
70°-80°	865.1	9.4
80°-90°	42.8	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°	9189.0	100.0
0°-180°	9189.0	100.0

**Coefficient of Utilization**



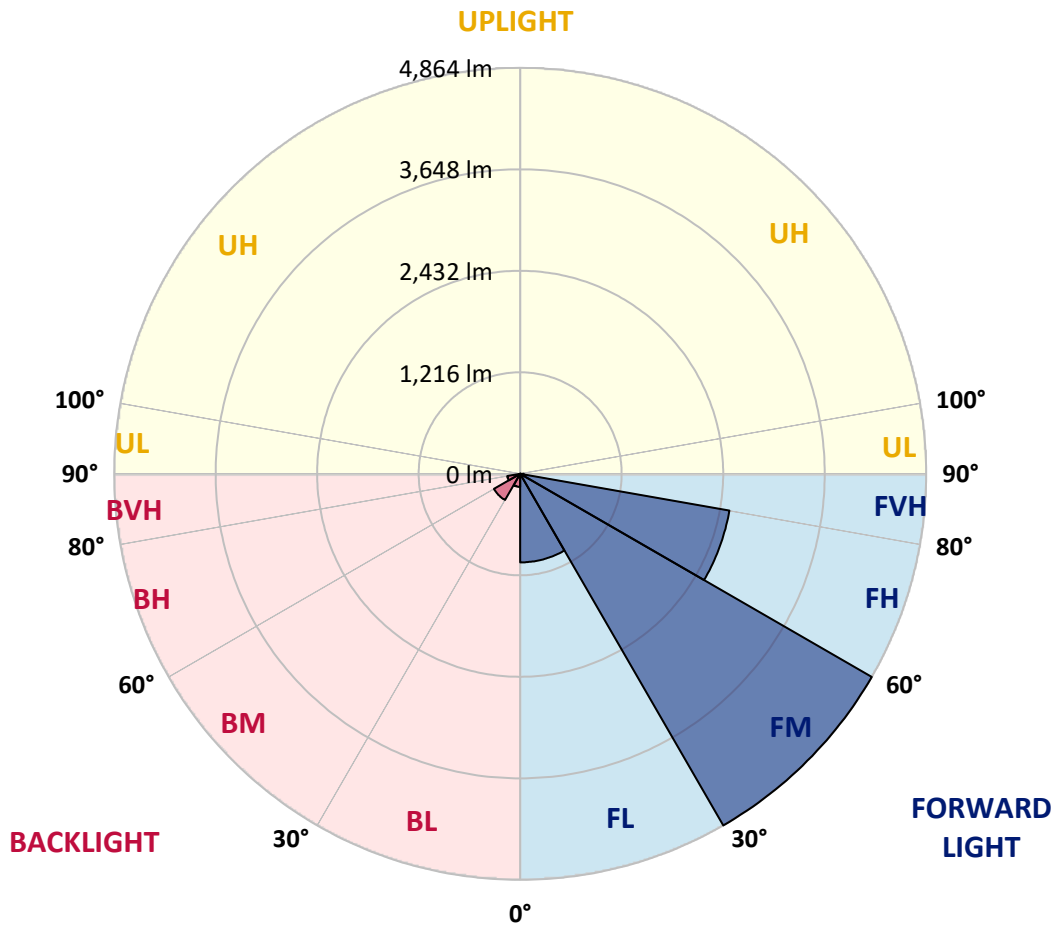
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.2	11.5			
FM (30°-60°)	4864.4	52.9			
FH (60°-80°)	2545.3	27.7			G2/5000
FVH (80°-90°)	42.0	0.5			G1/100
BL (0°-30°)	156.5	1.7	B1/500		
BM (30°-60°)	362.2	3.9	B1/1000		
BH (60°-80°)	156.5	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°	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1467.0	1476.2	1463.0	1437.9	1400.3	1375.7	1315.8	1259.3	1196.6	1176.6
5°	1788.3	1796.3	1781.5	1754.1	1703.8	1655.9	1577.2	1459.1	1336.4	1297.0
7.5°	2026.2	2030.8	2025.1	2000.0	1952.1	1897.9	1810.0	1670.2	1488.2	1444.8
10°	2197.4	2212.3	2210.6	2200.9	2168.9	2125.0	2031.4	1872.2	1658.2	1602.3
12.5°	2311.0	2327.5	2337.2	2358.9	2357.2	2329.2	2247.1	2078.7	1827.7	1762.1
15°	2344.1	2361.8	2398.9	2449.1	2493.6	2507.8	2450.2	2281.3	2014.3	1930.4
17.5°	2325.2	2352.6	2397.1	2476.5	2574.0	2638.5	2632.2	2477.0	2183.7	2087.9
20°	2366.9	2393.1	2428.0	2494.7	2608.3	2725.2	2772.0	2664.2	2352.1	2251.6
22.5°	2597.4	2592.9	2596.3	2607.1	2675.0	2790.9	2887.3	2834.2	2518.7	2416.0
25°	2962.6	2942.1	2907.3	2848.5	2831.4	2887.3	2987.7	2984.9	2694.4	2584.3
27.5°	3381.4	3378.0	3296.4	3154.9	3075.0	3053.3	3101.3	3131.5	2868.5	2750.9
30°	3782.6	3791.7	3681.6	3524.1	3377.5	3292.4	3249.1	3270.7	3045.4	2930.7
32.5°	4131.8	4141.5	4021.7	3837.4	3655.9	3553.2	3461.9	3408.3	3238.2	3113.3
35°	4426.8	4436.5	4299.0	4095.3	3901.8	3808.8	3705.6	3558.9	3432.2	3315.8
37.5°	4690.4	4687.6	4503.3	4297.9	4107.8	4034.2	3980.0	3744.4	3631.9	3519.5
40°	4846.2	4858.2	4700.7	4474.2	4289.9	4236.2	4232.8	3974.3	3862.5	3753.5
42.5°	4891.9	4913.0	4798.8	4612.8	4445.6	4387.4	4477.0	4223.1	4130.7	4024.5
45°	4809.7	4830.2	4778.3	4649.3	4551.8	4514.1	4687.0	4481.0	4417.1	4312.1
47.5°	4570.0	4595.7	4608.3	4580.9	4579.7	4618.0	4875.3	4752.6	4757.2	4649.9
50°	4106.1	4149.5	4264.8	4361.8	4511.8	4700.1	5058.5	5047.1	5140.6	5048.2
52.5°	3262.8	3324.4	3721.5	3986.9	4324.1	4684.7	5259.9	5519.5	5813.4	5678.2
55°	2622.0	2622.0	2944.9	3441.4	3957.8	4583.2	5347.8	5826.5	6271.6	6239.6
57.5°	2137.5	2163.2	2369.2	2808.0	3427.7	4341.2	5402.0	6019.4	6640.8	6617.4
60°	1319.3	1374.6	1763.8	2196.9	2824.5	3910.4	5367.7	6214.5	7088.7	7107.5
62.5°	742.9	763.5	936.9	1580.6	2196.3	3331.2	5105.8	6323.5	7661.6	7741.5
65°	513.0	523.3	590.0	983.7	1522.4	2652.2	4594.0	6255.6	8235.6	8397.1
67.5°	372.6	377.7	419.4	600.9	903.3	1923.0	3791.7	5913.3	8539.8	8809.7
70°	286.4	289.9	320.1	394.9	533.5	1186.9	2753.8	5232.5	8319.5	8641.9
72.5°	232.8	236.2	259.6	292.2	353.8	701.9	1669.0	4249.3	7347.2	7695.3
75°	196.3	200.9	222.0	243.1	277.3	450.8	782.9	2959.2	5525.2	5753.5
77.5°	109.0	100.4	180.3	201.4	234.0	285.3	366.3	1741.5	3094.4	3157.8
80°	67.9	70.2	143.2	162.1	179.7	143.8	167.8	670.5	1072.8	1019.1
82.5°	4.0	9.1	110.1	117.0	123.3	61.6	63.3	227.7	258.5	237.4
85°	0.0	0.0	50.2	40.5	42.8	17.7	18.3	53.1	34.8	37.7
87.5°	0.0	0.0	0.0	1.1	0.0	1.7	3.4	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°
1059.6	0°	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6
1113.8	2.5°	1073.9	1033.9	952.9	873.6	809.1	749.2	706.4	665.9	645.4	644.2
1185.7	5°	1106.4	1022.5	860.5	717.3	602.0	509.6	449.6	406.8	385.2	377.7
1274.2	7.5°	1152.1	1026.0	779.5	580.3	444.5	365.2	331.0	317.3	312.7	307.6
1374.0	10°	1209.7	1033.9	707.0	467.3	350.4	310.4	296.7	291.0	287.6	284.2
1486.4	12.5°	1274.2	1041.4	635.1	388.0	308.1	287.6	277.9	271.0	266.5	262.5
1601.7	15°	1336.9	1045.9	560.3	332.7	286.4	269.9	259.6	252.2	245.9	241.4
1714.7	17.5°	1399.1	1052.2	490.2	299.6	268.8	252.2	241.9	232.8	227.7	222.5
1833.4	20°	1468.2	1051.1	424.0	276.2	251.1	234.5	223.7	215.1	210.0	204.3
1958.9	22.5°	1532.1	1045.4	365.8	256.2	232.8	216.8	204.8	196.3	191.2	186.6
2087.3	25°	1605.7	1040.8	317.3	237.9	215.7	199.7	186.6	178.6	172.9	168.9
2216.3	27.5°	1676.5	1033.9	281.9	221.4	199.1	183.7	171.2	162.1	156.9	154.1
2349.2	30°	1746.1	1032.2	268.8	205.4	184.3	168.9	156.3	147.8	143.8	142.7
2495.3	32.5°	1830.0	1036.8	274.5	199.7	170.6	155.2	143.2	136.9	133.0	133.0
2657.9	35°	1919.5	1035.7	283.0	204.8	161.5	141.5	132.4	128.4	124.4	124.4
2838.2	37.5°	2031.9	1037.4	289.9	213.4	158.1	130.1	125.0	119.8	117.5	117.5
3035.7	40°	2199.7	1093.9	286.4	220.8	156.9	122.1	111.8	110.1	108.4	108.4
3258.8	42.5°	2405.1	1216.5	291.0	221.4	156.3	116.4	102.7	106.1	102.1	101.6
3510.4	45°	2630.0	1350.6	320.1	209.4	155.8	113.6	98.1	102.1	95.9	95.9
3802.0	47.5°	2853.1	1483.6	349.8	192.3	154.1	113.0	94.2	91.9	90.2	90.7
4182.0	50°	3160.6	1592.0	361.2	168.9	150.1	111.8	86.7	87.3	86.2	87.3
4717.8	52.5°	3495.6	1614.8	347.5	142.7	138.7	108.4	81.6	83.9	83.3	84.5
5095.0	55°	3704.4	1590.3	287.0	118.7	121.0	94.7	76.5	81.0	81.0	81.0
5463.6	57.5°	3920.1	1485.9	203.7	96.4	100.4	77.6	71.9	78.2	77.6	77.0
5907.5	60°	4075.3	1317.0	134.1	79.3	79.9	63.9	66.8	73.6	73.0	70.2
6365.2	62.5°	4191.1	1130.4	86.2	67.3	61.1	57.6	61.1	66.8	64.5	58.2
6753.2	65°	4178.0	871.9	66.2	57.6	50.2	50.2	53.1	58.2	51.4	41.1
6827.4	67.5°	3934.4	590.0	54.8	48.5	42.2	41.7	43.9	48.5	43.9	34.8
6447.3	70°	3499.0	385.7	43.9	37.7	33.7	30.8	35.4	41.7	37.1	28.0
5488.7	72.5°	2839.9	235.1	33.1	27.4	24.5	20.0	28.0	34.2	29.7	20.5
3816.8	75°	1837.4	119.8	22.8	17.7	13.1	12.0	20.5	25.7	20.5	12.6
1693.6	77.5°	703.0	50.2	12.6	8.0	6.8	5.7	11.4	15.4	8.6	2.9
328.1	80°	135.2	21.1	6.3	4.0	3.4	2.3	1.7	1.1	0.0	0.0
58.2	82.5°	23.4	6.8	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
11.4	85°	8.0	1.1	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°  
1059.6  
643.1  
376.6  
306.4  
283.0  
261.3  
240.8  
222.0  
203.7  
186.0  
168.3  
154.1  
142.1  
133.0  
124.4  
117.5  
108.4  
101.0  
95.9  
90.7  
87.3  
84.5  
81.0  
77.0  
70.2  
57.1  
39.9  
33.7  
26.8  
19.4  
10.8  
2.3  
0.0  
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0.0

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