

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: P949815

Luminaire Tested: **GALN-SB4B-950-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-950-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

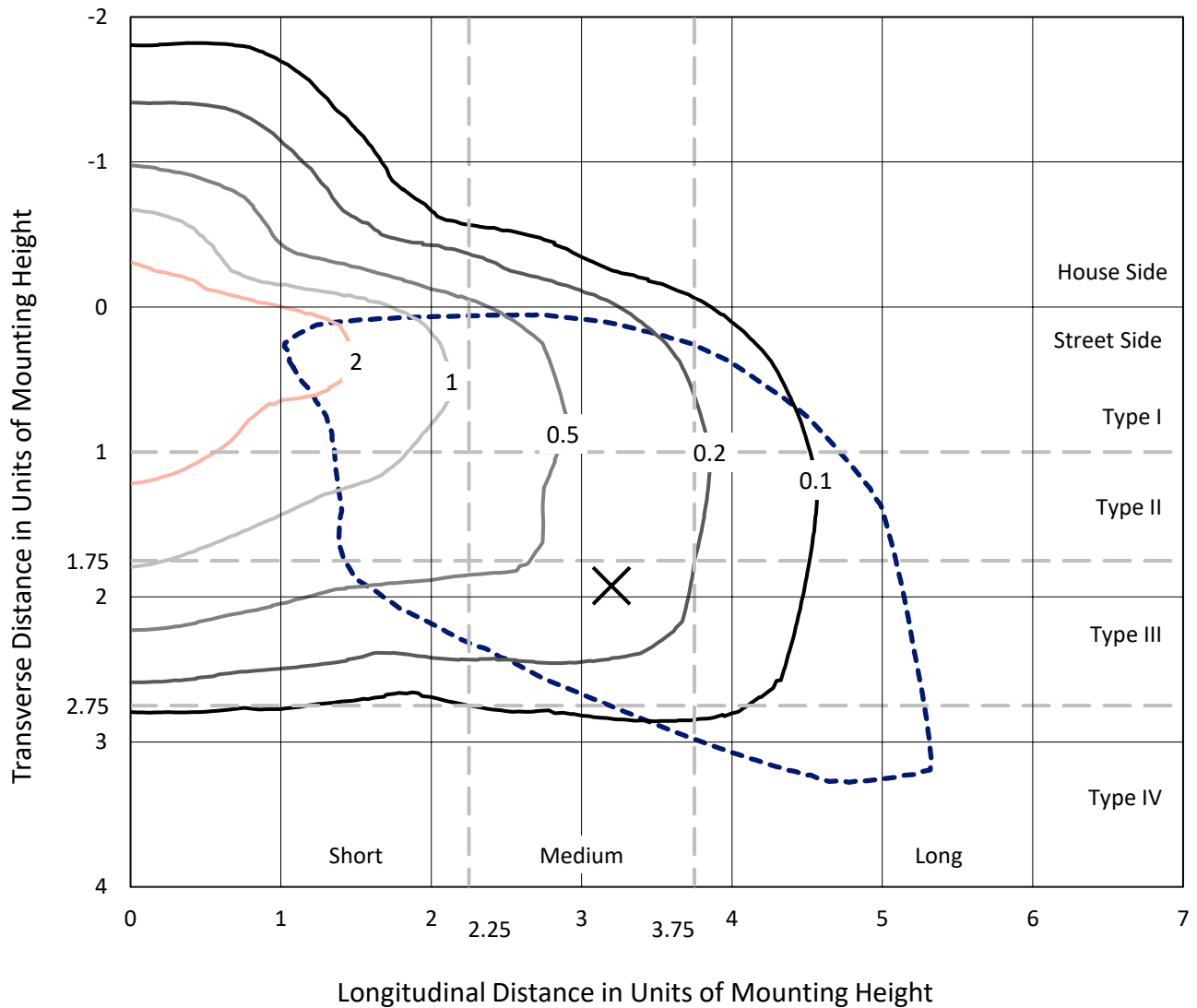
Lumens per Lamp: N/A  
Luminaire Lumens: 15344 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

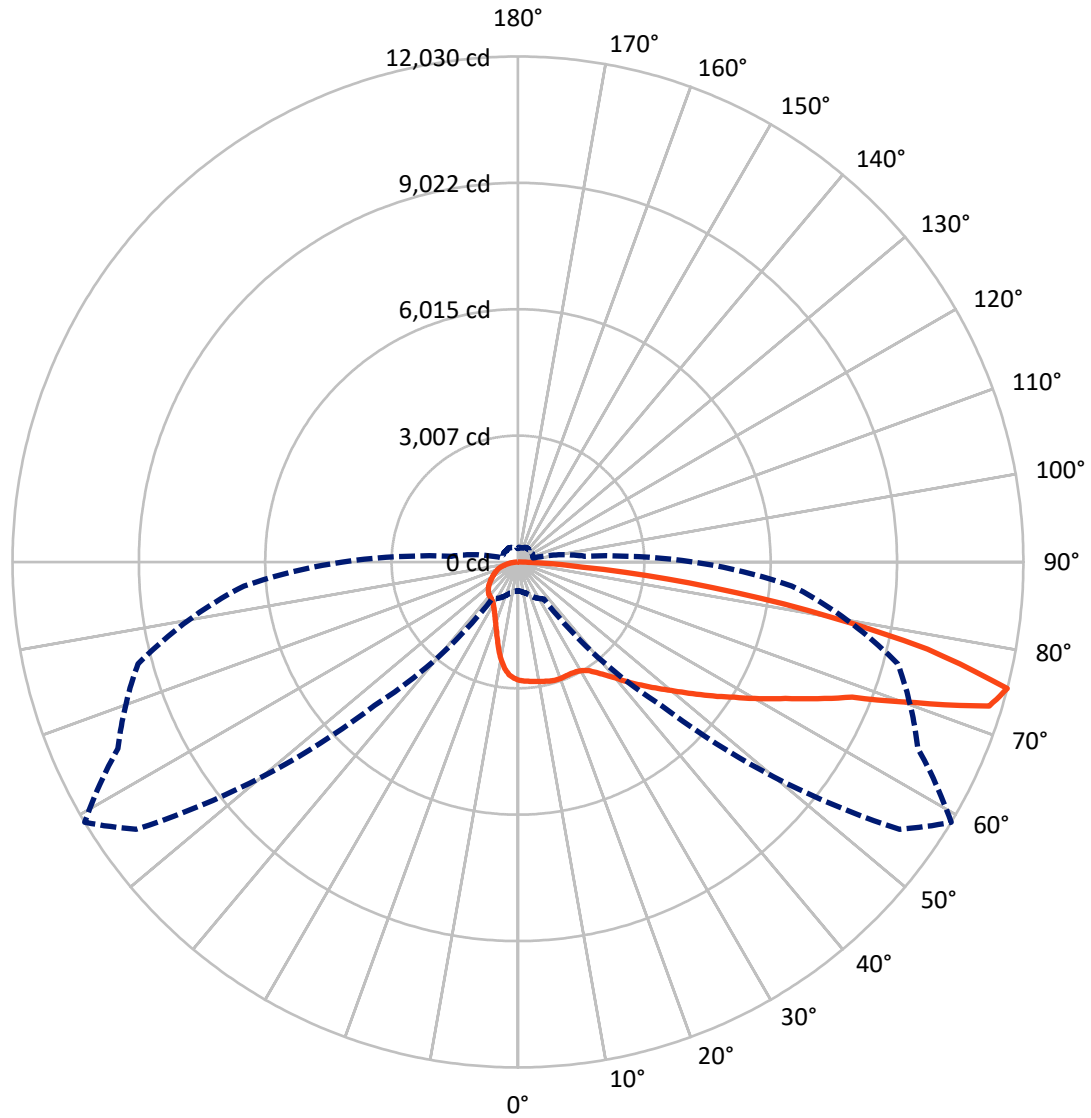
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2877.9	0.0	2877.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	12466.1	0.0	12466.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	15344.0	0.0	15344.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.5	1.6
10°-20°	645.5	4.2
20°-30°	980.4	6.4
30°-40°	1457.4	9.5
40°-50°	2167.4	14.1
50°-60°	2942.0	19.2
60°-70°	3591.7	23.4
70°-80°	2818.7	18.4
80°-90°	488.3	3.2
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°	15344.0	100.0
0°-180°	15344.0	100.0

**Coefficient of Utilization**



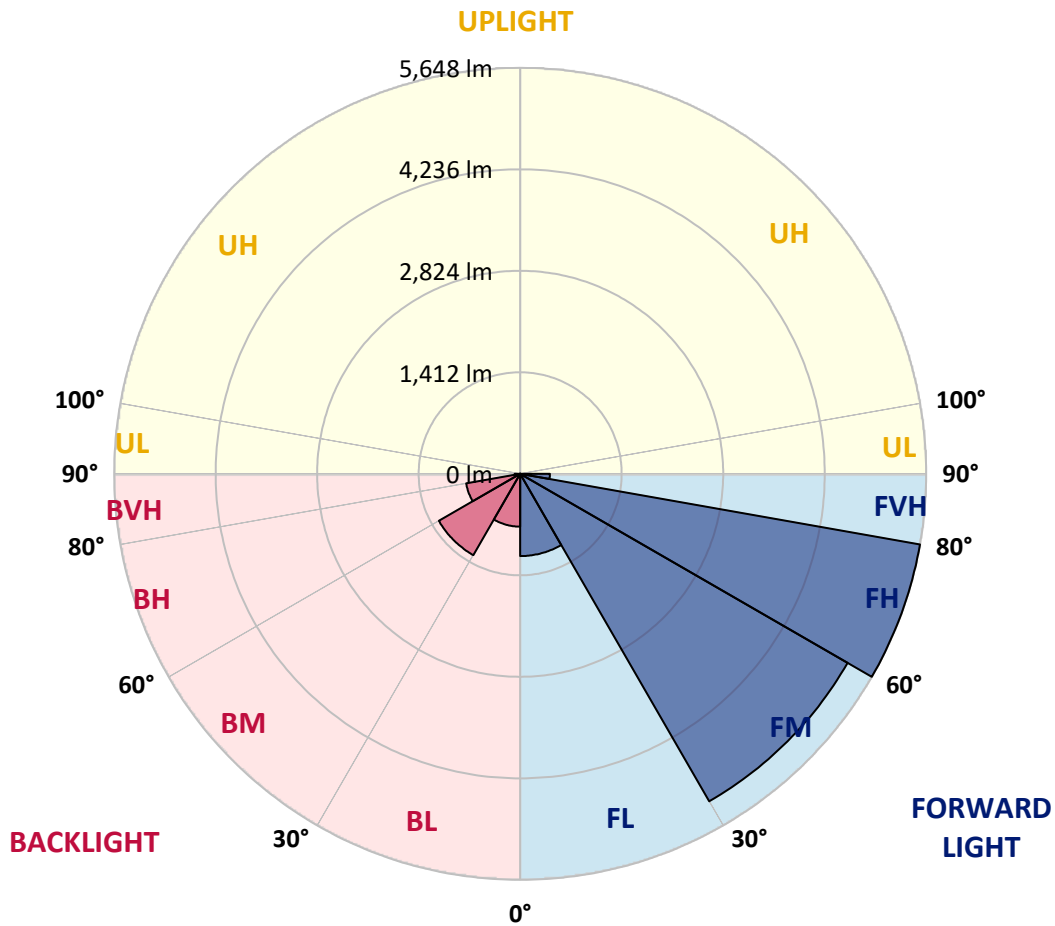
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.1	7.5			
FM (30°-60°)	5260.6	34.3			
FH (60°-80°)	5648.0	36.8			G3/7500
FVH (80°-90°)	413.5	2.7			G3/500
BL (0°-30°)	734.4	4.8	B2/1000		
BM (30°-60°)	1306.3	8.5	B2/2500		
BH (60°-80°)	762.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	74.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2840.3	2830.4	2840.3	2836.2	2834.5	2831.2	2832.0	2837.8	2834.5	2838.6
5°	2821.3	2815.5	2825.4	2823.0	2833.7	2835.3	2846.1	2852.7	2856.8	2857.6
7.5°	2789.9	2784.2	2798.2	2809.8	2832.9	2839.5	2861.8	2872.5	2878.3	2888.2
10°	2675.2	2672.7	2707.4	2751.1	2805.6	2839.5	2873.3	2891.5	2900.6	2927.0
12.5°	2472.2	2475.5	2520.9	2605.0	2714.0	2823.0	2886.5	2912.9	2927.0	2960.0
15°	2278.2	2277.4	2326.9	2416.9	2569.6	2750.3	2893.1	2938.5	2962.5	3011.2
17.5°	2165.9	2162.6	2197.3	2265.8	2407.8	2638.9	2876.6	2952.6	3003.7	3064.8
20°	2145.3	2138.7	2156.8	2190.7	2291.4	2516.7	2833.7	2952.6	3036.7	3116.0
22.5°	2220.4	2209.7	2202.2	2198.1	2242.7	2416.0	2785.0	2942.6	3085.4	3189.5
25°	2371.5	2354.9	2317.0	2279.8	2266.6	2370.6	2742.1	2940.2	3158.1	3288.5
27.5°	2615.8	2595.1	2518.4	2429.2	2349.2	2393.7	2723.1	2955.0	3238.2	3393.3
30°	2918.7	2896.4	2799.8	2662.8	2519.2	2479.6	2747.0	2998.8	3340.5	3532.8
32.5°	3190.3	3165.5	3083.0	2943.5	2749.5	2628.2	2823.0	3082.1	3501.5	3726.8
35°	3431.3	3402.4	3328.1	3199.4	3031.8	2837.0	2960.0	3229.9	3730.1	4042.1
37.5°	3667.4	3633.5	3552.6	3416.4	3299.2	3115.2	3149.0	3419.7	4033.9	4425.1
40°	3931.5	3882.8	3784.6	3650.0	3536.1	3441.2	3397.5	3652.5	4342.6	4852.7
42.5°	4187.4	4141.2	4024.0	3909.2	3766.4	3739.2	3685.5	3924.9	4680.2	5322.4
45°	4463.1	4407.8	4265.8	4120.5	4030.6	3937.3	3964.5	4197.3	5011.2	5801.1
47.5°	4721.4	4659.5	4492.0	4330.2	4280.7	4104.0	4220.4	4496.9	5355.4	6286.5
50°	4860.9	4799.9	4660.4	4514.3	4475.5	4309.6	4497.8	4826.3	5716.1	6770.2
52.5°	4977.3	4911.3	4728.9	4648.0	4636.4	4533.2	4839.5	5202.7	6076.8	7197.7
55°	5101.1	5027.7	4794.9	4722.3	4775.1	4784.2	5244.8	5629.4	6458.1	7614.6
57.5°	5243.9	5150.7	4858.5	4785.0	4910.5	5078.0	5710.3	6071.8	6832.9	8000.9
60°	5378.5	5284.4	4980.6	4884.9	5056.6	5418.9	6244.4	6607.5	7257.2	8345.1
62.5°	5404.9	5327.3	5078.0	5077.2	5254.7	5816.8	6876.6	7148.2	7627.8	8685.1
65°	4947.6	4898.9	4751.2	5069.8	5538.6	6389.6	7580.7	7839.9	8099.1	8982.3
67.5°	3765.6	3772.2	3761.5	4376.4	5309.1	7212.6	8600.1	8580.3	8681.0	9315.8
70°	1721.8	1760.6	2013.2	3021.1	4253.4	7307.5	10285.6	10028.9	9411.5	9747.5
72.5°	930.3	960.0	1063.2	1463.5	2557.2	6496.9	11545.2	11727.7	10383.0	10038.0
75°	682.6	699.1	770.9	930.3	1073.9	4828.7	11093.7	12029.8	10504.4	9360.3
77.5°	510.9	518.4	577.0	737.1	549.7	2545.6	8864.3	9962.9	8992.2	7690.5
80°	370.6	378.9	422.6	553.0	385.5	931.1	6086.7	6993.0	6158.5	4902.2
82.5°	255.9	259.2	278.2	376.4	269.1	361.5	3453.6	4100.7	3437.9	1720.2
85°	154.4	158.5	166.7	219.6	152.7	171.7	1490.7	1541.9	1027.7	411.1
87.5°	63.6	67.7	74.3	92.4	60.3	47.9	246.0	308.7	192.3	120.5
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°
2816.4	0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2824.6	2.5°	2820.5	2814.7	2799.0	2777.6	2757.8	2733.0	2722.3	2713.2	2704.9	2689.2
2846.9	5°	2837.8	2822.1	2780.0	2725.6	2663.7	2596.0	2529.9	2484.5	2445.7	2416.9
2872.5	7.5°	2864.2	2834.5	2757.8	2646.3	2504.3	2359.1	2227.8	2134.6	2064.4	2038.8
2908.8	10°	2891.5	2856.0	2722.3	2525.8	2280.7	2057.0	1882.8	1787.0	1730.9	1712.8
2951.7	12.5°	2923.7	2871.7	2667.0	2358.2	2030.6	1785.4	1633.5	1577.4	1548.5	1538.6
3004.6	15°	2970.7	2884.9	2583.6	2148.6	1792.0	1587.3	1489.1	1450.3	1435.4	1434.6
3059.0	17.5°	3006.2	2887.3	2454.0	1924.1	1608.8	1467.6	1386.7	1371.9	1381.8	1396.6
3112.7	20°	3045.8	2865.1	2284.0	1719.4	1480.0	1362.8	1328.9	1338.8	1362.8	1384.2
3183.7	22.5°	3073.9	2824.6	2078.4	1560.1	1368.6	1302.5	1300.9	1321.5	1334.7	1345.4
3267.0	25°	3098.7	2756.1	1860.5	1426.3	1276.9	1266.2	1284.4	1277.8	1268.7	1277.8
3350.4	27.5°	3116.8	2648.0	1665.7	1309.1	1212.6	1241.4	1230.7	1215.9	1215.0	1220.0
3448.6	30°	3111.0	2503.5	1505.6	1197.7	1167.2	1195.2	1169.6	1167.2	1164.7	1167.2
3596.4	32.5°	3111.0	2339.3	1382.6	1120.9	1138.3	1127.5	1125.1	1119.3	1109.4	1108.5
3797.0	35°	3128.4	2175.0	1276.9	1079.7	1114.3	1088.7	1090.4	1076.4	1055.7	1045.8
4062.8	37.5°	3163.9	2042.9	1172.1	1059.8	1072.2	1071.4	1064.8	1040.9	1004.5	973.2
4394.6	40°	3249.7	2004.1	1100.3	1050.8	1052.4	1062.3	1045.0	998.8	916.2	865.0
4731.3	42.5°	3384.3	2069.3	1084.6	1028.5	1039.2	1049.1	1015.3	908.0	849.4	818.8
5084.6	45°	3555.1	2183.3	1118.5	996.3	1007.8	1025.2	924.5	873.3	846.9	847.7
5434.6	47.5°	3771.4	2302.9	1181.2	968.2	962.4	972.4	864.2	832.9	796.5	805.6
5770.6	50°	4021.5	2424.3	1240.6	930.3	912.1	879.9	825.4	795.7	749.5	728.0
6095.0	52.5°	4292.2	2541.5	1264.6	884.0	857.6	820.5	799.0	762.7	706.6	671.1
6401.2	55°	4548.9	2648.0	1238.1	828.7	803.1	774.3	770.9	748.7	688.4	638.9
6673.6	57.5°	4791.6	2737.1	1172.1	772.6	747.8	730.5	752.8	742.1	666.1	602.6
6931.1	60°	4997.1	2798.2	1076.4	715.6	698.3	689.2	723.1	719.8	634.8	563.8
7162.2	62.5°	5160.6	2822.1	970.7	661.2	657.0	640.5	681.8	681.8	595.1	525.8
7365.3	65°	5288.5	2799.0	863.4	607.5	615.8	591.0	631.5	626.5	553.0	492.0
7598.9	67.5°	5401.6	2723.1	744.5	554.7	573.7	542.3	578.6	567.1	506.8	458.1
7801.1	70°	5451.9	2546.4	609.2	501.9	525.0	494.4	525.8	504.3	454.8	421.8
7579.1	72.5°	5047.5	2116.4	479.6	446.6	466.4	441.6	468.8	444.1	398.7	383.8
6544.8	75°	4175.8	1588.1	369.0	386.3	401.2	382.2	400.3	382.2	340.9	351.6
4834.5	77.5°	3032.6	1072.2	282.3	322.7	329.3	319.4	335.1	314.5	277.3	274.9
2409.4	80°	1508.1	628.1	221.2	255.1	252.6	246.0	264.1	254.2	222.9	236.1
650.4	82.5°	436.7	269.1	161.0	179.1	174.2	175.8	189.0	194.0	290.6	288.1
202.2	85°	137.0	105.7	96.6	99.9	94.9	97.4	111.4	221.2	204.7	119.7
62.7	87.5°	35.5	36.3	23.9	25.6	26.4	31.4	35.5	134.5	64.4	42.1
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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<u>180°</u>
2816.4
2681.8
2392.9
1994.2
1684.7
1541.1
1437.9
1402.4
1391.7
1351.2
1283.5
1228.2
1176.2
1119.3
1055.7
983.9
871.7
818.8
851.8
828.7
733.8
670.2
638.9
599.3
561.3
523.3
488.7
454.8
415.2
371.4
<i>321.1</i>
262.5
233.6
294.7
129.6
44.6
0.0

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