

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: P949805

Luminaire Tested: **GALN-SB4B-940-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949805  
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-SB4B-940-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

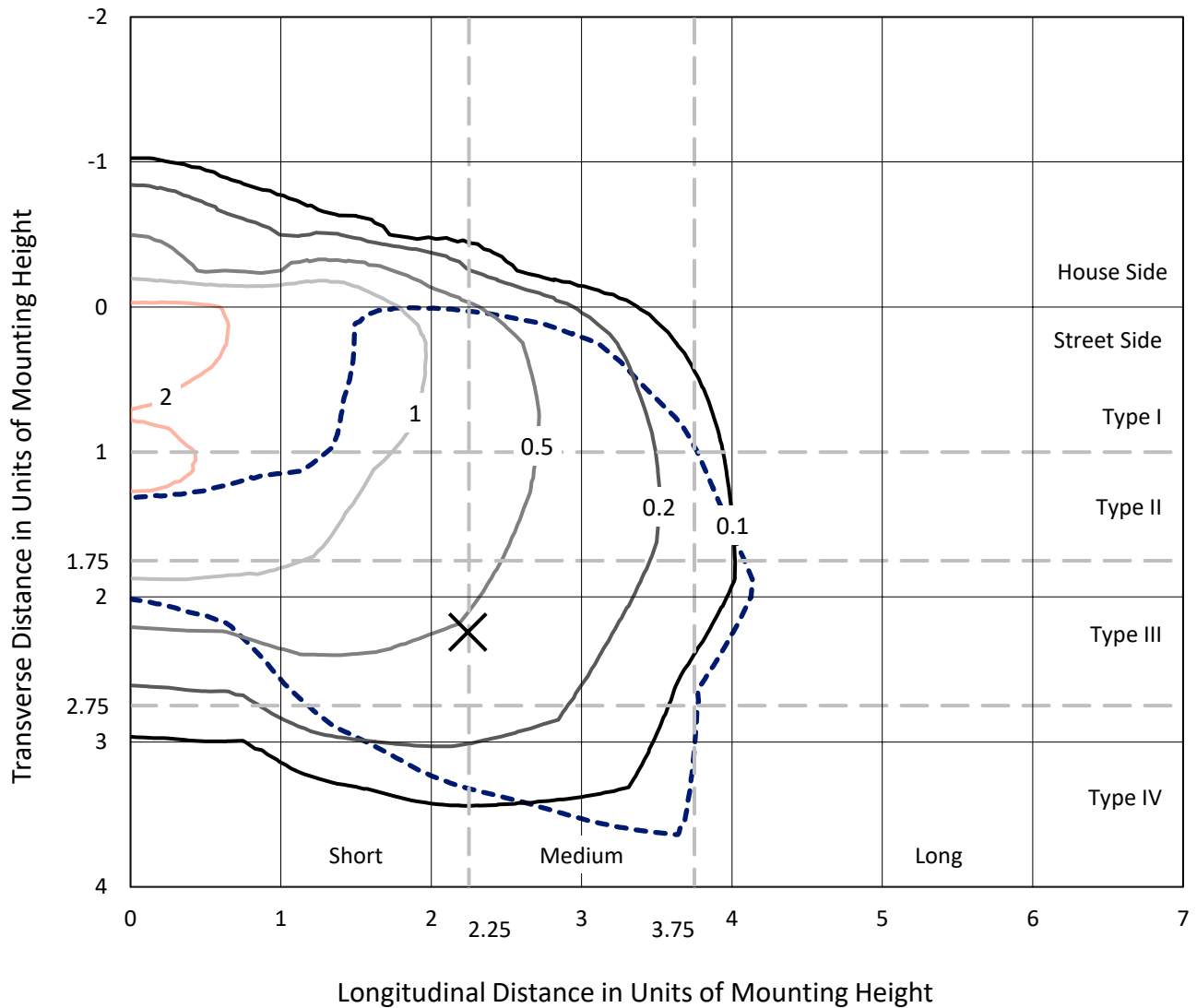
Lumens per Lamp: N/A  
Luminaire Lumens: 12597 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

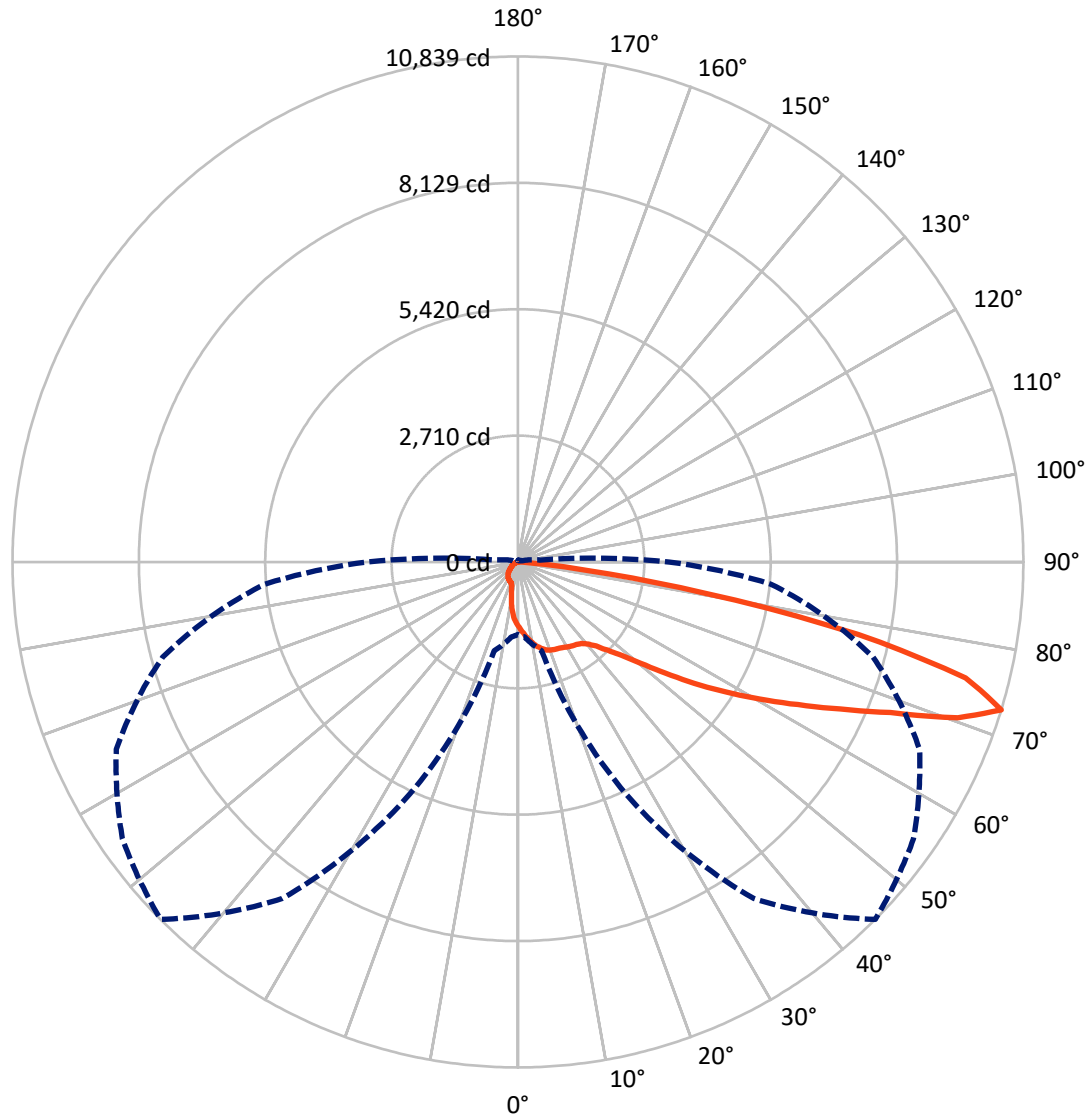
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1323.6	0.0	1323.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	11273.4	0.0	11273.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	12597.0	0.0	12597.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.0	1.0
10°-20°	380.0	3.0
20°-30°	624.0	5.0
30°-40°	885.0	7.0
40°-50°	1462.9	11.6
50°-60°	2627.9	20.9
60°-70°	3648.9	29.0
70°-80°	2646.8	21.0
80°-90°	191.4	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°	12597.0	100.0
0°-180°	12597.0	100.0

**Coefficient of Utilization**



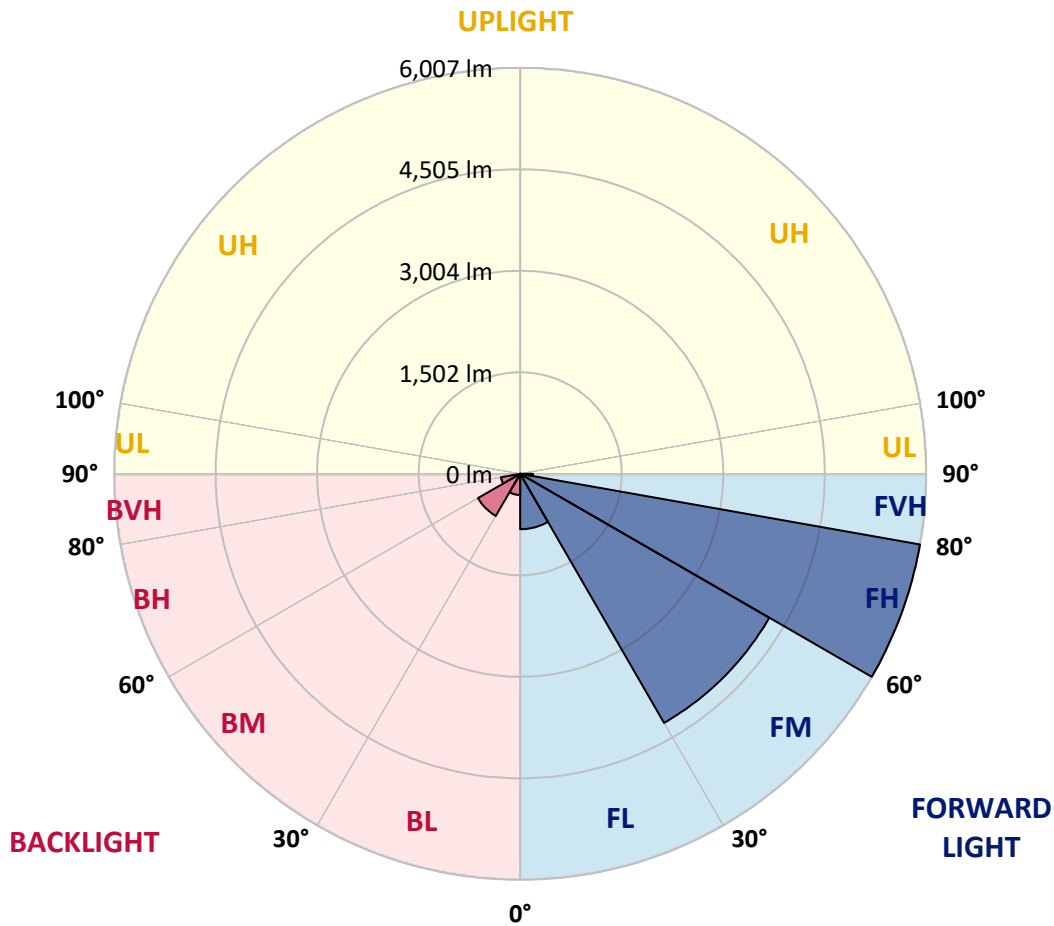
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.6	6.5			
FM (30°-60°)	4255.9	33.8			
FH (60°-80°)	6007.1	47.7			G3/7500
FVH (80°-90°)	189.8	1.5			G2/225
BL (0°-30°)	313.5	2.5	B1/500		
BM (30°-60°)	719.9	5.7	B1/1000		
BH (60°-80°)	288.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0
2.5°	1507.3	1509.9	1508.1	1497.8	1480.6	1471.2	1466.0	1448.8	1437.6	1417.9
5°	1645.7	1656.0	1650.0	1629.4	1596.7	1573.5	1566.6	1531.4	1499.5	1462.6
7.5°	1792.7	1797.9	1786.7	1760.1	1716.2	1676.7	1670.7	1621.6	1570.9	1514.2
10°	1920.0	1926.0	1908.8	1870.1	1820.3	1771.3	1762.7	1708.5	1648.3	1578.6
12.5°	2026.6	2032.6	2010.3	1963.9	1908.8	1858.1	1849.5	1792.7	1726.5	1649.2
15°	2107.4	2118.6	2088.5	2038.7	1979.3	1928.6	1924.3	1868.4	1803.9	1717.9
17.5°	2154.7	2165.9	2137.5	2077.4	2026.6	1983.6	1978.5	1932.0	1871.9	1789.3
20°	2162.5	2172.8	2142.7	2090.2	2048.1	2013.7	2011.1	1977.6	1933.8	1854.7
22.5°	2139.3	2152.2	2124.6	2082.5	2053.3	2035.2	2031.8	2012.9	1987.9	1920.9
25°	2115.2	2125.5	2104.9	2067.9	2052.4	2050.7	2053.3	2049.8	2044.7	1987.9
27.5°	2113.5	2124.6	2101.4	2066.2	2057.6	2075.6	2078.2	2094.5	2098.8	2049.0
30°	2128.1	2135.8	2113.5	2076.5	2072.2	2113.5	2114.3	2143.6	2150.4	2100.6
32.5°	2159.9	2168.5	2146.1	2092.0	2085.9	2143.6	2146.1	2184.8	2196.0	2155.6
35°	2234.7	2245.0	2219.2	2135.0	2113.5	2171.9	2179.7	2225.2	2247.6	2214.1
37.5°	2421.3	2391.2	2355.9	2221.8	2176.2	2216.6	2229.5	2282.9	2322.4	2283.7
40°	2884.7	2790.2	2680.1	2369.7	2286.3	2312.1	2322.4	2375.7	2429.9	2392.0
42.5°	3580.3	3468.6	3291.4	2710.2	2452.2	2465.1	2472.9	2519.3	2595.8	2565.7
45°	4200.3	4159.9	3979.3	3291.4	2762.6	2699.0	2708.5	2732.5	2845.2	2834.0
47.5°	4676.6	4653.4	4514.1	3958.7	3287.1	2985.3	3012.0	3023.2	3185.7	3225.2
50°	5042.9	5034.3	4909.6	4551.9	3972.4	3407.5	3417.0	3392.9	3636.2	3734.2
52.5°	5388.6	5417.8	5325.8	5103.1	4704.1	3960.4	3958.7	3845.2	4173.6	4321.5
55°	5700.7	5711.0	5720.5	5665.4	5440.1	4589.8	4573.4	4387.7	4797.0	4950.0
57.5°	5993.9	5998.2	6082.4	6195.1	6206.3	5265.6	5235.5	5012.8	5478.0	5587.2
60°	6190.8	6210.6	6388.5	6701.5	6838.2	5962.9	5946.6	5719.6	6171.0	6221.7
62.5°	5907.0	6027.4	6476.2	7097.0	7435.0	6735.9	6728.2	6514.9	6900.1	6858.9
65°	4781.5	4985.3	5774.6	7364.4	8020.5	7599.2	7610.4	7383.4	7649.1	7514.9
67.5°	3344.7	3559.7	4493.5	7385.9	8674.8	8612.9	8677.4	8321.4	8444.4	8143.5
70°	2312.9	2423.9	3031.8	6923.4	9184.7	10009.3	10007.6	9473.6	9235.4	8429.8
72.5°	1555.4	1613.0	1969.0	5492.6	8809.8	10839.0	10789.2	10354.1	9502.0	7883.8
75°	656.1	698.2	911.4	3086.8	6969.8	9916.4	9781.4	9150.3	8442.7	6208.0
77.5°	208.1	226.1	359.4	1104.9	3839.1	7453.9	7311.1	5714.4	5658.5	3114.3
80°	98.9	115.2	202.1	443.7	1510.7	4054.1	4034.3	2592.4	2434.2	840.9
82.5°	43.0	50.7	111.8	237.3	675.8	1446.2	1475.5	882.2	730.0	319.0
85°	13.8	18.1	51.6	109.2	285.5	359.4	355.1	209.8	294.1	173.7
87.5°	0.0	0.0	17.2	24.9	29.2	20.6	23.2	18.1	81.7	48.2
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°
1380.0	0°	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0	1380.0
1397.2	2.5°	1386.9	1373.1	1349.1	1326.7	1306.9	1287.2	1275.1	1257.9	1256.2	1256.2
1419.6	5°	1396.4	1374.0	1331.0	1285.4	1233.0	1183.1	1133.3	1085.1	1069.6	1058.5
1455.7	7.5°	1423.9	1388.6	1320.7	1233.9	1134.1	1024.9	948.4	865.8	834.0	816.8
1503.8	10°	1463.4	1415.3	1312.1	1159.9	998.3	849.5	740.3	650.9	616.5	601.9
1556.3	12.5°	1507.3	1448.0	1296.6	1067.9	849.5	671.5	564.9	523.6	518.5	518.5
1619.1	15°	1559.7	1487.5	1270.0	959.6	693.9	531.4	493.5	495.3	500.4	503.9
1680.1	17.5°	1613.9	1529.6	1227.8	838.3	556.3	478.1	478.9	481.5	485.8	489.2
1746.3	20°	1672.4	1571.8	1171.9	709.4	477.2	462.6	465.2	467.7	471.2	472.9
1808.2	22.5°	1735.1	1611.3	1105.7	583.0	450.6	449.7	450.6	453.1	457.4	457.4
1880.4	25°	1802.2	1655.2	1030.1	491.0	436.8	436.8	438.5	440.2	443.7	443.7
1950.1	27.5°	1871.0	1695.6	950.1	442.8	424.8	423.9	423.9	426.5	428.2	429.1
2018.9	30°	1946.7	1742.9	870.1	432.5	415.3	411.0	408.4	410.1	411.9	412.7
2091.1	32.5°	2024.0	1788.4	798.8	436.8	405.8	398.1	389.5	387.8	387.8	391.2
2165.9	35°	2110.0	1838.3	743.8	451.4	400.7	379.2	365.4	357.7	358.5	363.7
2255.3	37.5°	2213.2	1898.5	703.3	464.3	397.2	357.7	335.3	325.9	319.9	325.9
2378.3	40°	2348.2	1987.1	674.1	474.6	392.9	332.8	302.7	287.2	276.0	279.4
2569.2	42.5°	2546.8	2126.4	662.9	475.5	383.5	303.5	269.1	248.5	232.2	233.0
2856.4	45°	2825.4	2346.5	720.5	464.3	362.8	271.7	233.9	206.4	196.0	193.5
3285.4	47.5°	3207.2	2667.2	853.8	441.1	332.8	240.8	199.5	176.3	168.5	164.2
3848.6	50°	3718.8	3079.1	1001.7	415.3	302.7	211.5	171.1	156.5	151.3	147.0
4516.7	52.5°	4312.1	3496.9	1122.9	389.5	272.6	185.7	153.0	144.5	140.2	136.7
5161.6	55°	4856.3	3785.0	1116.1	362.0	243.3	165.1	140.2	135.0	129.8	126.4
5717.0	57.5°	5195.1	3825.4	920.0	331.9	209.8	148.8	128.1	124.7	118.7	114.4
6197.7	60°	5350.7	3595.0	644.9	292.3	176.3	133.3	115.2	113.5	105.8	99.7
6652.5	62.5°	5379.1	3166.8	429.9	243.3	147.0	118.7	102.3	99.7	89.4	79.1
7022.2	65°	5263.9	2554.6	297.5	190.0	125.5	103.2	87.7	82.5	71.4	61.0
7109.9	67.5°	4899.3	1793.6	207.2	136.7	106.6	81.7	69.6	67.9	59.3	50.7
6662.8	70°	4231.2	1022.3	138.4	102.3	84.3	55.9	55.0	56.7	48.2	41.3
5443.6	72.5°	3244.1	467.7	86.0	74.8	57.6	37.8	43.9	44.7	37.0	31.0
3396.3	75°	1909.7	200.3	54.2	48.2	29.2	24.9	31.8	32.7	24.9	19.8
1241.6	77.5°	650.0	75.7	34.4	28.4	14.6	13.8	20.6	20.6	13.8	7.7
249.4	80°	147.9	28.4	17.2	11.2	6.9	6.0	6.9	6.0	3.4	0.9
76.5	82.5°	42.1	11.2	6.9	4.3	2.6	2.6	0.9	0.0	0.0	0.0
26.7	85°	12.0	5.2	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
9.5	87.5°	5.2	0.9	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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<u>180°</u>
1380.0
1260.5
1063.6
819.4
601.9
518.5
503.9
489.2
473.8
459.1
444.5
429.9
414.4
393.8
366.3
324.2
277.7
229.6
190.0
161.6
146.2
135.9
124.7
113.5
98.0
73.9
57.6
48.2
37.8
27.5
17.2
6.0
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