

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: P941216

Luminaire Tested: **GALN-SB4C-927-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-927-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

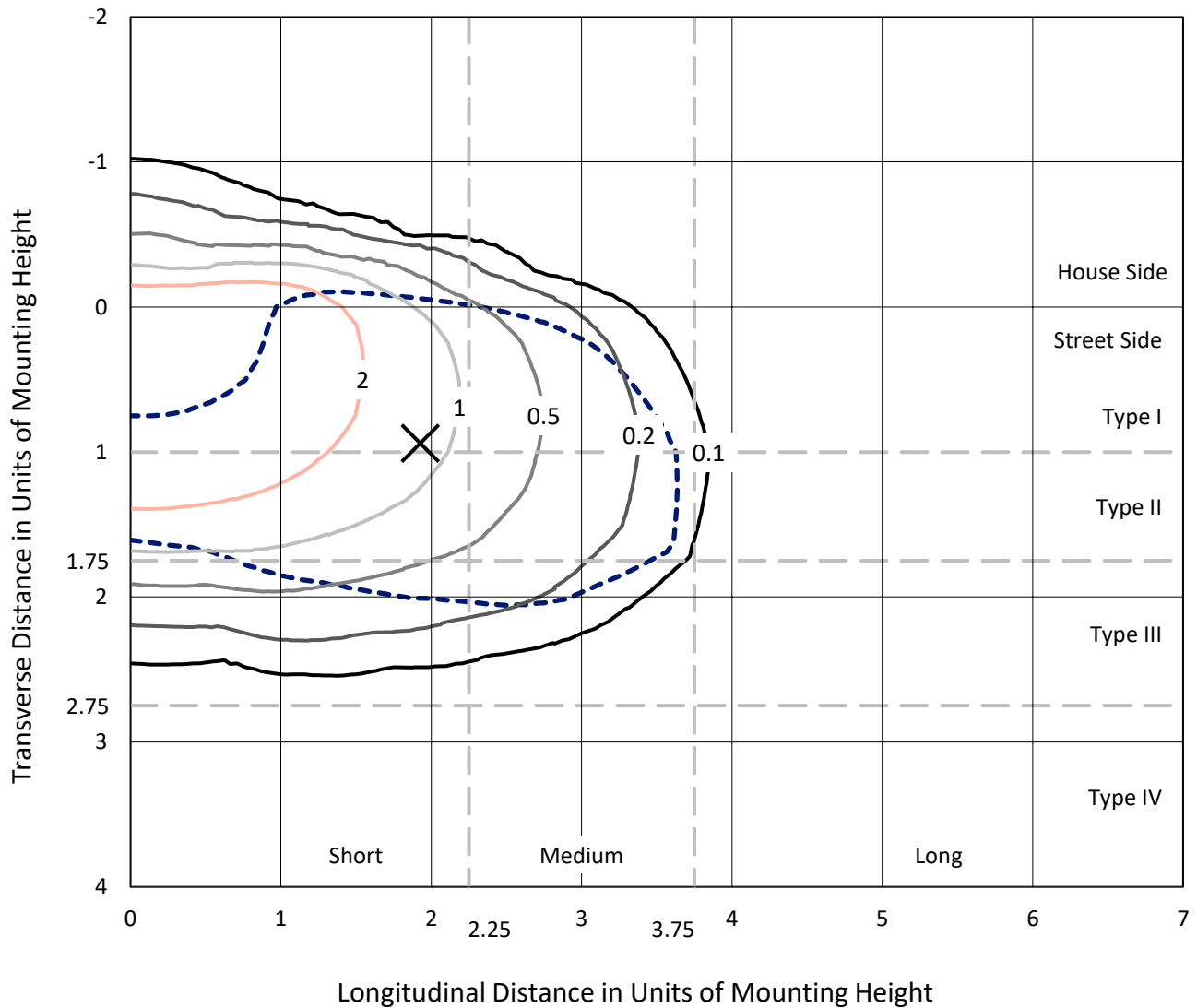
Lumens per Lamp: N/A  
Luminaire Lumens: 14329 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

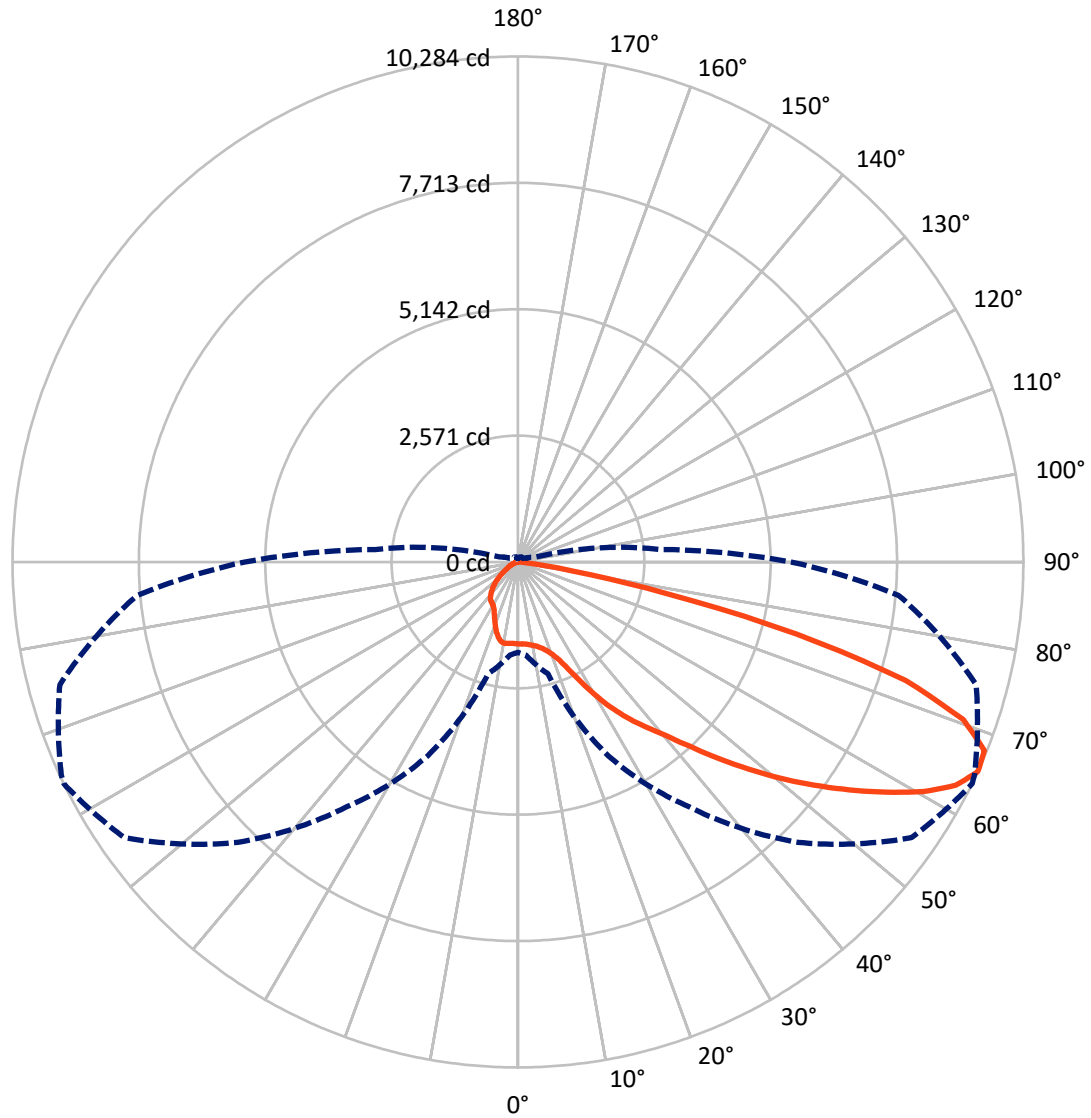
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1916.2	0.0	1916.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	12412.8	0.0	12412.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	14329.0	0.0	14329.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.8	1.1
10°-20°	417.0	2.9
20°-30°	790.3	5.5
30°-40°	1599.1	11.2
40°-50°	2724.1	19.0
50°-60°	3704.6	25.9
60°-70°	3478.8	24.3
70°-80°	1393.8	9.7
80°-90°	67.5	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°	14329.0	100.0
0°-180°	14329.0	100.0

**Coefficient of Utilization**



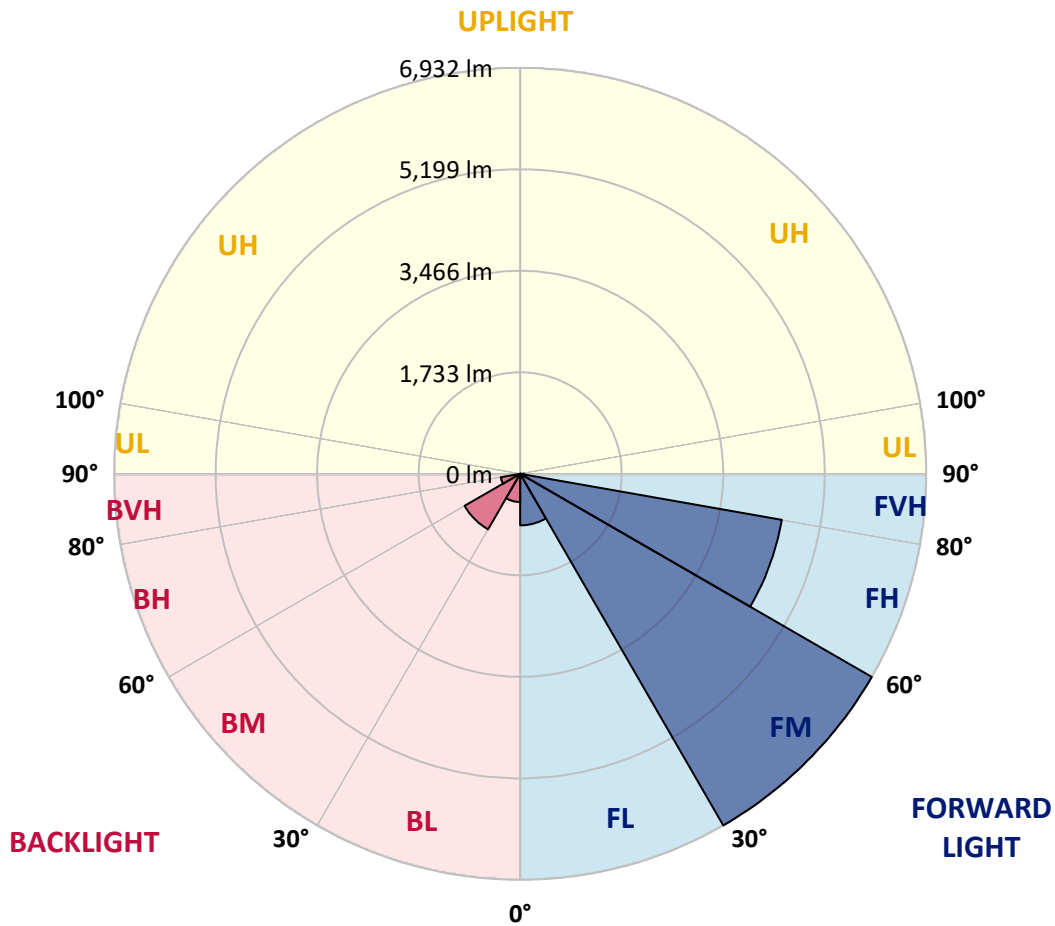
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.0	6.1			
FM (30°-60°)	6932.4	48.4			
FH (60°-80°)	4536.2	31.7			G2/5000
FVH (80°-90°)	64.2	0.4			G1/100
BL (0°-30°)	481.1	3.4	B1/500		
BM (30°-60°)	1095.5	7.6	B2/2500		
BH (60°-80°)	336.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1660.8	1672.4	1669.5	1666.6	1665.7	1667.6	1668.5	1667.6	1667.6	1667.6
5°	1629.1	1638.8	1638.8	1645.5	1655.1	1666.6	1675.3	1677.2	1679.1	1682.0
7.5°	1568.6	1576.3	1582.1	1604.2	1628.2	1658.9	1684.9	1698.3	1700.2	1710.8
10°	1527.3	1536.9	1546.5	1569.6	1604.2	1650.3	1694.5	1727.1	1731.9	1756.9
12.5°	1525.4	1535.0	1547.5	1572.5	1612.8	1661.8	1715.6	1762.7	1771.3	1807.8
15°	1545.6	1557.1	1568.6	1599.4	1642.6	1702.2	1759.8	1818.4	1827.0	1878.9
17.5°	1586.9	1602.3	1610.9	1641.6	1687.7	1754.0	1829.9	1897.2	1904.8	1965.4
20°	1668.5	1686.8	1689.7	1714.6	1759.8	1830.9	1921.2	2004.7	2014.3	2083.5
22.5°	1837.6	1863.5	1840.5	1853.0	1893.3	1964.4	2062.4	2168.0	2181.5	2260.3
25°	2135.4	2171.9	2112.3	2091.2	2108.5	2182.4	2305.4	2438.9	2454.3	2517.7
27.5°	2720.4	2673.3	2583.0	2494.6	2442.8	2485.0	2623.4	2788.6	2807.8	2869.3
30°	3363.0	3321.7	3199.7	3003.7	2880.8	2874.1	3001.8	3186.3	3208.3	3266.9
32.5°	4006.6	3967.2	3834.6	3593.5	3380.3	3274.6	3363.0	3567.6	3579.1	3616.6
35°	4639.6	4599.3	4466.7	4219.8	3957.6	3717.5	3700.2	3930.7	3934.5	3973.9
37.5°	5276.5	5242.9	5101.7	4859.6	4601.2	4269.8	4109.4	4274.6	4279.4	4317.8
40°	5730.8	5745.2	5648.2	5460.9	5239.0	4876.9	4568.5	4640.6	4611.8	4676.1
42.5°	6120.8	6149.7	6065.1	5971.0	5842.3	5523.4	5137.2	5124.7	5078.6	5113.2
45°	6458.0	6482.0	6406.1	6384.0	6381.2	6157.3	5758.7	5683.8	5619.4	5612.7
47.5°	6581.9	6628.0	6660.7	6734.6	6878.7	6784.6	6401.3	6285.1	6213.1	6160.2
50°	6629.0	6678.0	6789.4	7004.6	7345.6	7385.9	7041.1	6910.4	6822.1	6726.0
52.5°	6565.6	6653.0	6802.8	7165.0	7659.7	7868.1	7654.9	7540.6	7439.7	7283.1
55°	6191.9	6279.3	6585.8	7163.1	7816.3	8206.3	8235.1	8184.2	8070.8	7823.9
57.5°	5404.2	5533.9	6019.0	6919.1	7813.4	8497.3	8803.7	8840.2	8713.4	8360.0
60°	4313.0	4488.8	5080.5	6378.3	7572.3	8654.9	9302.3	9484.8	9350.3	8888.3
62.5°	3009.5	3213.2	3773.2	5531.0	7020.9	8541.5	9666.3	10003.5	9901.7	9360.9
65°	1835.7	1901.0	2352.5	4352.4	6083.4	8067.0	9778.7	10284.0	10250.4	9650.0
67.5°	1222.8	1277.6	1407.3	2984.5	4722.2	7118.9	9509.8	10235.0	10244.6	9602.9
70°	736.8	783.8	868.4	1735.8	3060.4	5634.8	8676.9	9610.6	9666.3	8973.8
72.5°	303.5	335.2	412.1	786.7	1585.0	3576.3	6909.5	8251.4	8381.1	7545.4
75°	171.9	188.3	242.1	394.8	687.8	1666.6	4185.3	5857.6	6048.8	5200.6
77.5°	114.3	122.0	156.6	255.5	387.1	568.7	1788.6	3051.8	3416.8	2840.4
80°	76.8	83.6	107.6	171.0	251.7	244.0	569.6	1130.6	1390.9	976.0
82.5°	51.9	52.8	76.8	112.4	159.5	118.2	168.1	351.6	441.9	282.4
85°	29.8	28.8	56.7	65.3	71.1	49.0	50.9	105.7	138.3	119.1
87.5°	3.8	5.8	22.1	17.3	9.6	10.6	10.6	18.3	26.9	28.8
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°
1666.6	0°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
1668.5	2.5°	1668.5	1667.6	1664.7	1661.8	1655.1	1651.2	1653.2	1651.2	1650.3	1651.2
1681.0	5°	1681.0	1678.1	1670.5	1660.8	1647.4	1631.1	1620.5	1605.1	1590.7	1582.1
1714.6	7.5°	1714.6	1711.8	1701.2	1674.3	1631.1	1562.9	1500.4	1445.7	1404.4	1380.4
1768.4	10°	1768.4	1763.6	1747.3	1687.7	1574.4	1425.5	1301.6	1198.8	1131.6	1099.9
1831.8	12.5°	1831.8	1826.1	1797.3	1675.3	1466.8	1234.3	1063.4	949.1	886.6	858.8
1904.8	15°	1906.8	1899.1	1842.4	1615.7	1310.2	1023.0	866.4	781.0	740.6	715.6
1998.0	17.5°	1999.9	1986.5	1876.0	1526.4	1140.2	861.6	745.4	681.1	645.5	621.5
2120.0	20°	2121.0	2098.9	1902.9	1419.7	983.6	759.8	663.8	610.0	583.1	561.9
2292.9	22.5°	2290.0	2258.3	1935.6	1304.5	873.2	689.7	603.2	563.9	541.8	517.8
2534.0	25°	2499.4	2462.0	1975.9	1197.8	797.3	629.2	559.1	526.4	500.5	472.6
2850.0	27.5°	2792.4	2725.2	2023.9	1110.4	732.0	577.3	518.7	482.2	452.4	429.4
3208.3	30°	3119.0	3008.5	2066.2	1057.6	672.4	529.3	465.9	429.4	401.5	385.2
3530.1	32.5°	3428.3	3278.5	2094.1	1034.5	618.6	474.5	408.2	368.9	347.7	342.9
3845.2	35°	3720.3	3522.5	2091.2	1012.5	570.6	419.8	351.6	311.2	294.9	297.8
4184.3	37.5°	4056.5	3782.8	2071.0	977.9	531.2	369.8	302.6	267.0	252.6	253.6
4596.4	40°	4447.5	4083.4	2058.5	912.6	488.0	323.7	262.2	233.4	222.9	219.0
5030.6	42.5°	4864.4	4374.5	2060.5	838.6	434.2	282.4	234.4	210.4	200.8	197.9
5513.7	45°	5283.2	4652.1	2063.3	761.7	377.5	250.7	214.2	194.0	188.3	184.4
6003.6	47.5°	5677.0	4888.4	2009.5	679.1	321.8	226.7	197.9	184.4	179.6	174.8
6495.5	50°	6044.0	5045.9	1879.9	583.1	277.6	207.5	185.4	175.8	171.0	166.2
6941.2	52.5°	6329.3	5070.9	1665.7	484.1	246.9	193.1	177.7	169.1	163.3	158.5
7301.4	55°	6456.1	4914.3	1361.1	391.9	222.9	180.6	170.0	161.4	154.7	149.9
7584.8	57.5°	6423.4	4584.9	1061.4	315.1	199.8	168.1	160.4	154.7	147.0	139.3
7814.3	60°	6263.0	4144.0	800.2	262.2	178.7	154.7	149.9	145.0	134.5	123.0
7902.7	62.5°	5985.4	3589.7	570.6	217.1	155.6	139.3	137.4	133.5	118.2	97.0
7772.1	65°	5560.8	2916.3	384.2	180.6	133.5	122.0	123.0	116.2	96.1	72.0
7293.7	67.5°	4940.3	2132.5	245.9	147.9	111.4	101.8	102.8	98.9	81.6	61.5
6386.9	70°	4149.7	1412.1	160.4	112.4	89.3	78.8	84.5	85.5	69.2	50.0
4901.9	72.5°	3042.2	833.8	112.4	83.6	65.3	54.8	69.2	71.1	55.7	37.5
2949.0	75°	1733.9	395.8	84.5	60.5	40.3	38.4	53.8	53.8	38.4	25.0
1276.6	77.5°	728.1	165.2	59.6	39.4	23.1	22.1	36.5	33.6	19.2	11.5
311.2	80°	210.4	74.0	31.7	19.2	9.6	8.6	14.4	10.6	4.8	1.9
118.2	82.5°	82.6	32.7	12.5	7.7	3.8	3.8	1.9	0.0	0.0	0.0
67.2	85°	49.0	13.4	5.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	12.5	2.9	1.9	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>
1666.6
1655.1
1584.0
1381.3
1097.0
855.9
716.6
619.6
558.1
513.9
469.7
424.6
382.3
345.8
297.8
257.4
218.1
196.9
184.4
174.8
166.2
157.5
148.9
138.3
121.0
95.1
70.1
58.6
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