

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: P941076

Luminaire Tested: **GALN-SB4B-940-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941076  
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-SB4B-940-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

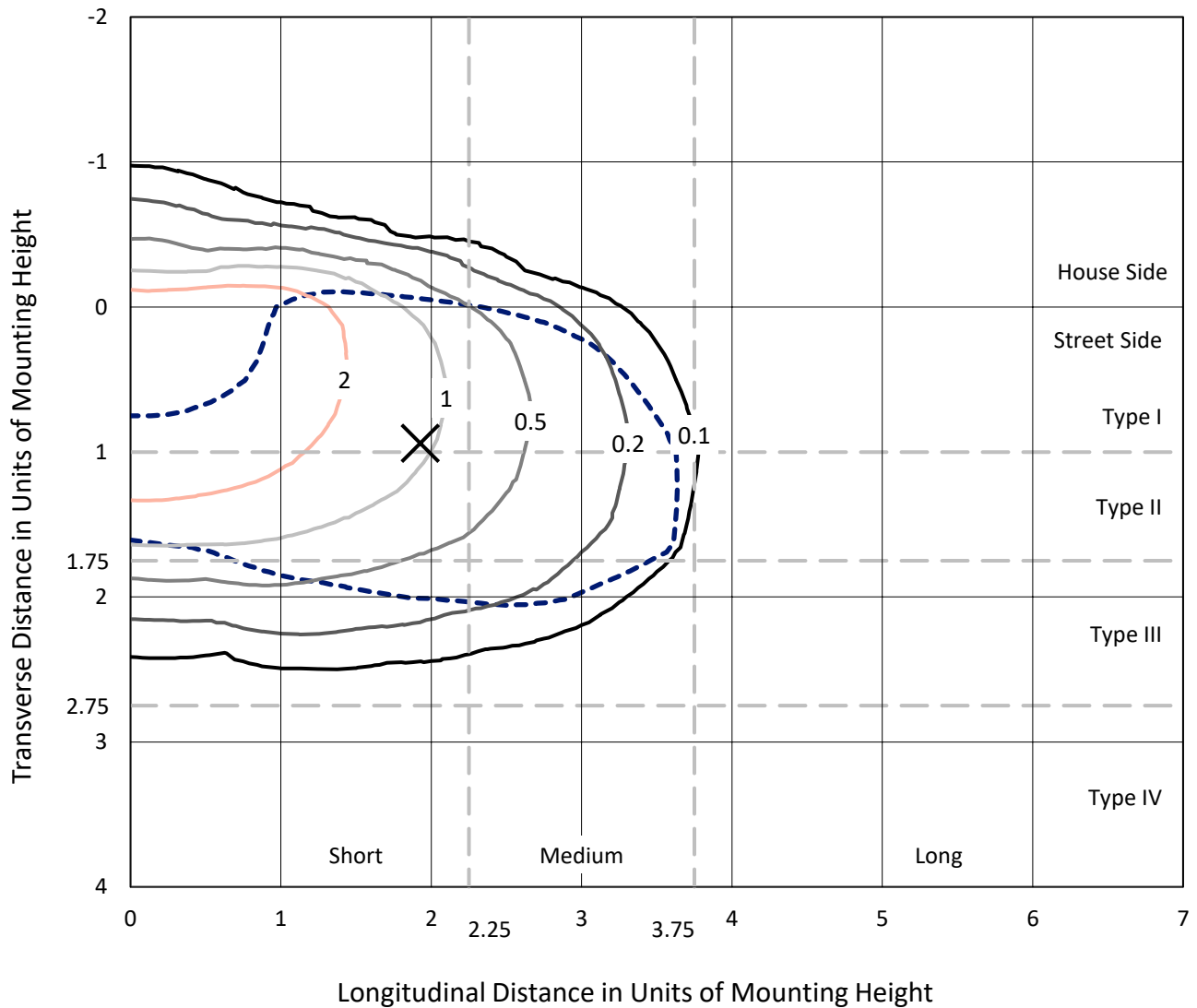
Lumens per Lamp: N/A  
Luminaire Lumens: 12826 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

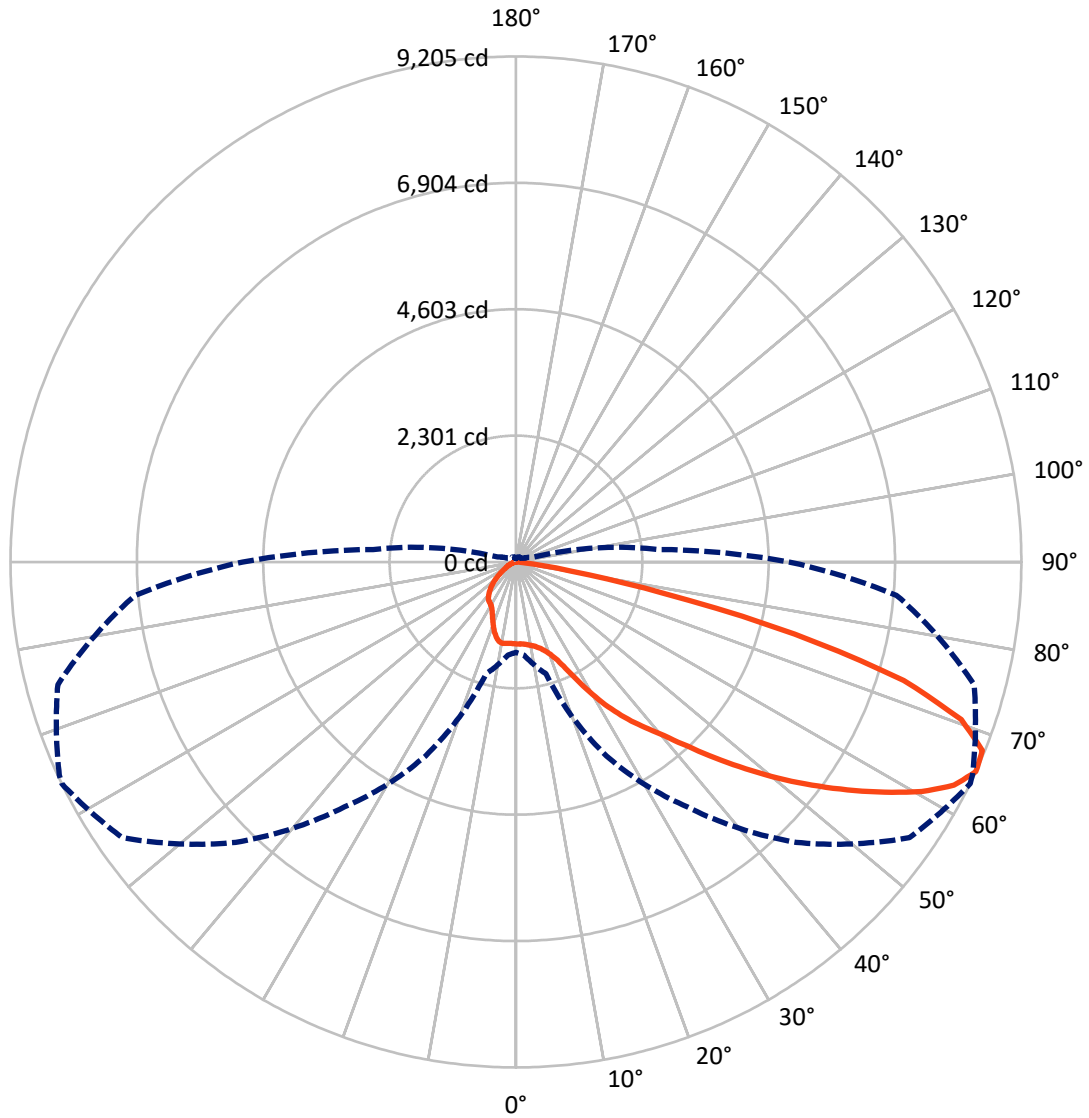
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1715.2	0.0	1715.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	11110.8	0.0	11110.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	12826.0	0.0	12826.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	1.1
10°-20°	373.3	2.9
20°-30°	707.4	5.5
30°-40°	1431.4	11.2
40°-50°	2438.4	19.0
50°-60°	3316.0	25.9
60°-70°	3113.9	24.3
70°-80°	1247.6	9.7
80°-90°	60.4	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°	12826.0	100.0
0°-180°	12826.0	100.0

**Coefficient of Utilization**



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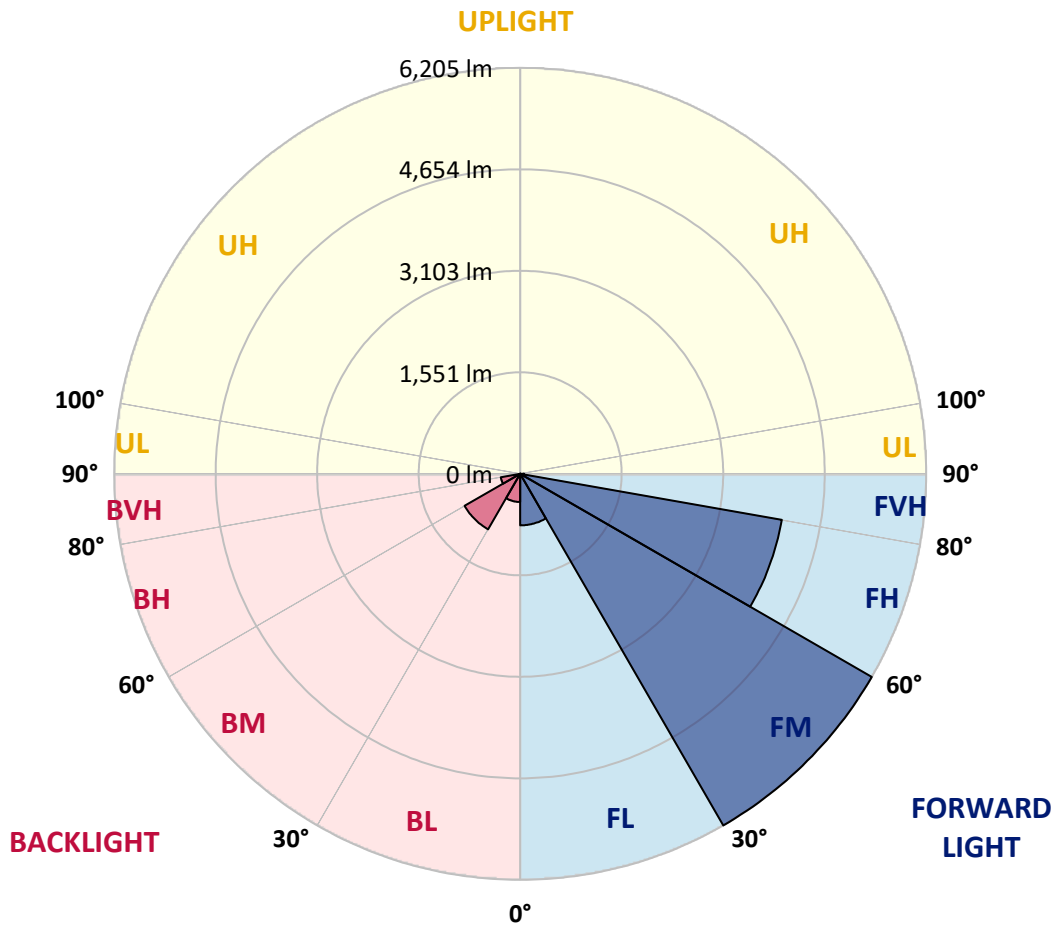
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.7	6.1			
FM (30°-60°)	6205.2	48.4			
FH (60°-80°)	4060.4	31.7			G2/5000
FVH (80°-90°)	57.5	0.4			G1/100
BL (0°-30°)	430.6	3.4	B1/500		
BM (30°-60°)	980.6	7.6	B1/1000		
BH (60°-80°)	301.0	2.3	B1/500		G1/500
BVH (80°-90°)	3.0	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8
2.5°	1486.6	1497.0	1494.4	1491.8	1490.9	1492.7	1493.5	1492.7	1492.7	1492.7
5°	1458.3	1466.9	1466.9	1472.9	1481.5	1491.8	1499.5	1501.3	1503.0	1505.6
7.5°	1404.1	1411.0	1416.1	1435.9	1457.4	1484.9	1508.1	1520.2	1521.9	1531.3
10°	1367.1	1375.7	1384.3	1405.0	1435.9	1477.2	1516.7	1546.0	1550.3	1572.6
12.5°	1365.4	1374.0	1385.2	1407.5	1443.6	1487.5	1535.6	1577.8	1585.5	1618.2
15°	1383.5	1393.8	1404.1	1431.6	1470.3	1523.6	1575.2	1627.6	1635.4	1681.8
17.5°	1420.4	1434.2	1441.9	1469.4	1510.7	1570.0	1638.0	1698.2	1705.0	1759.2
20°	1493.5	1509.9	1512.4	1534.8	1575.2	1638.8	1719.7	1794.5	1803.1	1865.0
22.5°	1644.8	1668.1	1647.4	1658.6	1694.7	1758.3	1846.0	1940.6	1952.7	2023.2
25°	1911.4	1944.1	1890.8	1871.8	1887.3	1953.5	2063.6	2183.1	2196.9	2253.6
27.5°	2435.0	2392.9	2312.1	2233.0	2186.5	2224.4	2348.2	2496.1	2513.3	2568.3
30°	3010.2	2973.3	2864.1	2688.7	2578.6	2572.6	2687.0	2852.0	2871.8	2924.3
32.5°	3586.3	3551.1	3432.4	3216.6	3025.7	2931.1	3010.2	3193.4	3203.7	3237.2
35°	4153.0	4116.8	3998.2	3777.2	3542.5	3327.5	3312.0	3518.4	3521.8	3557.1
37.5°	4723.0	4692.9	4566.5	4349.9	4118.6	3821.9	3678.3	3826.2	3830.5	3864.9
40°	5129.7	5142.6	5055.8	4888.1	4689.5	4365.3	4089.3	4153.8	4128.0	4185.6
42.5°	5478.8	5504.6	5428.9	5344.7	5229.5	4944.0	4598.3	4587.2	4545.9	4576.9
45°	5780.6	5802.1	5734.2	5714.4	5711.8	5511.5	5154.7	5087.6	5030.0	5024.0
47.5°	5891.5	5932.8	5962.0	6028.2	6157.2	6072.9	5729.9	5625.8	5561.4	5514.1
50°	5933.7	5977.5	6077.2	6269.8	6575.1	6611.2	6302.5	6185.6	6106.5	6020.5
52.5°	5876.9	5955.2	6089.3	6413.4	6856.2	7042.8	6851.9	6749.6	6659.3	6519.2
55°	5542.4	5620.7	5895.0	6411.7	6996.4	7345.5	7371.3	7325.7	7224.3	7003.3
57.5°	4837.4	4953.5	5387.7	6193.3	6993.8	7606.0	7880.3	7913.0	7799.5	7483.1
60°	3860.6	4018.0	4547.6	5709.2	6778.0	7747.0	8326.5	8489.9	8369.5	7956.0
62.5°	2693.8	2876.1	3377.4	4950.9	6284.5	7645.6	8652.4	8954.2	8863.1	8379.0
65°	1643.1	1701.6	2105.7	3895.9	5445.3	7220.8	8753.0	9205.3	9175.2	8637.8
67.5°	1094.6	1143.6	1259.6	2671.5	4226.9	6372.2	8512.3	9161.4	9170.0	8595.7
70°	659.5	701.6	777.3	1553.7	2739.4	5043.7	7766.8	8602.6	8652.4	8032.5
72.5°	271.7	300.1	368.9	704.2	1418.7	3201.1	6184.7	7385.9	7502.0	6753.9
75°	153.9	168.5	216.7	353.4	615.6	1491.8	3746.3	5243.2	5414.3	4655.1
77.5°	102.3	109.2	140.2	228.7	346.5	509.0	1601.0	2731.7	3058.4	2542.5
80°	68.8	74.8	96.3	153.0	225.3	218.4	509.9	1012.0	1245.0	873.6
82.5°	46.4	47.3	68.8	100.6	142.7	105.8	150.5	314.7	395.5	252.8
85°	26.7	25.8	50.7	58.5	63.6	43.9	45.6	94.6	123.8	106.6
87.5°	3.4	5.2	19.8	15.5	8.6	9.5	9.5	16.3	24.1	25.8
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°
1491.8	0°	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8
1493.5	2.5°	1493.5	1492.7	1490.1	1487.5	1481.5	1478.0	1479.8	1478.0	1477.2	1478.0
1504.7	5°	1504.7	1502.1	1495.2	1486.6	1474.6	1460.0	1450.5	1436.8	1423.9	1416.1
1534.8	7.5°	1534.8	1532.2	1522.8	1498.7	1460.0	1398.9	1343.0	1294.0	1257.1	1235.6
1582.9	10°	1582.9	1578.6	1564.0	1510.7	1409.3	1276.0	1165.1	1073.1	1012.9	984.5
1639.7	12.5°	1639.7	1634.5	1608.7	1499.5	1313.0	1104.9	951.8	849.5	793.6	768.7
1705.0	15°	1706.8	1699.9	1649.1	1446.2	1172.8	915.7	775.6	699.0	662.9	640.6
1788.4	17.5°	1790.2	1778.1	1679.2	1366.3	1020.6	771.3	667.2	609.6	577.8	556.3
1897.6	20°	1898.5	1878.7	1703.3	1270.8	880.5	680.1	594.1	546.0	521.9	503.0
2052.4	22.5°	2049.8	2021.4	1732.5	1167.6	781.6	617.4	540.0	504.7	484.9	463.4
2268.2	25°	2237.3	2203.7	1768.7	1072.2	713.7	563.2	500.4	471.2	448.0	423.0
2551.1	27.5°	2499.5	2439.3	1811.7	994.0	655.2	516.8	464.3	431.6	405.0	384.3
2871.8	30°	2791.9	2693.0	1849.5	946.7	601.9	473.8	417.0	384.3	359.4	344.8
3159.9	32.5°	3068.7	2934.6	1874.4	926.0	553.7	424.8	365.4	330.2	311.3	307.0
3441.9	35°	3330.1	3153.0	1871.8	906.3	510.7	375.7	314.7	278.6	264.0	266.5
3745.4	37.5°	3631.0	3386.0	1853.8	875.3	475.5	331.0	270.8	239.0	226.1	227.0
4114.3	40°	3981.0	3655.1	1842.6	816.8	436.8	289.8	234.7	208.9	199.5	196.0
4502.9	42.5°	4354.2	3915.6	1844.3	750.6	388.6	252.8	209.8	188.3	179.7	177.1
4935.4	45°	4729.0	4164.1	1846.9	681.8	337.9	224.4	191.7	173.7	168.5	165.1
5373.9	47.5°	5081.6	4375.7	1798.8	607.9	288.0	202.9	177.1	165.1	160.8	156.5
5814.1	50°	5410.0	4516.7	1682.7	521.9	248.5	185.7	165.9	157.3	153.0	148.7
6213.1	52.5°	5665.4	4539.0	1490.9	433.4	221.0	172.8	159.1	151.3	146.2	141.9
6535.5	55°	5778.9	4398.9	1218.4	350.8	199.5	161.6	152.2	144.5	138.4	134.1
6789.2	57.5°	5749.7	4103.9	950.1	282.0	178.8	150.5	143.6	138.4	131.6	124.7
6994.7	60°	5606.1	3709.3	716.2	234.7	159.9	138.4	134.1	129.8	120.4	110.1
7073.8	62.5°	5357.6	3213.2	510.7	194.3	139.3	124.7	123.0	119.5	105.8	86.8
6956.8	65°	4977.5	2610.4	343.9	161.6	119.5	109.2	110.1	104.0	86.0	64.5
6528.7	67.5°	4422.1	1908.8	220.1	132.4	99.7	91.1	92.0	88.6	73.1	55.0
5717.0	70°	3714.4	1263.9	143.6	100.6	80.0	70.5	75.7	76.5	61.9	44.7
4387.7	72.5°	2723.1	746.3	100.6	74.8	58.5	49.0	61.9	63.6	49.9	33.5
2639.7	75°	1552.0	354.2	75.7	54.2	36.1	34.4	48.2	48.2	34.4	22.4
1142.7	77.5°	651.7	147.9	53.3	35.3	20.6	19.8	32.7	30.1	17.2	10.3
278.6	80°	188.3	66.2	28.4	17.2	8.6	7.7	12.9	9.5	4.3	1.7
105.8	82.5°	73.9	29.2	11.2	6.9	3.4	3.4	1.7	0.0	0.0	0.0
60.2	85°	43.9	12.0	5.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0
12.9	87.5°	11.2	2.6	1.7	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>
1491.8
1481.5
1417.9
1236.4
981.9
766.1
641.4
554.6
499.6
460.0
420.5
380.0
342.2
309.5
266.5
230.4
195.2
176.3
165.1
156.5
148.7
141.0
133.3
123.8
108.3
85.1
62.8
52.4
43.0
31.8
20.6
10.3
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