

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: P949822

Luminaire Tested: **GALN-SB4B-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
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-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

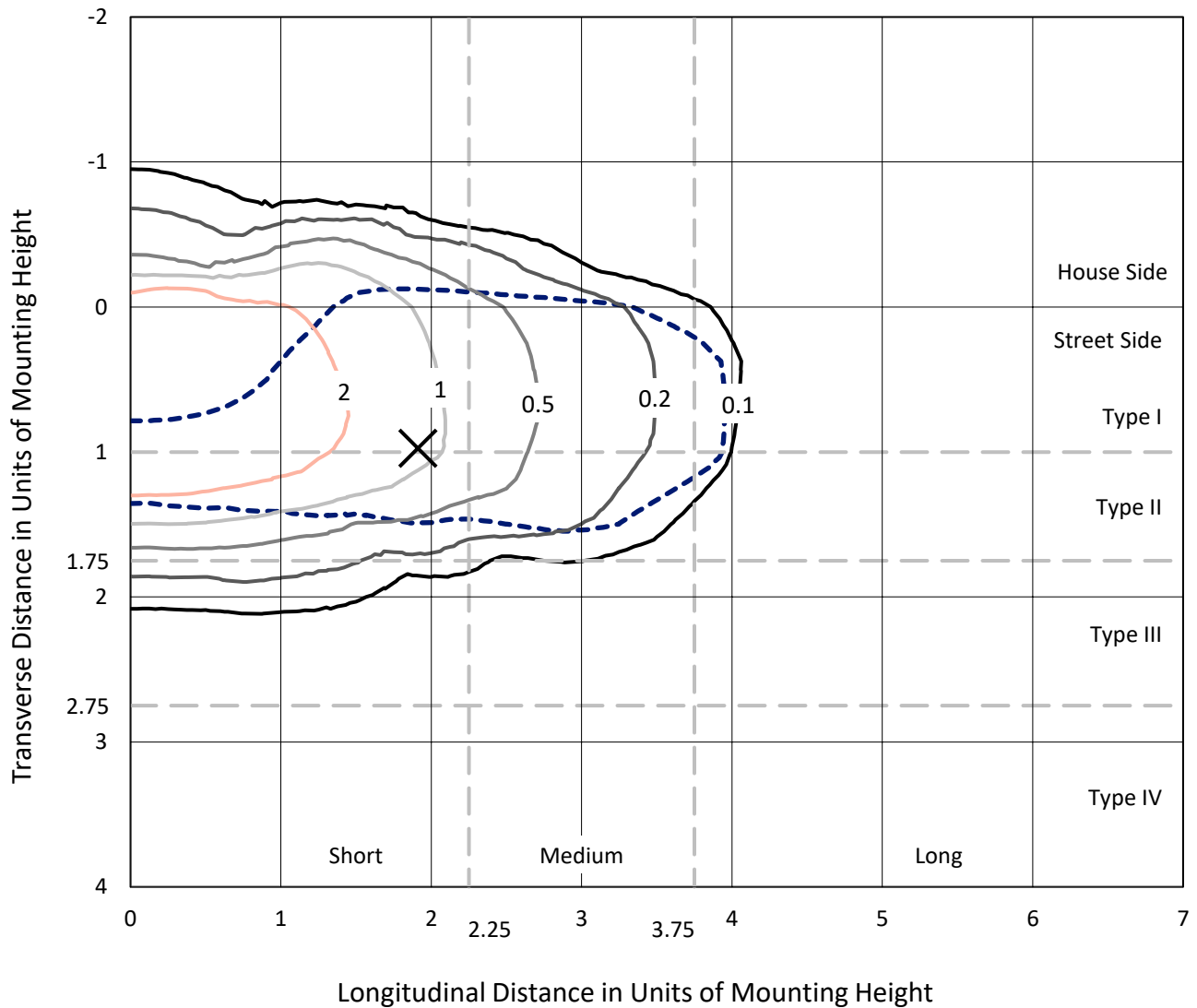
Lumens per Lamp: N/A  
Luminaire Lumens: 11998 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

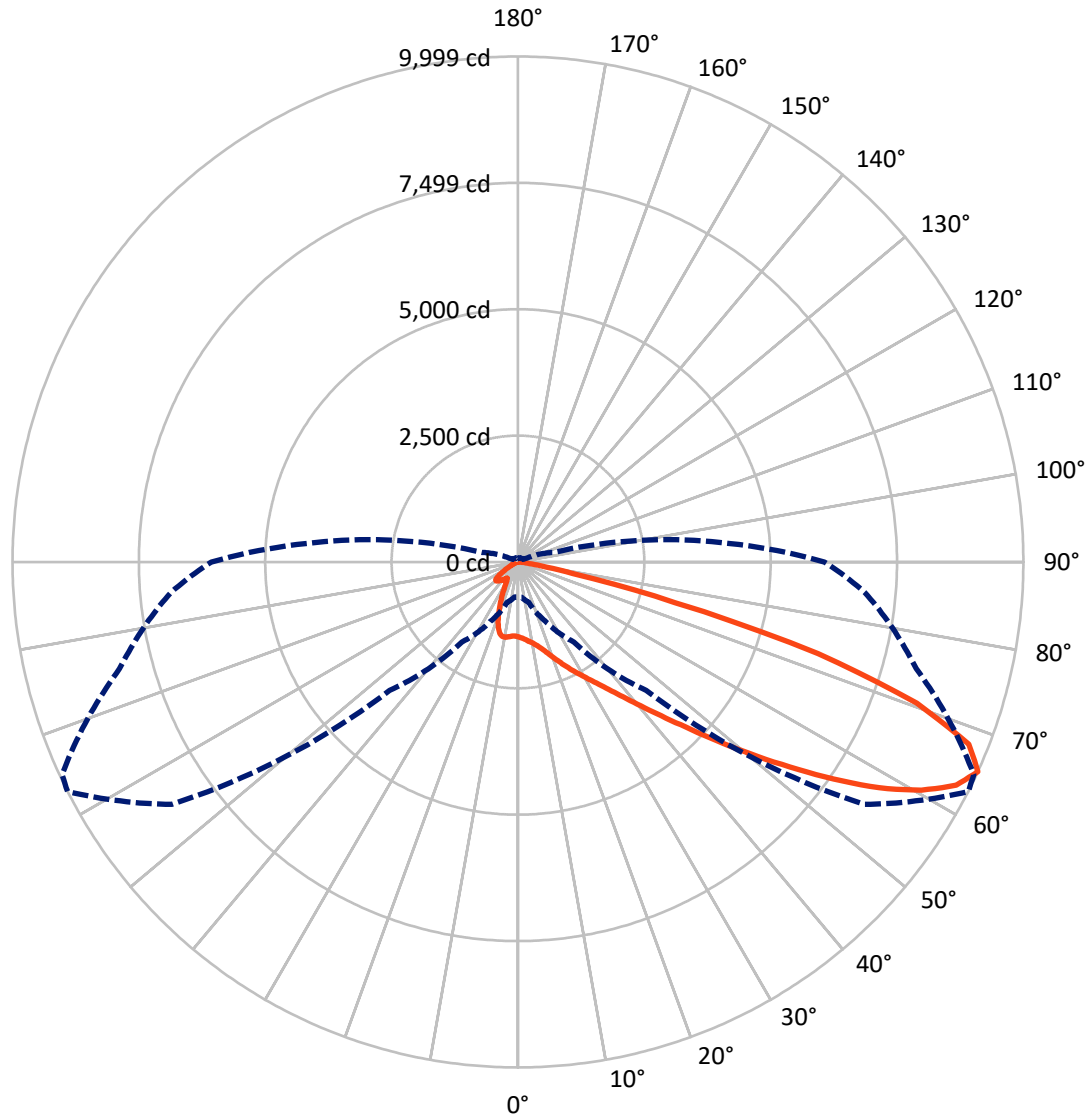
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1763.6	0.0	1763.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	10234.4	0.0	10234.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	11998.0	0.0	11998.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	1.2
10°-20°	387.1	3.2
20°-30°	674.1	5.6
30°-40°	1214.9	10.1
40°-50°	2409.6	20.1
50°-60°	3282.2	27.4
60°-70°	2619.8	21.8
70°-80°	1185.5	9.9
80°-90°	85.2	0.7
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°	11998.0	100.0
0°-180°	11998.0	100.0

**Coefficient of Utilization**



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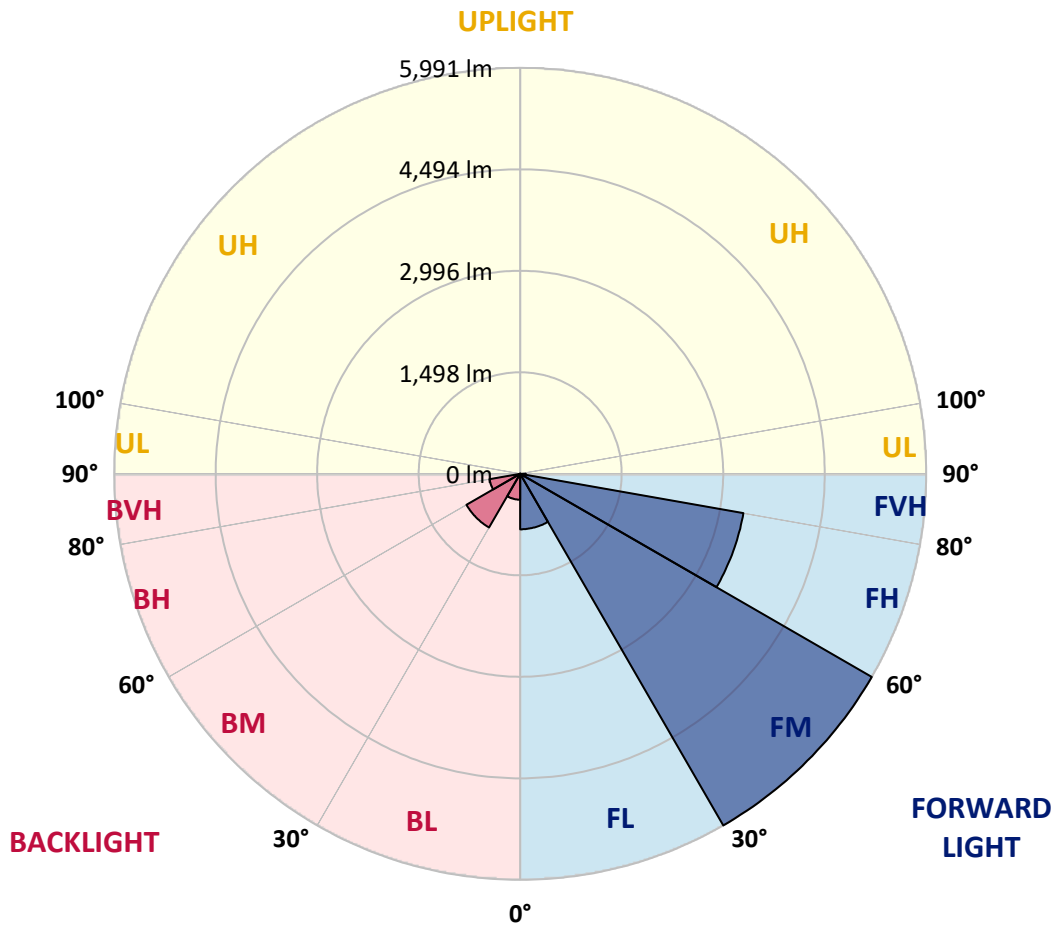
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.0	6.8			
FM (30°-60°)	5991.5	49.9			
FH (60°-80°)	3345.0	27.9			G2/5000
FVH (80°-90°)	78.9	0.7			G1/100
BL (0°-30°)	381.7	3.2	B1/500		
BM (30°-60°)	915.2	7.6	B1/1000		
BH (60°-80°)	460.4	3.8	B1/500		G1/500
BVH (80°-90°)	6.3	0.1			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8
2.5°	1515.4	1511.3	1517.1	1514.6	1513.0	1509.7	1508.0	1506.4	1503.1	1500.6
5°	1519.6	1517.1	1522.9	1527.8	1532.8	1537.7	1540.2	1543.5	1540.2	1533.6
7.5°	1484.9	1483.3	1495.6	1510.5	1532.8	1551.8	1572.4	1584.0	1584.8	1582.3
10°	1482.4	1478.3	1490.7	1508.8	1537.7	1571.6	1607.9	1632.7	1636.0	1646.7
12.5°	1521.2	1517.1	1534.4	1554.2	1584.0	1619.4	1664.0	1698.7	1703.6	1718.5
15°	1586.4	1580.7	1600.5	1626.1	1664.0	1704.5	1751.5	1782.9	1787.0	1805.2
17.5°	1662.4	1656.6	1679.7	1706.9	1748.2	1803.5	1858.0	1892.7	1897.6	1909.2
20°	1759.8	1752.3	1770.5	1795.3	1839.0	1905.0	1970.2	2019.8	2018.9	2018.9
22.5°	1872.8	1861.3	1877.0	1896.8	1938.1	2018.1	2104.8	2163.4	2163.4	2140.3
25°	1994.2	1982.6	2000.0	2018.1	2054.4	2145.2	2246.8	2319.4	2322.7	2283.1
27.5°	2146.1	2131.2	2144.4	2165.9	2187.3	2279.8	2400.3	2484.5	2486.1	2425.0
30°	2438.3	2396.2	2354.9	2331.8	2341.7	2433.3	2562.1	2655.3	2663.6	2579.4
32.5°	2973.1	2964.9	2819.6	2629.7	2530.7	2598.4	2742.8	2855.1	2860.0	2751.9
35°	3804.3	3794.4	3560.8	3199.3	2876.5	2819.6	2962.4	3095.3	3092.0	2969.8
37.5°	4796.4	4787.4	4479.5	3995.8	3473.3	3153.9	3245.5	3385.0	3405.6	3245.5
40°	5644.1	5610.3	5415.5	4949.1	4265.7	3708.6	3648.3	3740.7	3762.2	3572.4
42.5°	6286.3	6257.4	6158.4	5867.0	5224.8	4529.0	4122.9	4158.4	4182.3	3954.5
45°	6618.9	6612.3	6652.0	6624.7	6202.1	5536.0	4801.4	4653.6	4662.7	4378.0
47.5°	6666.0	6662.7	6843.4	7099.3	7042.4	6671.8	5672.2	5271.0	5238.9	4855.9
50°	6388.6	6382.0	6728.7	7208.3	7603.6	7625.9	6661.0	5966.9	5895.9	5350.3
52.5°	5503.0	5501.3	6070.9	6869.0	7800.9	8461.2	7638.3	6731.2	6612.3	5873.6
55°	4234.3	4264.9	4917.8	5861.2	7441.0	8863.2	8515.7	7579.7	7397.3	6400.2
57.5°	2999.5	3044.1	3689.6	4529.8	6325.1	8625.5	9109.2	8429.9	8233.4	6925.2
60°	1611.2	1650.8	2297.1	3300.0	4705.6	7739.0	9422.0	9167.8	8982.1	7423.7
62.5°	959.9	973.2	1240.6	2130.4	3182.8	5912.4	9289.1	9729.9	9577.2	7842.2
65°	689.2	691.7	826.2	1300.8	1932.3	3592.2	8357.2	9999.0	9951.9	8157.5
67.5°	580.3	578.6	634.7	864.2	1316.5	1799.4	6405.2	9618.5	9818.2	8357.2
70°	497.7	500.2	566.2	633.1	989.7	1018.6	3184.4	8374.6	8800.5	8410.1
72.5°	370.6	378.9	439.9	577.0	747.0	700.8	1099.4	6209.5	6979.6	7923.9
75°	261.7	265.8	309.5	485.3	557.1	510.1	561.3	3210.0	4197.2	6075.0
77.5°	201.4	208.8	234.4	339.2	548.9	358.2	343.4	1111.0	1706.9	3669.8
80°	109.0	122.2	169.2	245.1	385.5	253.4	170.0	442.4	578.6	1716.0
82.5°	56.1	62.7	118.0	176.6	219.6	221.2	84.2	184.1	238.5	529.9
85°	22.3	27.2	79.2	97.4	113.1	109.0	38.0	74.3	85.8	146.9
87.5°	5.0	8.3	28.9	22.3	21.5	23.1	9.1	17.3	16.5	17.3
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°
1480.8	0°	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8	1480.8
1490.7	2.5°	1489.9	1486.6	1477.5	1467.6	1456.0	1449.4	1445.3	1444.5	1438.7	1434.6
1523.7	5°	1514.6	1511.3	1494.0	1473.4	1451.1	1433.7	1417.2	1402.4	1380.9	1376.8
1571.6	7.5°	1564.1	1555.1	1527.0	1498.9	1456.8	1406.5	1345.4	1275.3	1212.5	1193.5
1635.1	10°	1625.2	1612.8	1577.4	1527.8	1434.6	1297.5	1149.8	1012.8	903.8	873.3
1710.2	12.5°	1694.6	1683.8	1636.8	1545.2	1341.3	1092.8	866.7	696.6	591.0	564.6
1790.3	15°	1777.1	1761.4	1696.2	1518.7	1174.6	830.4	595.1	494.4	456.4	451.5
1881.9	17.5°	1864.6	1839.0	1749.0	1423.8	950.0	590.2	459.8	430.9	414.4	409.4
1974.4	20°	1944.7	1911.6	1780.4	1280.2	709.8	459.8	411.9	392.9	378.0	372.3
2066.8	22.5°	2024.7	1977.7	1780.4	1084.6	532.4	407.8	378.0	360.7	343.4	335.9
2165.9	25°	2108.1	2045.4	1749.0	866.7	428.4	373.9	345.8	326.9	312.0	302.9
2260.0	27.5°	2189.0	2102.3	1677.2	660.3	381.3	344.2	316.1	298.0	283.9	277.3
2362.3	30°	2265.7	2158.4	1576.5	501.0	350.8	315.3	288.9	273.2	259.2	252.6
2495.2	32.5°	2369.7	2229.4	1469.2	411.1	324.4	288.1	264.1	249.3	236.9	231.9
2667.7	35°	2514.2	2334.3	1376.8	403.6	302.1	265.8	241.8	227.8	215.4	211.3
2890.6	37.5°	2718.9	2503.5	1328.1	453.1	283.9	246.0	223.7	208.8	197.3	194.0
3173.7	40°	2971.5	2732.9	1354.5	502.7	271.6	228.6	207.2	192.3	182.4	178.3
3498.9	42.5°	3271.1	3016.0	1500.6	540.6	263.3	213.8	191.5	175.0	168.4	166.7
3867.9	45°	3615.3	3327.2	1724.3	581.1	250.1	199.7	175.8	163.4	158.5	157.7
4269.0	47.5°	4006.5	3668.9	1983.5	631.4	236.9	186.5	163.4	155.2	151.0	149.4
4687.5	50°	4394.5	4013.1	2250.1	659.5	226.2	174.2	153.5	146.9	143.6	142.8
5129.9	52.5°	4800.6	4367.2	2465.5	633.1	217.1	164.3	145.3	140.3	137.0	136.2
5537.7	55°	5187.7	4653.6	2502.6	537.3	198.9	154.4	136.2	133.7	129.6	129.6
5951.2	57.5°	5521.1	4797.3	2240.2	394.5	180.8	139.5	127.1	124.6	121.3	120.5
6324.3	60°	5827.4	4756.0	1729.2	265.8	161.0	124.6	115.6	113.9	110.6	106.5
6648.7	62.5°	5999.9	4574.4	1182.8	173.3	141.1	109.0	102.4	101.5	94.1	85.8
6888.8	65°	6065.1	4201.3	737.9	126.3	118.0	93.3	88.3	86.7	75.9	66.9
7025.0	67.5°	6008.1	3587.2	372.3	99.9	93.3	77.6	72.6	72.6	65.2	57.0
7016.8	70°	5780.3	2689.2	156.8	80.1	71.8	59.4	59.4	62.7	55.3	46.2
6652.8	72.5°	5285.9	1809.3	83.4	61.1	53.7	42.1	48.7	51.2	43.7	34.7
5445.2	75°	4202.1	1103.6	57.8	45.4	33.8	29.7	37.1	38.8	29.7	23.1
3733.3	77.5°	2874.1	633.9	38.8	28.9	21.5	17.3	25.6	23.9	15.7	10.7
1439.5	80°	1262.0	264.1	22.3	13.2	8.3	6.6	9.1	6.6	5.0	3.3
197.3	82.5°	147.7	61.9	8.3	5.0	3.3	1.7	0.8	0.0	0.0	0.0
60.3	85°	30.5	7.4	4.1	1.7	0.8	0.0	0.0	0.0	0.0	0.0
10.7	87.5°	5.8	1.7	0.8	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>
1480.8
1438.7
1375.1
1184.5
861.7
557.1
446.5
406.9
369.0
331.8
299.6
277.3
253.4
231.9
211.3
193.1
177.5
166.7
156.8
149.4
142.8
136.2
128.8
119.7
105.7
84.2
66.0
56.1
45.4
34.7
22.3
11.6
3.3
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