

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: P947491

Luminaire Tested: **GALN-SB2D-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947491  
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-SB2D-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

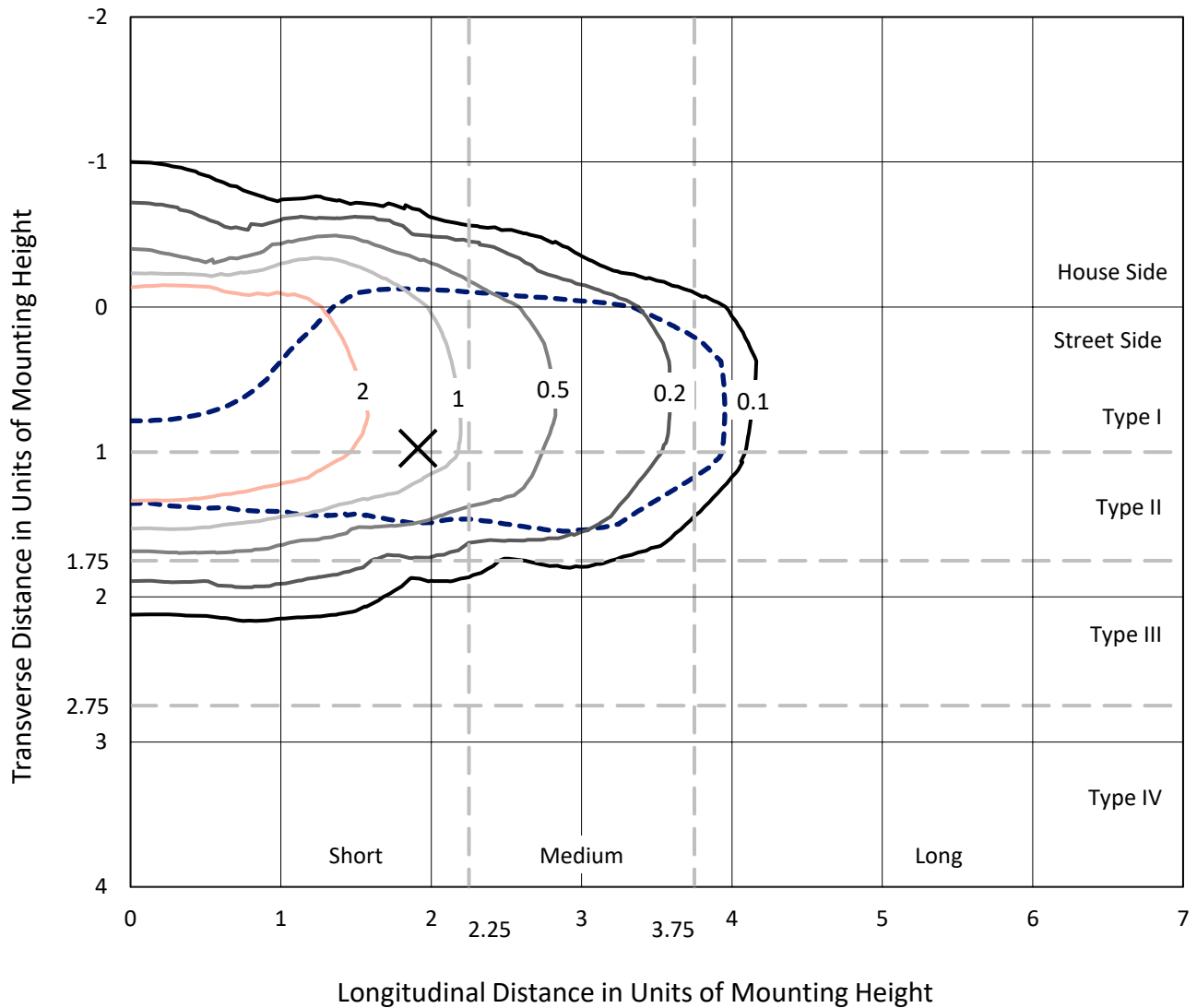
Lumens per Lamp: N/A  
Luminaire Lumens: 13524 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

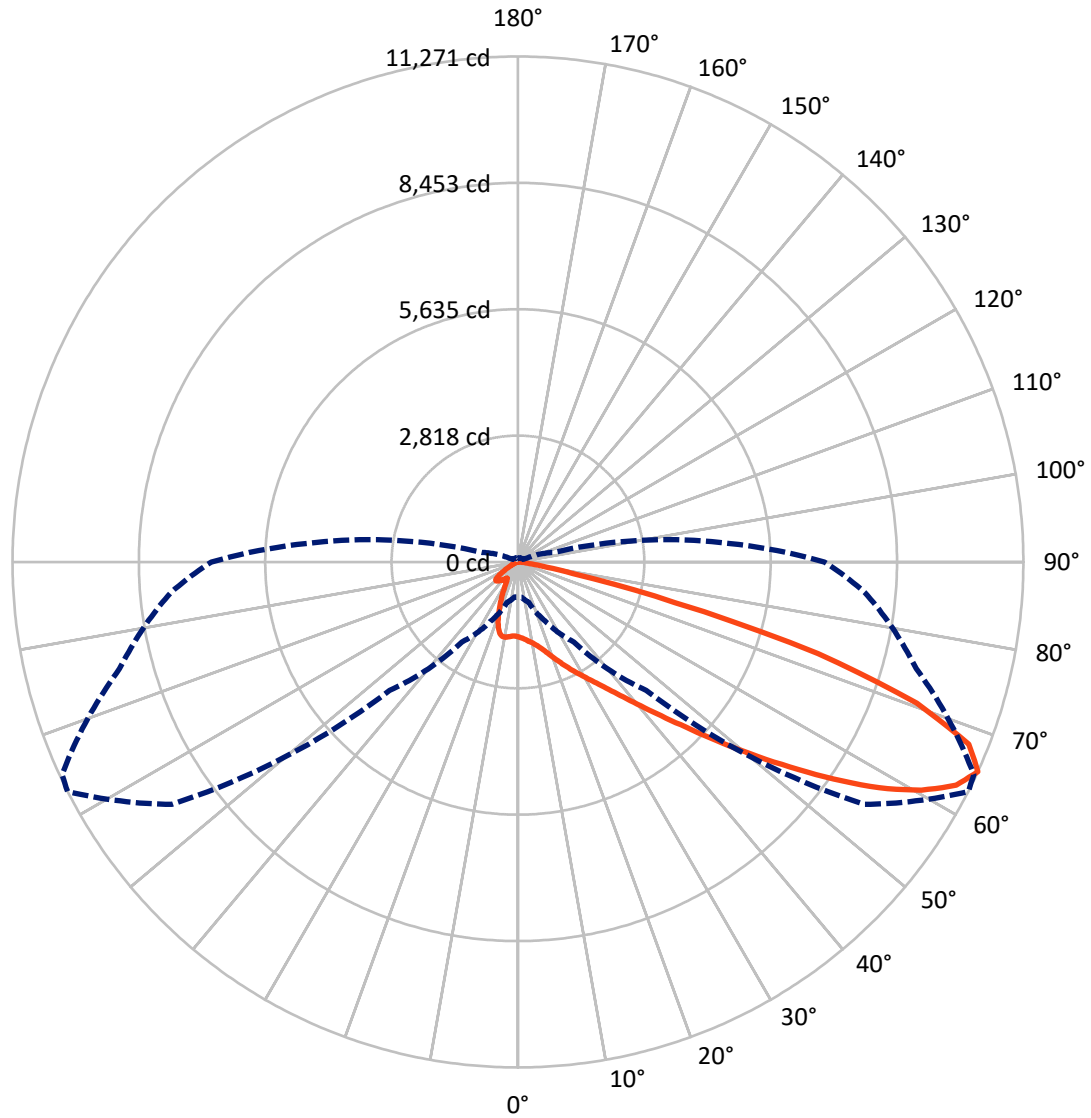
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	1987.9	0.0	1987.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	11536.1	0.0	11536.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	13524.0	0.0	13524.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	1.2
10°-20°	436.3	3.2
20°-30°	759.8	5.6
30°-40°	1369.4	10.1
40°-50°	2716.0	20.1
50°-60°	3699.7	27.4
60°-70°	2953.1	21.8
70°-80°	1336.3	9.9
80°-90°	96.1	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°	13524.0	100.0
0°-180°	13524.0	100.0

**Coefficient of Utilization**



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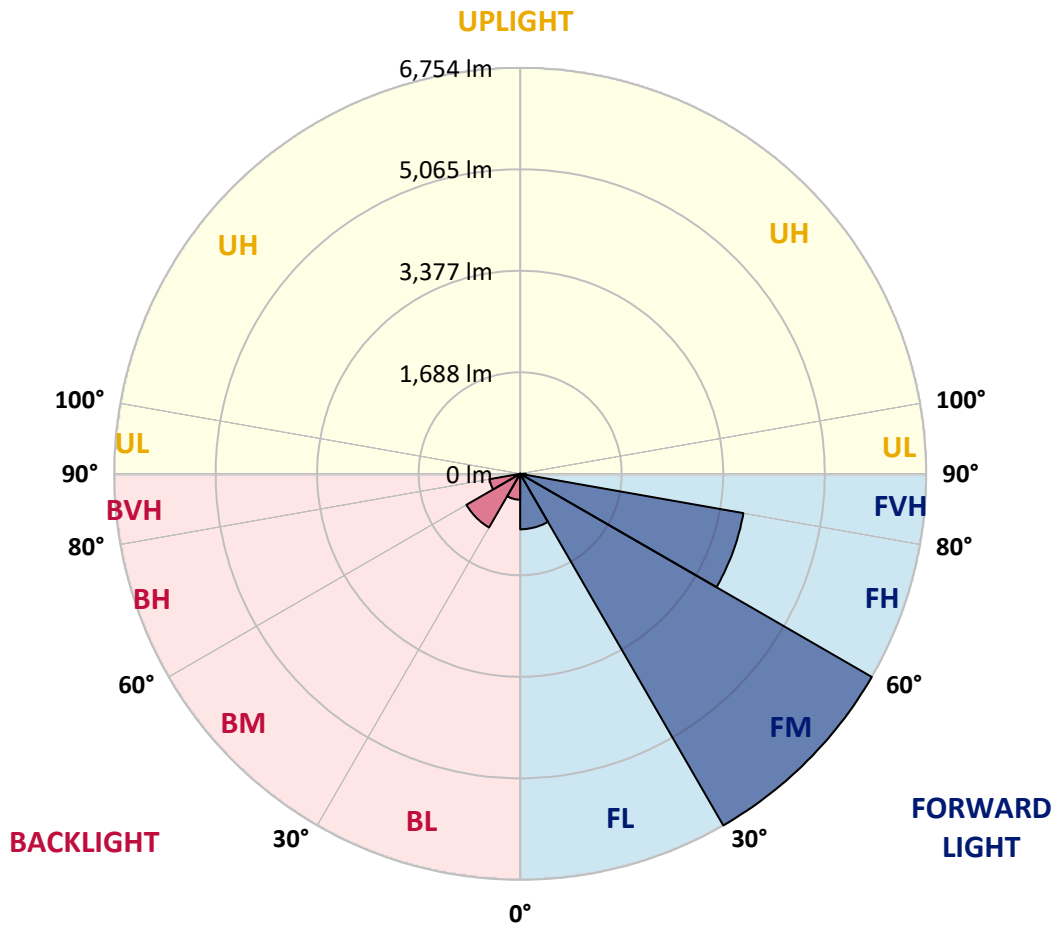
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.2	6.8			
FM (30°-60°)	6753.5	49.9			
FH (60°-80°)	3770.4	27.9			G2/5000
FVH (80°-90°)	88.9	0.7			G1/100
BL (0°-30°)	430.2	3.2	B1/500		
BM (30°-60°)	1031.6	7.6	B2/2500		
BH (60°-80°)	519.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.1	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1
2.5°	1708.2	1703.5	1710.1	1707.3	1705.4	1701.7	1699.8	1698.0	1694.2	1691.4
5°	1712.8	1710.1	1716.6	1722.1	1727.7	1733.3	1736.1	1739.8	1736.1	1728.7
7.5°	1673.8	1671.9	1685.9	1702.6	1727.7	1749.1	1772.4	1785.4	1786.3	1783.6
10°	1671.0	1666.3	1680.3	1700.8	1733.3	1771.5	1812.4	1840.3	1844.0	1856.1
12.5°	1714.7	1710.1	1729.6	1751.9	1785.4	1825.4	1875.7	1914.7	1920.3	1937.1
15°	1788.2	1781.7	1804.0	1832.9	1875.7	1921.3	1974.3	2009.6	2014.3	2034.8
17.5°	1873.8	1867.3	1893.3	1924.0	1970.6	2032.9	2094.3	2133.4	2139.0	2152.0
20°	1983.6	1975.2	1995.7	2023.6	2072.9	2147.3	2220.8	2276.7	2275.7	2275.7
22.5°	2111.1	2098.0	2115.7	2138.0	2184.6	2274.8	2372.5	2438.5	2438.5	2412.5
25°	2247.8	2234.8	2254.3	2274.8	2315.7	2418.1	2532.5	2614.4	2618.1	2573.5
27.5°	2419.0	2402.3	2417.1	2441.3	2465.5	2569.7	2705.6	2800.5	2802.3	2733.5
30°	2748.4	2700.9	2654.4	2628.3	2639.5	2742.8	2887.9	2993.1	3002.4	2907.5
32.5°	3351.3	3342.0	3178.2	2964.2	2852.6	2928.9	3091.7	3218.2	3223.8	3101.9
35°	4288.2	4277.0	4013.7	3606.2	3242.4	3178.2	3339.2	3489.0	3485.2	3347.5
37.5°	5406.5	5396.3	5049.2	4504.0	3915.1	3555.0	3658.3	3815.5	3838.8	3658.3
40°	6362.0	6323.9	6104.3	5578.6	4808.2	4180.2	4112.3	4216.5	4240.7	4026.7
42.5°	7085.8	7053.3	6941.6	6613.2	5889.4	5105.0	4647.3	4687.3	4714.3	4457.5
45°	7460.8	7453.3	7498.0	7467.3	6990.9	6240.1	5412.1	5245.5	5255.8	4934.8
47.5°	7513.8	7510.1	7713.9	8002.3	7938.1	7520.3	6393.6	5941.5	5905.2	5473.5
50°	7201.2	7193.8	7584.5	8125.1	8570.7	8595.9	7508.2	6725.8	6645.8	6030.8
52.5°	6202.9	6201.0	6843.0	7742.7	8793.1	9537.4	8609.8	7587.3	7453.3	6620.6
55°	4772.9	4807.3	5543.3	6606.7	8387.5	9990.5	9598.8	8543.8	8338.1	7214.2
57.5°	3381.0	3431.3	4158.8	5106.0	7129.6	9722.6	10267.8	9502.1	9280.6	7806.0
60°	1816.1	1860.8	2589.3	3719.7	5304.1	8723.3	10620.4	10333.8	10124.5	8367.9
62.5°	1082.0	1096.9	1398.4	2401.3	3587.6	6664.4	10470.6	10967.4	10795.3	8839.6
65°	776.9	779.7	931.3	1466.3	2178.0	4049.1	9420.2	11270.7	11217.7	9195.0
67.5°	654.1	652.2	715.5	974.1	1484.0	2028.2	7219.8	10841.8	11067.0	9420.2
70°	561.0	563.8	638.2	713.6	1115.5	1148.1	3589.4	9439.7	9919.8	9479.7
72.5°	417.7	427.0	495.9	650.3	842.0	789.9	1239.3	6999.3	7867.4	8931.7
75°	294.9	299.6	348.9	547.1	628.0	575.0	632.7	3618.3	4731.0	6847.7
77.5°	227.0	235.4	264.2	382.4	618.7	403.8	387.0	1252.3	1924.0	4136.5
80°	122.8	137.7	190.7	276.3	434.5	285.6	191.7	498.7	652.2	1934.3
82.5°	63.3	70.7	133.0	199.1	247.5	249.3	94.9	207.5	268.9	597.3
85°	25.1	30.7	89.3	109.8	127.5	122.8	42.8	83.7	96.8	165.6
87.5°	5.6	9.3	32.6	25.1	24.2	26.1	10.2	19.5	18.6	19.5
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°
1669.1	0°	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1
1680.3	2.5°	1679.4	1675.6	1665.4	1654.2	1641.2	1633.8	1629.1	1628.2	1621.7	1617.0
1717.5	5°	1707.3	1703.5	1684.0	1660.7	1635.6	1616.1	1597.5	1580.7	1556.5	1551.9
1771.5	7.5°	1763.1	1752.9	1721.2	1689.6	1642.1	1585.4	1516.5	1437.5	1366.7	1345.3
1843.1	10°	1831.9	1818.0	1778.0	1722.1	1617.0	1462.6	1296.0	1141.6	1018.8	984.4
1927.8	12.5°	1910.1	1898.0	1845.0	1741.7	1511.9	1231.8	976.9	785.2	666.2	636.4
2018.0	15°	2003.1	1985.4	1911.9	1711.9	1323.9	936.0	670.8	557.3	514.5	508.9
2121.3	17.5°	2101.7	2072.9	1971.5	1604.9	1070.9	665.2	518.2	485.7	467.1	461.5
2225.5	20°	2192.0	2154.8	2006.8	1443.0	800.1	518.2	464.3	442.9	426.1	419.6
2329.7	22.5°	2282.2	2229.2	2006.8	1222.5	600.1	459.6	426.1	406.6	387.0	378.7
2441.3	25°	2376.2	2305.5	1971.5	976.9	482.9	421.5	389.8	368.4	351.7	341.5
2547.4	27.5°	2467.4	2369.7	1890.5	744.3	429.8	388.0	356.3	335.9	320.1	312.6
2662.8	30°	2553.9	2433.0	1777.0	564.7	395.4	355.4	325.6	308.0	292.1	284.7
2812.6	32.5°	2671.1	2513.0	1656.1	463.3	365.6	324.7	297.7	281.0	267.0	261.4
3007.0	35°	2834.0	2631.1	1551.9	455.0	340.5	299.6	272.6	256.8	242.8	238.2
3258.2	37.5°	3064.7	2821.9	1497.0	510.8	320.1	277.3	252.1	235.4	222.4	218.6
3577.3	40°	3349.4	3080.5	1526.8	566.6	306.1	257.7	233.5	216.8	205.6	201.0
3943.9	42.5°	3687.1	3399.6	1691.4	609.4	296.8	241.0	215.9	197.2	189.8	187.9
4359.8	45°	4075.1	3750.4	1943.6	655.0	281.9	225.2	198.2	184.2	178.6	177.7
4812.0	47.5°	4516.1	4135.6	2235.7	711.7	267.0	210.3	184.2	174.9	170.3	168.4
5283.7	50°	4953.4	4523.5	2536.2	743.4	254.9	196.3	173.1	165.6	161.9	161.0
5782.4	52.5°	5411.1	4922.7	2779.1	713.6	244.7	185.1	163.7	158.2	154.4	153.5
6242.0	55°	5847.5	5245.5	2820.9	605.7	224.2	174.0	153.5	150.7	146.1	146.1
6708.1	57.5°	6223.4	5407.4	2525.1	444.7	203.8	157.2	143.3	140.5	136.8	135.8
7128.6	60°	6568.5	5360.9	1949.2	299.6	181.4	140.5	130.3	128.4	124.7	120.0
7494.3	62.5°	6763.0	5156.2	1333.2	195.4	159.1	122.8	115.4	114.4	106.1	96.8
7765.0	65°	6836.5	4735.7	831.8	142.3	133.0	105.1	99.6	97.7	85.6	75.4
7918.5	67.5°	6772.3	4043.5	419.6	112.6	105.1	87.5	81.9	81.9	73.5	64.2
7909.2	70°	6515.5	3031.2	176.8	90.2	80.9	67.0	67.0	70.7	62.3	52.1
7498.9	72.5°	5958.2	2039.4	94.0	68.8	60.5	47.4	54.9	57.7	49.3	39.1
6137.8	75°	4736.6	1243.9	65.1	51.2	38.1	33.5	41.9	43.7	33.5	26.1
4208.1	77.5°	3239.6	714.5	43.7	32.6	24.2	19.5	28.8	27.0	17.7	12.1
1622.6	80°	1422.6	297.7	25.1	14.9	9.3	7.4	10.2	7.4	5.6	3.7
222.4	82.5°	166.5	69.8	9.3	5.6	3.7	1.9	0.9	0.0	0.0	0.0
67.9	85°	34.4	8.4	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
12.1	87.5°	6.5	1.9	0.9	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>
1669.1
1621.7
1550.0
1335.1
971.3
628.0
503.3
458.7
415.9
374.0
337.7
312.6
285.6
261.4
238.2
217.7
200.0
187.9
176.8
168.4
161.0
153.5
145.1
134.9
119.1
94.9
74.4
63.3
51.2
39.1
25.1
13.0
3.7
0.0
0.0
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