

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: P942406

Luminaire Tested: **GALN-SB6B-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942406
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-SB6B-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 2700K, 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: 16301 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

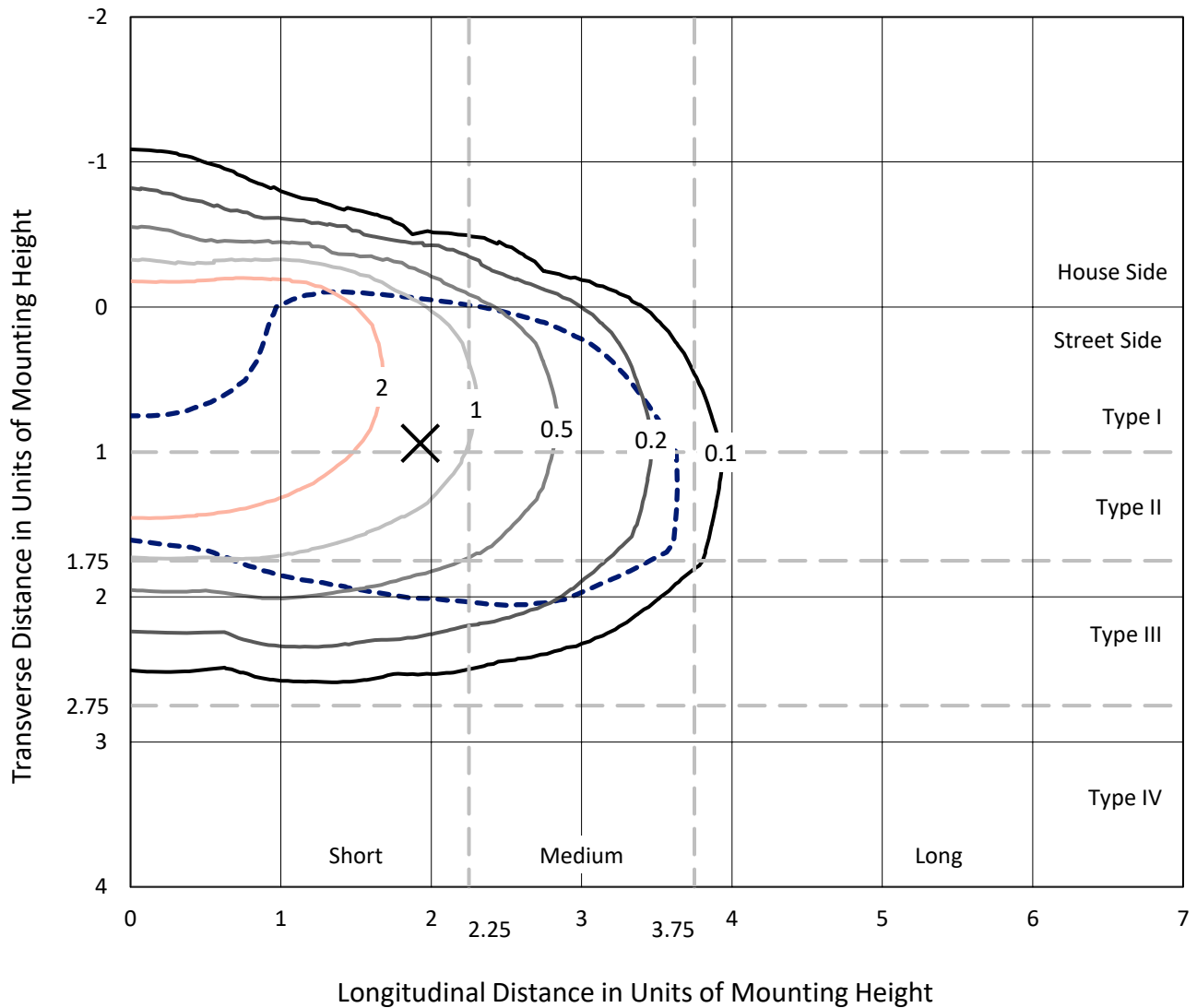
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

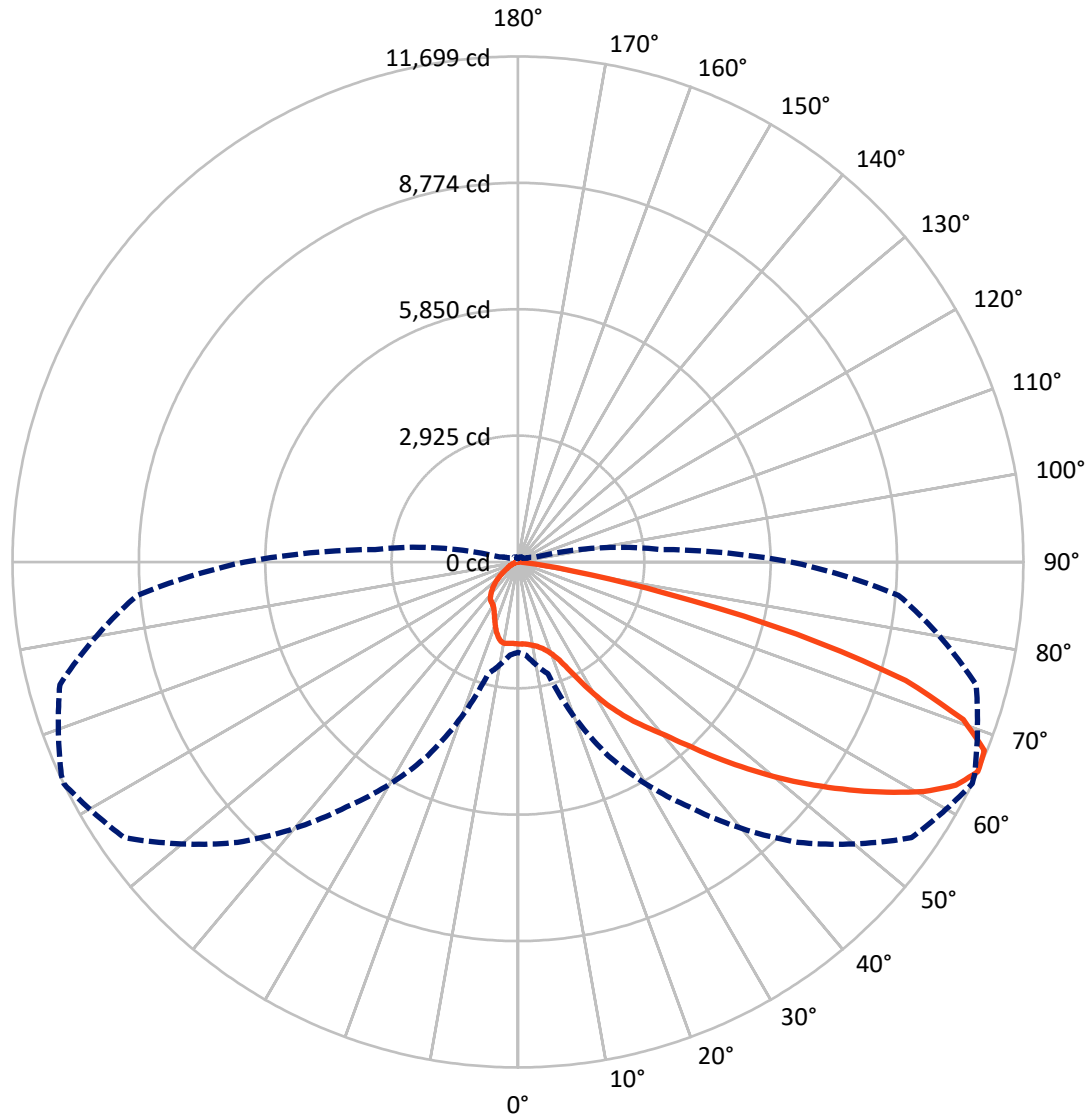
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
House Side	Lumens	2179.9	0.0	2179.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14121.1	0.0	14121.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	16301.0	0.0	16301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	1.1
10°-20°	474.4	2.9
20°-30°	899.0	5.5
30°-40°	1819.2	11.2
40°-50°	3099.0	19.0
50°-60°	4214.4	25.9
60°-70°	3957.6	24.3
70°-80°	1585.6	9.7
80°-90°	76.8	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°	16301.0	100.0
0°-180°	16301.0	100.0

Coefficient of Utilization



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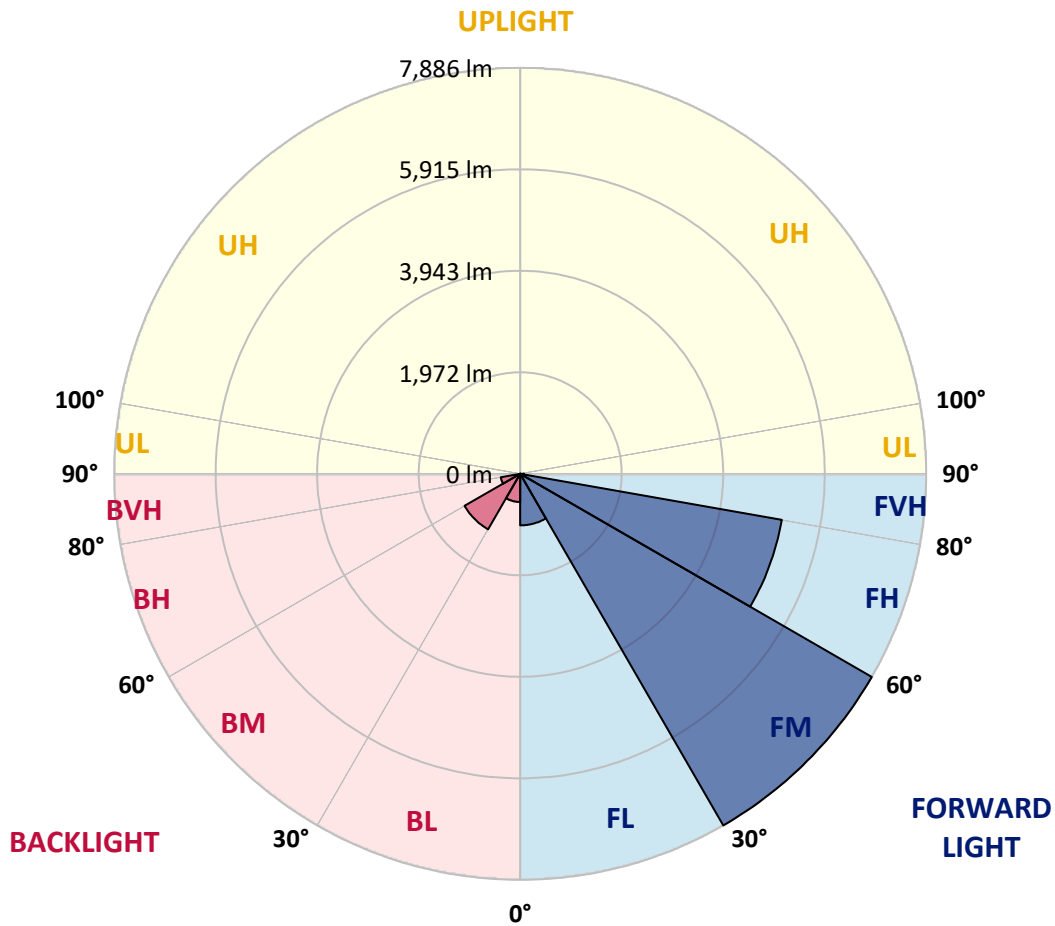
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.1	6.1			
FM (30°-60°)	7886.4	48.4			
FH (60°-80°)	5160.5	31.7			G3/7500
FVH (80°-90°)	73.1	0.4			G1/100
BL (0°-30°)	547.3	3.4	B2/1000		
BM (30°-60°)	1246.3	7.6	B2/2500		
BH (60°-80°)	382.6	2.3	B1/500		G1/500
BVH (80°-90°)	3.8	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1889.4	1902.5	1899.3	1896.0	1894.9	1897.1	1898.2	1897.1	1897.1	1897.1
5°	1853.4	1864.3	1864.3	1871.9	1882.9	1896.0	1905.8	1908.0	1910.2	1913.5
7.5°	1784.5	1793.3	1799.8	1824.9	1852.3	1887.2	1916.7	1932.0	1934.2	1946.2
10°	1737.5	1748.5	1759.4	1785.6	1824.9	1877.4	1927.7	1964.8	1970.3	1998.7
12.5°	1735.3	1746.3	1760.5	1788.9	1834.8	1890.5	1951.7	2005.3	2015.1	2056.6
15°	1758.3	1771.4	1784.5	1819.5	1868.7	1936.4	2002.0	2068.6	2078.5	2137.5
17.5°	1805.3	1822.8	1832.6	1867.6	1920.0	1995.4	2081.7	2158.2	2167.0	2235.8
20°	1898.2	1918.9	1922.2	1950.6	2002.0	2082.8	2185.6	2280.6	2291.6	2370.2
22.5°	2090.5	2120.0	2093.8	2108.0	2153.9	2234.7	2346.2	2466.4	2481.7	2571.3
25°	2429.3	2470.8	2403.0	2379.0	2398.7	2482.8	2622.7	2774.6	2792.1	2864.2
27.5°	3094.8	3041.2	2938.5	2838.0	2778.9	2827.0	2984.4	3172.3	3194.2	3264.1
30°	3825.8	3778.8	3640.1	3417.1	3277.3	3269.6	3414.9	3624.8	3649.9	3716.5
32.5°	4558.0	4513.2	4362.4	4088.1	3845.5	3725.3	3825.8	4058.6	4071.7	4114.3
35°	5278.1	5232.2	5081.4	4800.6	4502.3	4229.1	4209.4	4471.7	4476.0	4520.8
37.5°	6002.6	5964.4	5803.8	5528.4	5234.4	4857.4	4674.9	4862.9	4868.3	4912.1
40°	6519.5	6535.9	6425.6	6212.5	5960.0	5548.1	5197.3	5279.2	5246.4	5319.7
42.5°	6963.2	6996.0	6899.8	6792.7	6646.3	6283.5	5844.2	5830.0	5777.5	5816.9
45°	7346.8	7374.1	7287.8	7262.6	7259.3	7004.7	6551.2	6466.0	6392.8	6385.1
47.5°	7487.7	7540.2	7577.3	7661.5	7825.4	7718.3	7282.3	7150.1	7068.1	7008.0
50°	7541.3	7597.0	7723.8	7968.6	8356.5	8402.4	8010.1	7861.5	7760.9	7651.7
52.5°	7469.2	7568.6	7739.1	8151.1	8713.8	8951.0	8708.4	8578.3	8463.6	8285.5
55°	7044.1	7143.5	7492.1	8148.9	8892.0	9335.6	9368.4	9310.5	9181.5	8900.7
57.5°	6148.0	6295.5	6847.4	7871.3	8888.7	9666.7	10015.3	10056.9	9912.6	9510.5
60°	4906.6	5106.6	5779.7	7256.1	8614.4	9846.0	10582.5	10790.1	10637.1	10111.5
62.5°	3423.7	3655.4	4292.4	6292.2	7987.1	9717.0	10996.7	11380.2	11264.4	10649.2
65°	2088.3	2162.6	2676.2	4951.4	6920.6	9177.2	11124.5	11699.3	11661.1	10978.1
67.5°	1391.1	1453.4	1600.9	3395.3	5372.1	8098.6	10818.5	11643.6	11654.5	10924.5
70°	838.2	891.7	987.9	1974.7	3481.6	6410.3	9871.1	10933.3	10996.7	10208.8
72.5°	345.3	381.4	468.8	895.0	1803.1	4068.4	7860.4	9387.0	9534.5	8583.8
75°	195.6	214.2	275.4	449.1	782.4	1896.0	4761.2	6663.8	6881.2	5916.3
77.5°	130.0	138.8	178.1	290.7	440.4	646.9	2034.8	3471.8	3887.0	3231.4
80°	87.4	95.1	122.4	194.5	286.3	277.6	648.0	1286.2	1582.3	1110.3
82.5°	59.0	60.1	87.4	127.9	181.4	134.4	191.2	400.0	502.7	321.3
85°	33.9	32.8	64.5	74.3	80.9	55.7	57.9	120.2	157.4	135.5
87.5°	4.4	6.6	25.1	19.7	10.9	12.0	12.0	20.8	30.6	32.8
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°
1896.0	0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
1898.2	2.5°	1898.2	1897.1	1893.8	1890.5	1882.9	1878.5	1880.7	1878.5	1877.4	1878.5
1912.4	5°	1912.4	1909.1	1900.3	1889.4	1874.1	1855.5	1843.5	1826.0	1809.6	1799.8
1950.6	7.5°	1950.6	1947.3	1935.3	1904.7	1855.5	1778.0	1706.9	1644.6	1597.6	1570.3
2011.8	10°	2011.8	2006.3	1987.8	1920.0	1791.1	1621.7	1480.7	1363.8	1287.3	1251.2
2083.9	12.5°	2083.9	2077.4	2044.6	1905.8	1668.7	1404.2	1209.7	1079.7	1008.6	976.9
2167.0	15°	2169.2	2160.4	2096.0	1838.1	1490.6	1163.8	985.7	888.4	842.5	814.1
2273.0	17.5°	2275.2	2259.9	2134.2	1736.4	1297.1	980.2	848.0	774.8	734.3	707.0
2411.8	20°	2412.9	2387.7	2164.8	1615.1	1119.0	864.4	755.1	693.9	663.3	639.3
2608.5	22.5°	2605.2	2569.1	2202.0	1484.0	993.3	784.6	686.3	641.5	616.3	589.0
2882.8	25°	2843.4	2800.8	2247.9	1362.7	907.0	715.8	636.0	598.8	569.3	537.6
3242.3	27.5°	3176.7	3100.2	2302.5	1263.3	832.7	656.8	590.1	548.6	514.7	488.5
3649.9	30°	3548.3	3422.6	2350.6	1203.2	764.9	602.1	530.0	488.5	456.8	438.2
4016.0	32.5°	3900.1	3729.7	2382.3	1176.9	703.8	539.8	464.4	419.6	395.6	390.1
4374.4	35°	4232.3	4007.2	2379.0	1151.8	649.1	477.5	400.0	354.1	335.5	338.8
4760.2	37.5°	4614.8	4303.4	2356.0	1112.5	604.3	420.7	344.2	303.8	287.4	288.5
5229.0	40°	5059.6	4645.4	2341.8	1038.1	555.1	368.3	298.3	265.5	253.5	249.2
5722.9	42.5°	5533.8	4976.5	2344.0	954.0	493.9	321.3	266.6	239.3	228.4	225.1
6272.6	45°	6010.3	5292.3	2347.3	866.6	429.5	285.2	243.7	220.7	214.2	209.8
6829.9	47.5°	6458.3	5561.2	2286.1	772.6	366.1	257.9	225.1	209.8	204.4	198.9
7389.4	50°	6875.8	5740.4	2138.6	663.3	315.8	236.0	210.9	200.0	194.5	189.1
7896.4	52.5°	7200.3	5768.8	1894.9	550.8	280.8	219.6	202.2	192.3	185.8	180.3
8306.2	55°	7344.6	5590.7	1548.5	445.9	253.5	205.4	193.4	183.6	175.9	170.5
8628.6	57.5°	7307.4	5215.8	1207.5	358.4	227.3	191.2	182.5	175.9	167.2	158.5
8889.8	60°	7124.9	4714.3	910.3	298.3	203.3	175.9	170.5	165.0	153.0	139.9
8990.3	62.5°	6809.1	4083.7	649.1	247.0	177.0	158.5	156.3	151.9	134.4	110.4
8841.7	65°	6326.1	3317.7	437.1	205.4	151.9	138.8	139.9	132.2	109.3	82.0
8297.5	67.5°	5620.2	2426.0	279.8	168.3	126.8	115.8	116.9	112.6	92.9	69.9
7265.9	70°	4720.8	1606.4	182.5	127.9	101.6	89.6	96.2	97.3	78.7	56.8
5576.5	72.5°	3460.8	948.5	127.9	95.1	74.3	62.3	78.7	80.9	63.4	42.6
3354.8	75°	1972.5	450.2	96.2	68.8	45.9	43.7	61.2	61.2	43.7	28.4
1452.3	77.5°	828.3	188.0	67.8	44.8	26.2	25.1	41.5	38.2	21.9	13.1
354.1	80°	239.3	84.1	36.1	21.9	10.9	9.8	16.4	12.0	5.5	2.2
134.4	82.5°	94.0	37.2	14.2	8.7	4.4	4.4	2.2	0.0	0.0	0.0
76.5	85°	55.7	15.3	6.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0
16.4	87.5°	14.2	3.3	2.2	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>
1896.0
1882.9
1802.0
1571.4
1248.0
973.7
815.2
704.8
634.9
584.6
534.4
483.0
434.9
393.4
338.8
292.9
248.1
224.0
209.8
198.9
189.1
179.2
169.4
157.4
137.7
108.2
79.8
66.7
54.6
40.4
26.2
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