

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: P951250

Luminaire Tested: **GALN-SB5B-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951250
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-SB5B-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 15123 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

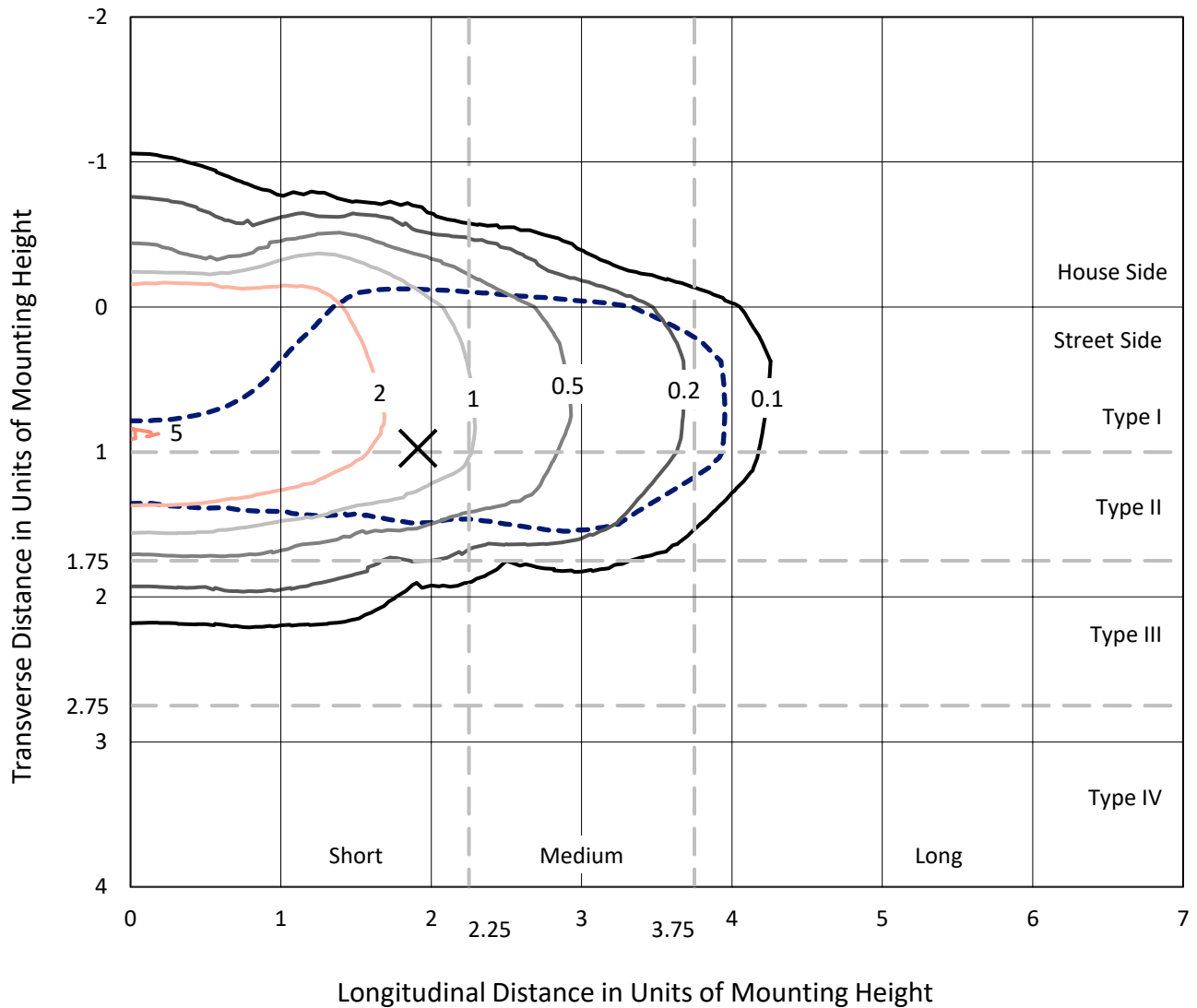
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

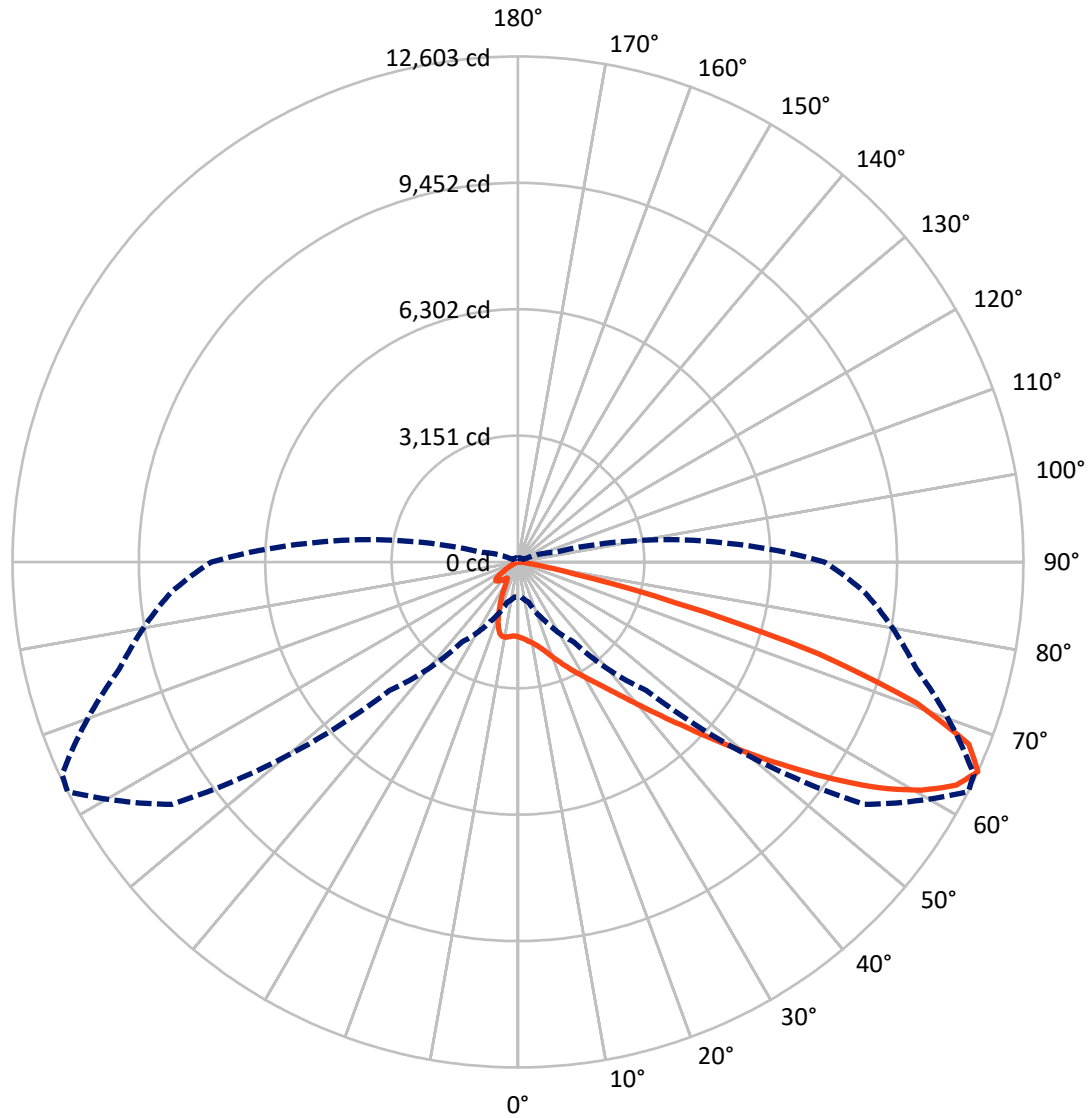
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	2223.0	0.0	2223.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12900.0	0.0	12900.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	15123.0	0.0	15123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	1.2
10°-20°	487.9	3.2
20°-30°	849.6	5.6
30°-40°	1531.4	10.1
40°-50°	3037.2	20.1
50°-60°	4137.1	27.4
60°-70°	3302.2	21.8
70°-80°	1494.3	9.9
80°-90°	107.4	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°	15123.0	100.0
0°-180°	15123.0	100.0

Coefficient of Utilization



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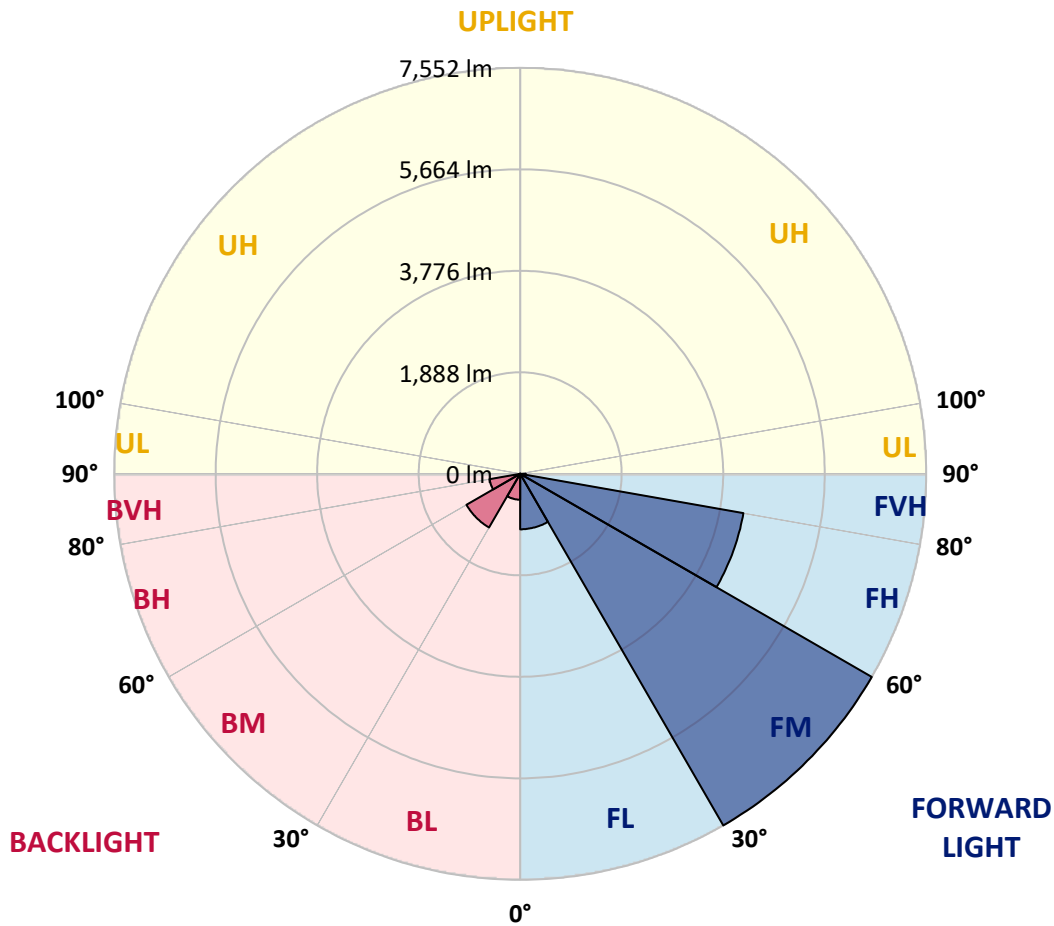
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.3	6.8			
FM (30°-60°)	7552.0	49.9			
FH (60°-80°)	4216.2	27.9			G2/5000
FVH (80°-90°)	99.4	0.7			G1/100
BL (0°-30°)	481.1	3.2	B1/500		
BM (30°-60°)	1153.6	7.6	B2/2500		
BH (60°-80°)	580.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.0	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°	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5
2.5°	1910.2	1905.0	1912.2	1909.1	1907.0	1902.9	1900.8	1898.7	1894.6	1891.4
5°	1915.4	1912.2	1919.5	1925.8	1932.0	1938.3	1941.4	1945.5	1941.4	1933.0
7.5°	1871.7	1869.6	1885.2	1903.9	1932.0	1955.9	1981.9	1996.5	1997.6	1994.4
10°	1868.5	1863.3	1878.9	1901.8	1938.3	1980.9	2026.7	2057.9	2062.1	2075.6
12.5°	1917.4	1912.2	1934.1	1959.1	1996.5	2041.2	2097.4	2141.1	2147.4	2166.1
15°	1999.6	1992.4	2017.3	2049.6	2097.4	2148.4	2207.7	2247.2	2252.4	2275.3
17.5°	2095.4	2088.1	2117.2	2151.5	2203.6	2273.3	2341.9	2385.6	2391.9	2406.4
20°	2218.1	2208.8	2231.6	2262.9	2318.0	2401.2	2483.4	2545.8	2544.8	2544.8
22.5°	2360.7	2346.1	2365.9	2390.8	2442.8	2543.8	2653.0	2726.9	2726.9	2697.7
25°	2513.6	2499.0	2520.9	2543.8	2589.5	2704.0	2831.9	2923.5	2927.7	2877.7
27.5°	2705.0	2686.3	2702.9	2730.0	2757.0	2873.6	3025.5	3131.6	3133.7	3056.7
30°	3073.3	3020.3	2968.2	2939.1	2951.6	3067.1	3229.4	3346.9	3357.3	3251.2
32.5°	3747.5	3737.1	3554.0	3314.7	3189.8	3275.2	3457.2	3598.7	3605.0	3468.7
35°	4795.2	4782.7	4488.3	4032.6	3625.8	3554.0	3734.0	3901.5	3897.3	3743.3
37.5°	6045.7	6034.3	5646.2	5036.5	4378.0	3975.3	4090.8	4266.6	4292.7	4090.8
40°	7114.2	7071.5	6826.0	6238.2	5376.7	4674.5	4598.5	4715.1	4742.1	4502.8
42.5°	7923.6	7887.2	7762.4	7395.1	6585.7	5708.6	5196.8	5241.5	5271.7	4984.5
45°	8342.9	8334.6	8384.5	8350.2	7817.5	6977.9	6052.0	5865.7	5877.2	5518.2
47.5°	8402.2	8398.0	8625.9	8948.4	8876.6	8409.5	7149.6	6643.9	6603.4	6120.6
50°	8052.6	8044.3	8481.3	9085.7	9584.1	9612.2	8396.0	7521.0	7431.5	6743.8
52.5°	6936.3	6934.2	7652.1	8658.1	9832.7	10665.1	9627.8	8484.4	8334.6	7403.4
55°	5337.2	5375.7	6198.7	7387.8	9379.1	11171.7	10733.7	9553.9	9324.0	8067.2
57.5°	3780.8	3837.0	4650.6	5709.7	7972.5	10872.1	11481.8	10625.5	10377.9	8728.9
60°	2030.8	2080.8	2895.4	4159.5	5931.3	9754.7	11876.1	11555.6	11321.5	9357.3
62.5°	1210.0	1226.6	1563.7	2685.3	4011.8	7452.3	11708.6	12264.1	12071.7	9884.8
65°	868.7	871.8	1041.4	1639.7	2435.6	4527.8	10534.0	12603.3	12544.0	10282.2
67.5°	731.4	729.3	800.1	1089.3	1659.4	2268.1	8073.4	12123.7	12375.5	10534.0
70°	627.4	630.5	713.7	798.0	1247.4	1283.8	4013.8	10555.8	11092.7	10600.6
72.5°	467.1	477.5	554.5	727.2	941.6	883.3	1385.8	7826.9	8797.6	9987.8
75°	329.8	335.0	390.1	611.8	702.3	643.0	707.5	4046.1	5290.4	7657.3
77.5°	253.9	263.2	295.5	427.6	691.9	451.5	432.8	1400.4	2151.5	4625.6
80°	137.3	154.0	213.3	309.0	485.9	319.4	214.3	557.7	729.3	2163.0
82.5°	70.7	79.1	148.8	222.6	276.7	278.8	106.1	232.0	300.7	667.9
85°	28.1	34.3	99.9	122.8	142.5	137.3	47.9	93.6	108.2	185.2
87.5°	6.2	10.4	36.4	28.1	27.1	29.1	11.4	21.8	20.8	21.8
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°
1866.5	0°	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5
1878.9	2.5°	1877.9	1873.7	1862.3	1849.8	1835.3	1826.9	1821.7	1820.7	1813.4	1808.2
1920.6	5°	1909.1	1905.0	1883.1	1857.1	1829.0	1807.2	1786.4	1767.6	1740.6	1735.4
1980.9	7.5°	1971.5	1960.1	1924.7	1889.4	1836.3	1772.8	1695.8	1607.4	1528.3	1504.4
2061.0	10°	2048.5	2032.9	1988.2	1925.8	1808.2	1635.5	1449.3	1276.6	1139.2	1100.7
2155.7	12.5°	2135.9	2122.4	2063.1	1947.6	1690.6	1377.5	1092.4	878.1	744.9	711.6
2256.6	15°	2240.0	2220.2	2138.0	1914.3	1480.5	1046.6	750.1	623.2	575.3	569.1
2372.1	17.5°	2350.2	2318.0	2204.6	1794.7	1197.5	743.9	579.5	543.1	522.3	516.0
2488.6	20°	2451.2	2409.5	2244.1	1613.6	894.7	579.5	519.2	495.2	476.5	469.2
2605.1	22.5°	2552.1	2492.8	2244.1	1367.1	671.1	514.0	476.5	454.7	432.8	423.4
2730.0	25°	2657.2	2578.1	2204.6	1092.4	540.0	471.3	435.9	412.0	393.3	381.8
2848.6	27.5°	2759.1	2649.9	2114.1	832.3	480.7	433.8	398.5	375.6	357.9	349.6
2977.6	30°	2855.9	2720.6	1987.1	631.5	442.2	397.4	364.1	344.4	326.7	318.4
3145.1	32.5°	2987.0	2810.1	1851.9	518.1	408.9	363.1	332.9	314.2	298.6	292.4
3362.5	35°	3169.0	2942.2	1735.4	508.8	380.8	335.0	304.8	287.1	271.5	266.3
3643.5	37.5°	3427.1	3155.5	1674.0	571.2	357.9	310.0	281.9	263.2	248.7	244.5
4000.3	40°	3745.4	3444.7	1707.3	633.6	342.3	288.2	261.1	242.4	229.9	224.7
4410.2	42.5°	4123.1	3801.6	1891.4	681.5	331.9	269.5	241.4	220.6	212.2	210.2
4875.3	45°	4556.9	4193.8	2173.4	732.4	315.2	251.8	221.6	206.0	199.8	198.7
5380.9	47.5°	5050.1	4624.5	2500.1	795.9	298.6	235.1	206.0	195.6	190.4	188.3
5908.4	50°	5539.0	5058.4	2836.1	831.3	285.1	219.5	193.5	185.2	181.0	180.0
6466.0	52.5°	6050.9	5504.7	3107.7	798.0	273.6	207.0	183.1	176.9	172.7	171.7
6980.0	55°	6538.9	5865.7	3154.5	677.3	250.7	194.6	171.7	168.5	163.3	163.3
7501.2	57.5°	6959.2	6046.8	2823.6	497.3	227.8	175.8	160.2	157.1	152.9	151.9
7971.5	60°	7345.2	5994.7	2179.6	335.0	202.9	157.1	145.7	143.6	139.4	134.2
8380.4	62.5°	7562.6	5765.9	1490.9	218.5	177.9	137.3	129.0	128.0	118.6	108.2
8683.1	65°	7644.8	5295.6	930.1	159.2	148.8	117.6	111.3	109.2	95.7	84.3
8854.8	67.5°	7573.0	4521.5	469.2	125.9	117.6	97.8	91.6	91.6	82.2	71.8
8844.4	70°	7285.9	3389.6	197.7	100.9	90.5	74.9	74.9	79.1	69.7	58.3
8385.6	72.5°	6662.7	2280.5	105.1	77.0	67.6	53.1	61.4	64.5	55.1	43.7
6863.5	75°	5296.6	1391.0	72.8	57.2	42.7	37.5	46.8	48.9	37.5	29.1
4705.7	77.5°	3622.6	799.0	48.9	36.4	27.1	21.8	32.3	30.2	19.8	13.5
1814.4	80°	1590.8	332.9	28.1	16.6	10.4	8.3	11.4	8.3	6.2	4.2
248.7	82.5°	186.2	78.0	10.4	6.2	4.2	2.1	1.0	0.0	0.0	0.0
75.9	85°	38.5	9.4	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
13.5	87.5°	7.3	2.1	1.0	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>
1866.5
1813.4
1733.3
1493.0
1086.2
702.3
562.9
512.9
465.1
418.2
377.7
349.6
319.4
292.4
266.3
243.5
223.7
210.2
197.7
188.3
180.0
171.7
162.3
150.9
133.2
106.1
83.2
70.7
57.2
43.7
28.1
14.6
4.2
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