

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: P941486

Luminaire Tested: **GALN-SB5A-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941486
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-SB5A-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 350mA 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: 18802 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

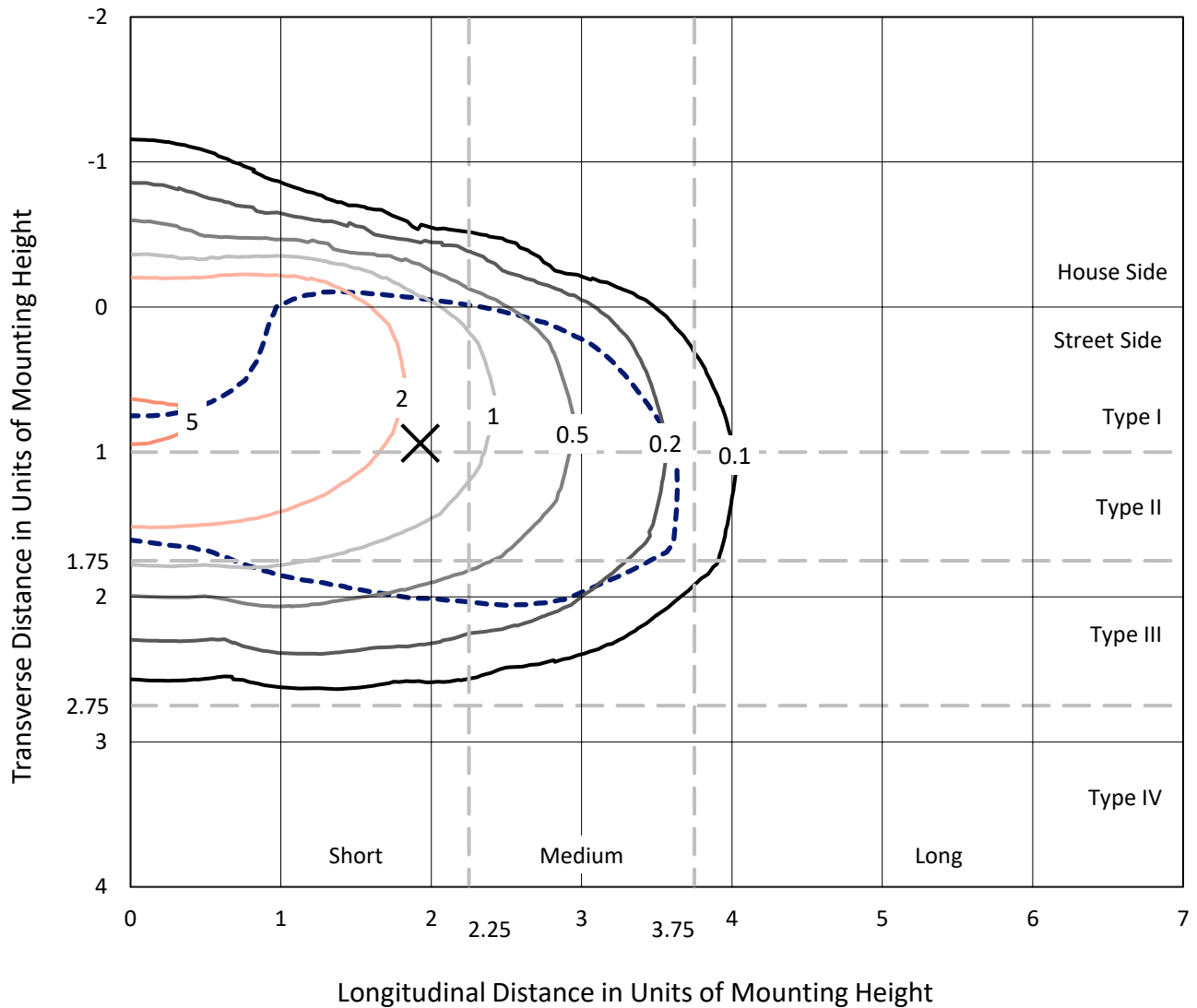
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

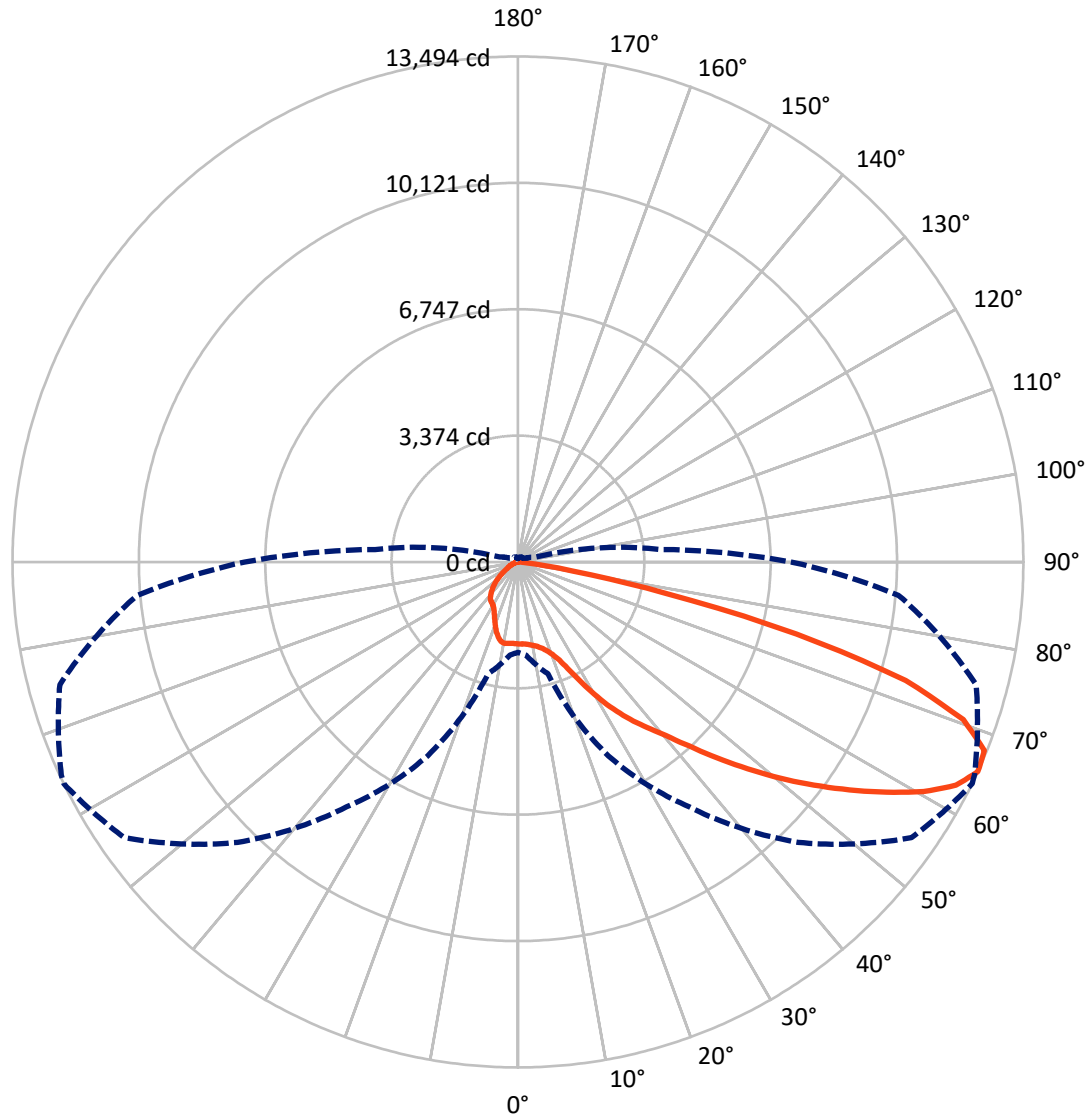
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2514.4	0.0	2514.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16287.6	0.0	16287.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	18802.0	0.0	18802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.1
10°-20°	547.2	2.9
20°-30°	1037.0	5.5
30°-40°	2098.3	11.2
40°-50°	3574.5	19.0
50°-60°	4861.0	25.9
60°-70°	4564.8	24.3
70°-80°	1828.8	9.7
80°-90°	88.6	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°	18802.0	100.0
0°-180°	18802.0	100.0

Coefficient of Utilization



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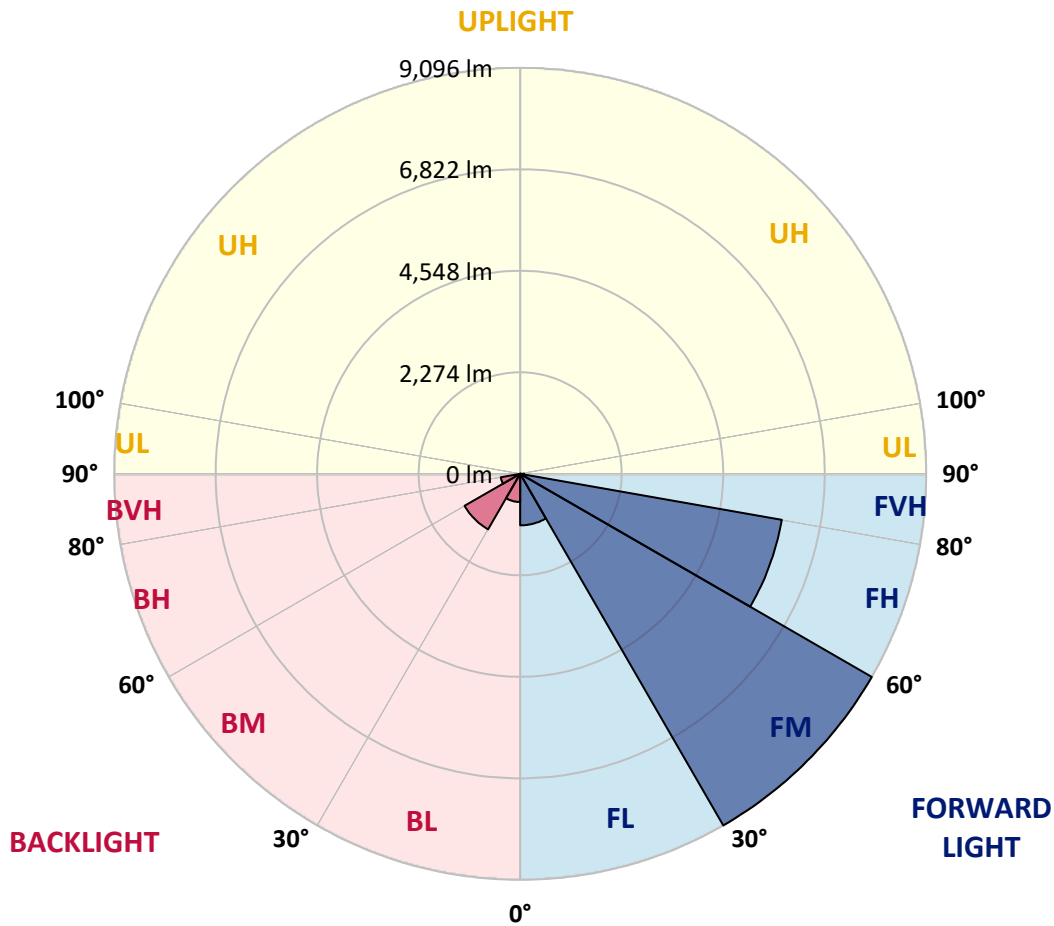
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.7	6.1			
FM (30°-60°)	9096.4	48.4			
FH (60°-80°)	5952.3	31.7			G3/7500
FVH (80°-90°)	84.3	0.4			G1/100
BL (0°-30°)	631.3	3.4	B2/1000		
BM (30°-60°)	1437.5	7.6	B2/2500		
BH (60°-80°)	441.3	2.3	B1/500		G1/500
BVH (80°-90°)	4.3	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°	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9
2.5°	2179.3	2194.4	2190.6	2186.9	2185.6	2188.1	2189.4	2188.1	2188.1	2188.1
5°	2137.7	2150.3	2150.3	2159.1	2171.7	2186.9	2198.2	2200.7	2203.3	2207.0
7.5°	2058.3	2068.4	2075.9	2104.9	2136.5	2176.8	2210.8	2228.5	2231.0	2244.8
10°	2004.1	2016.7	2029.3	2059.6	2104.9	2165.4	2223.4	2266.3	2272.6	2305.3
12.5°	2001.6	2014.2	2030.6	2063.3	2116.3	2180.6	2251.2	2312.9	2324.3	2372.2
15°	2028.1	2043.2	2058.3	2098.6	2155.4	2233.5	2309.1	2386.0	2397.4	2465.4
17.5°	2082.3	2102.4	2113.8	2154.1	2214.6	2301.6	2401.1	2489.4	2499.5	2578.9
20°	2189.4	2213.3	2217.1	2249.9	2309.1	2402.4	2520.9	2630.5	2643.1	2733.9
22.5°	2411.2	2445.3	2415.0	2431.4	2484.3	2577.6	2706.2	2844.8	2862.5	2965.8
25°	2802.0	2849.9	2771.7	2744.0	2766.7	2863.7	3025.1	3200.3	3220.4	3303.6
27.5°	3569.6	3507.8	3389.3	3273.4	3205.3	3260.8	3442.3	3659.1	3684.3	3764.9
30°	4412.8	4358.6	4198.5	3941.4	3780.1	3771.2	3938.9	4180.9	4209.9	4286.8
32.5°	5257.3	5205.6	5031.7	4715.3	4435.5	4296.8	4412.8	4681.3	4696.4	4745.6
35°	6087.9	6035.0	5861.1	5537.1	5193.0	4877.9	4855.2	5157.7	5162.8	5214.5
37.5°	6923.6	6879.5	6694.2	6376.6	6037.5	5602.7	5392.2	5609.0	5615.3	5665.7
40°	7519.8	7538.7	7411.4	7165.6	6874.5	6399.3	5994.7	6089.2	6051.4	6135.8
42.5°	8031.5	8069.4	7958.4	7834.9	7666.0	7247.5	6740.8	6724.5	6664.0	6709.3
45°	8474.0	8505.5	8405.9	8376.9	8373.1	8079.4	7556.4	7458.0	7373.6	7364.8
47.5°	8636.6	8697.1	8739.9	8837.0	9026.0	8902.5	8399.6	8247.1	8152.5	8083.2
50°	8698.3	8762.6	8908.8	9191.1	9638.6	9691.5	9239.0	9067.6	8951.7	8825.6
52.5°	8615.1	8729.8	8926.5	9401.6	10050.8	10324.3	10044.5	9894.5	9762.1	9556.7
55°	8124.8	8239.5	8641.6	9399.1	10256.2	10768.0	10805.8	10739.0	10590.2	10266.3
57.5°	7091.2	7261.4	7897.9	9079.0	10252.4	11149.9	11552.0	11599.9	11433.5	10969.6
60°	5659.4	5890.0	6666.5	8369.3	9936.1	11356.6	12206.1	12445.6	12269.1	11662.9
62.5°	3949.0	4216.2	4951.0	7257.6	9212.6	11207.9	12683.8	13126.2	12992.6	12283.0
65°	2408.7	2494.4	3086.8	5711.1	7982.4	10585.2	12831.3	13494.3	13450.2	12662.4
67.5°	1604.5	1676.4	1846.5	3916.2	6196.3	9341.1	12478.4	13430.0	13442.6	12600.6
70°	966.8	1028.5	1139.4	2277.6	4015.8	7393.8	11385.6	12610.7	12683.8	11775.1
72.5°	398.3	439.9	540.7	1032.3	2079.7	4692.6	9066.4	10827.2	10997.4	9900.8
75°	225.6	247.0	317.6	518.0	902.5	2186.9	5491.7	7686.2	7937.0	6824.0
77.5°	150.0	160.1	205.5	335.3	508.0	746.2	2346.9	4004.4	4483.4	3727.1
80°	100.8	109.7	141.2	224.4	330.2	320.2	747.4	1483.5	1825.1	1280.6
82.5°	68.1	69.3	100.8	147.5	209.2	155.0	220.6	461.3	579.8	370.6
85°	39.1	37.8	74.4	85.7	93.3	64.3	66.8	138.6	181.5	156.3
87.5°	5.0	7.6	29.0	22.7	12.6	13.9	13.9	23.9	35.3	37.8
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°
2186.9	0°	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9
2189.4	2.5°	2189.4	2188.1	2184.3	2180.6	2171.7	2166.7	2169.2	2166.7	2165.4	2166.7
2205.8	5°	2205.8	2202.0	2191.9	2179.3	2161.7	2140.2	2126.4	2106.2	2087.3	2075.9
2249.9	7.5°	2249.9	2246.1	2232.2	2197.0	2140.2	2050.7	1968.8	1897.0	1842.8	1811.3
2320.5	10°	2320.5	2314.2	2292.7	2214.6	2065.9	1870.5	1707.9	1573.0	1484.8	1443.2
2403.7	12.5°	2403.7	2396.1	2358.3	2198.2	1924.7	1619.7	1395.3	1245.3	1163.4	1126.8
2499.5	15°	2502.0	2491.9	2417.5	2120.1	1719.2	1342.4	1136.9	1024.7	971.8	939.0
2621.7	17.5°	2624.2	2606.6	2461.6	2002.8	1496.1	1130.6	978.1	893.7	847.0	815.5
2781.8	20°	2783.1	2754.1	2496.9	1862.9	1290.7	997.0	871.0	800.4	765.1	737.4
3008.7	22.5°	3004.9	2963.3	2539.8	1711.7	1145.7	905.0	791.6	739.9	710.9	679.4
3325.0	25°	3279.7	3230.5	2592.7	1571.8	1046.2	825.6	733.6	690.7	656.7	620.1
3739.7	27.5°	3664.1	3575.9	2655.8	1457.1	960.5	757.5	680.6	632.7	593.7	563.4
4209.9	30°	4092.7	3947.7	2711.2	1387.7	882.3	694.5	611.3	563.4	526.9	505.4
4632.1	32.5°	4498.5	4301.9	2747.8	1357.5	811.7	622.7	535.7	484.0	456.3	450.0
5045.6	35°	4881.7	4622.0	2744.0	1328.5	748.7	550.8	461.3	408.4	387.0	390.7
5490.5	37.5°	5322.8	4963.6	2717.5	1283.1	697.0	485.3	397.0	350.4	331.5	332.8
6031.2	40°	5835.8	5358.1	2701.1	1197.4	640.3	424.8	344.1	306.3	292.4	287.4
6600.9	42.5°	6382.9	5740.1	2703.6	1100.4	569.7	370.6	307.5	276.0	263.4	259.7
7234.9	45°	6932.4	6104.3	2707.4	999.5	495.4	329.0	281.1	254.6	247.0	242.0
7877.8	47.5°	7449.2	6414.4	2636.8	891.1	422.2	297.5	259.7	242.0	235.7	229.4
8523.1	50°	7930.7	6621.1	2466.7	765.1	364.3	272.3	243.3	230.7	224.4	218.1
9108.0	52.5°	8305.1	6653.9	2185.6	635.3	323.9	253.3	233.2	221.8	214.3	208.0
9580.6	55°	8471.4	6448.4	1786.0	514.3	292.4	237.0	223.1	211.8	202.9	196.6
9952.5	57.5°	8428.6	6016.1	1392.8	413.4	262.2	220.6	210.5	202.9	192.8	182.8
10253.7	60°	8218.1	5437.5	1049.9	344.1	234.4	202.9	196.6	190.3	176.5	161.3
10369.7	62.5°	7853.8	4710.3	748.7	284.9	204.2	182.8	180.2	175.2	155.0	127.3
10198.2	65°	7296.7	3826.7	504.2	237.0	175.2	160.1	161.3	152.5	126.0	94.5
9570.5	67.5°	6482.5	2798.2	322.7	194.1	146.2	133.6	134.9	129.8	107.1	80.7
8380.7	70°	5445.1	1852.9	210.5	147.5	117.2	103.4	110.9	112.2	90.8	65.5
6432.0	72.5°	3991.8	1094.1	147.5	109.7	85.7	71.8	90.8	93.3	73.1	49.2
3869.6	75°	2275.1	519.3	110.9	79.4	52.9	50.4	70.6	70.6	50.4	32.8
1675.1	77.5°	955.4	216.8	78.1	51.7	30.3	29.0	47.9	44.1	25.2	15.1
408.4	80°	276.0	97.1	41.6	25.2	12.6	11.3	18.9	13.9	6.3	2.5
155.0	82.5°	108.4	42.9	16.4	10.1	5.0	5.0	2.5	0.0	0.0	0.0
88.2	85°	64.3	17.6	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0
18.9	87.5°	16.4	3.8	2.5	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>
2186.9
2171.7
2078.5
1812.5
1439.4
1123.1
940.3
813.0
732.3
674.3
616.4
557.1
501.7
453.8
390.7
337.8
286.1
258.4
242.0
229.4
218.1
206.7
195.4
181.5
158.8
124.8
92.0
76.9
63.0
46.6
30.3
15.1
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