

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: P941386

Luminaire Tested: **GALN-SB4D-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941386
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-SB4D-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA 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: 19469 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

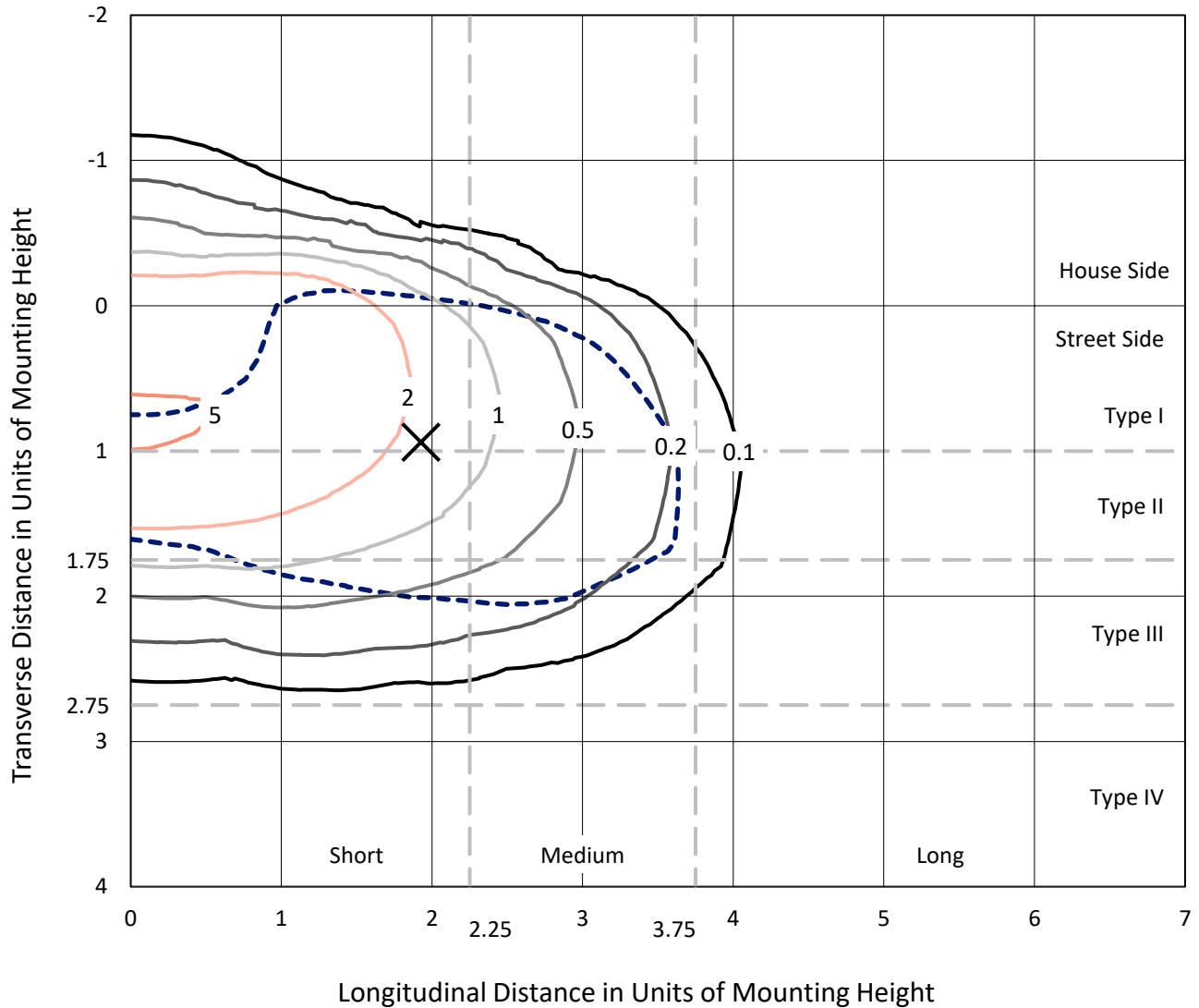
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

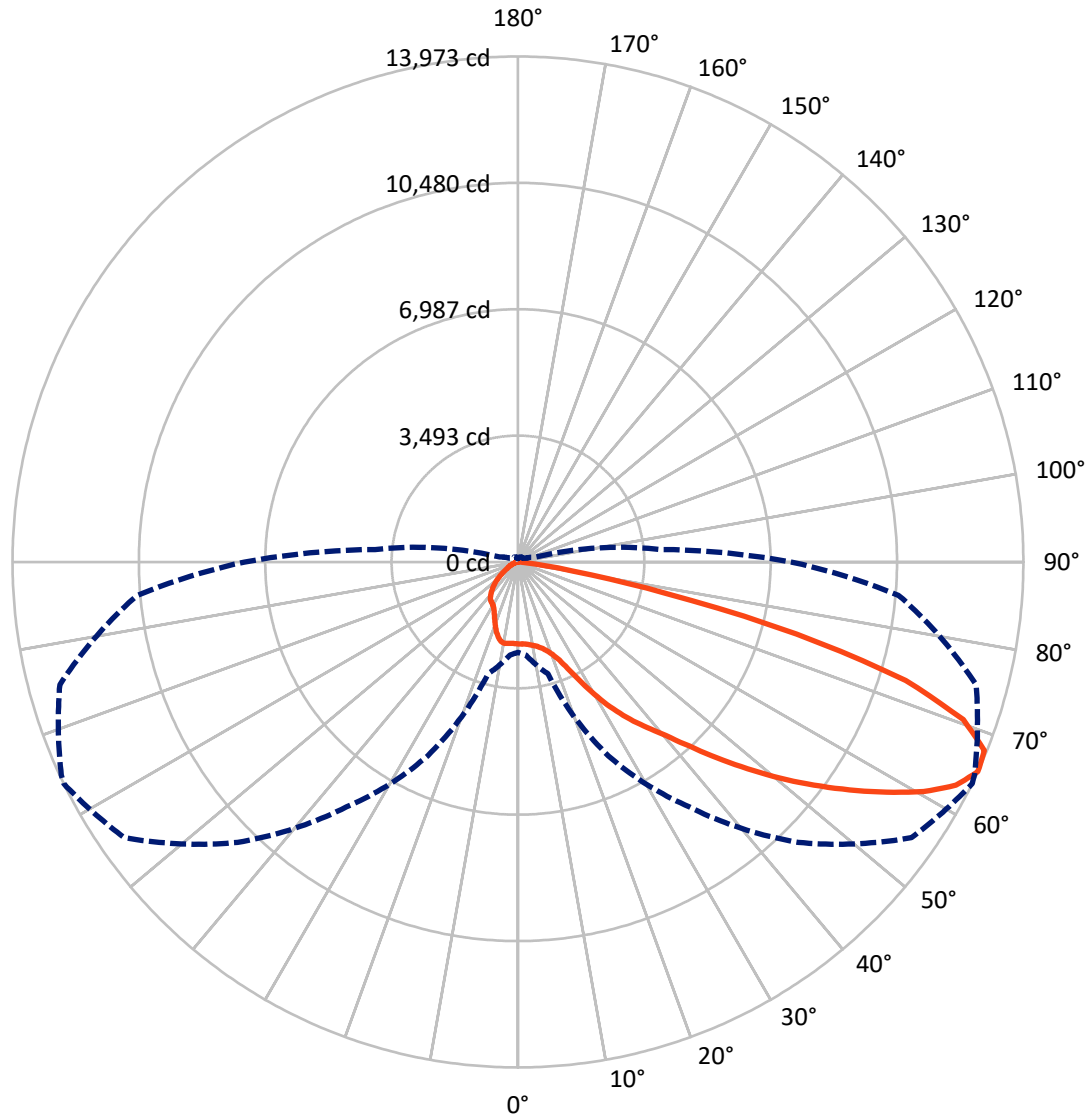
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2603.6	0.0	2603.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16865.4	0.0	16865.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	19469.0	0.0	19469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	1.1
10°-20°	566.6	2.9
20°-30°	1073.7	5.5
30°-40°	2172.8	11.2
40°-50°	3701.3	19.0
50°-60°	5033.5	25.9
60°-70°	4726.7	24.3
70°-80°	1893.7	9.7
80°-90°	91.7	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°	19469.0	100.0
0°-180°	19469.0	100.0

Coefficient of Utilization



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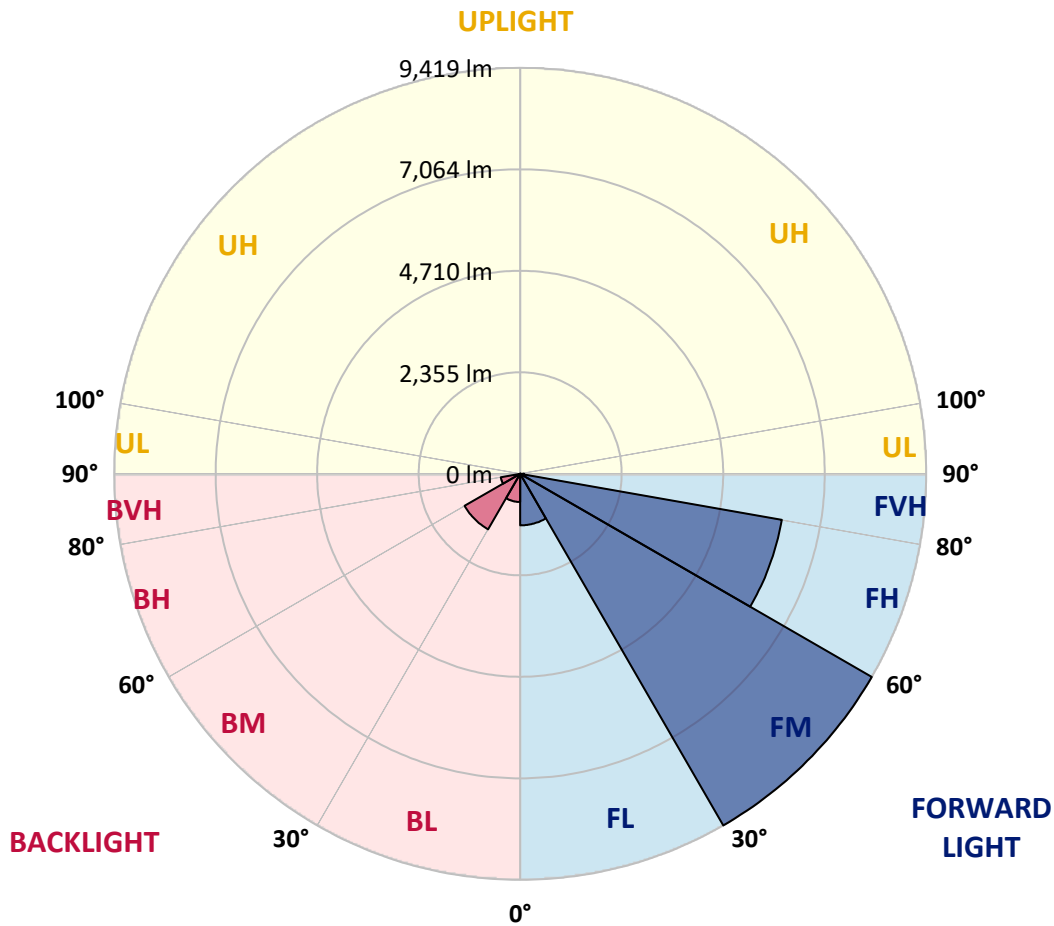
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.6	6.1			
FM (30°-60°)	9419.1	48.4			
FH (60°-80°)	6163.4	31.7			G3/7500
FVH (80°-90°)	87.3	0.4			G1/100
BL (0°-30°)	653.7	3.4	B2/1000		
BM (30°-60°)	1488.5	7.6	B2/2500		
BH (60°-80°)	457.0	2.3	B1/500		G1/500
BVH (80°-90°)	4.5	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°	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4
2.5°	2256.6	2272.3	2268.4	2264.4	2263.1	2265.8	2267.1	2265.8	2265.8	2265.8
5°	2213.5	2226.6	2226.6	2235.7	2248.8	2264.4	2276.2	2278.8	2281.4	2285.3
7.5°	2131.3	2141.8	2149.6	2179.6	2212.2	2254.0	2289.2	2307.5	2310.1	2324.5
10°	2075.2	2088.3	2101.3	2132.6	2179.6	2242.3	2302.3	2346.7	2353.2	2387.1
12.5°	2072.6	2085.6	2102.6	2136.5	2191.4	2257.9	2331.0	2395.0	2406.7	2456.3
15°	2100.0	2115.7	2131.3	2173.1	2231.8	2312.7	2391.0	2470.7	2482.4	2552.9
17.5°	2156.1	2177.0	2188.7	2230.5	2293.2	2383.2	2486.3	2577.7	2588.1	2670.4
20°	2267.1	2291.9	2295.8	2329.7	2391.0	2487.6	2610.3	2723.9	2736.9	2830.9
22.5°	2496.8	2532.0	2500.7	2517.6	2572.5	2669.0	2802.2	2945.7	2964.0	3071.0
25°	2901.4	2951.0	2870.0	2841.3	2864.8	2965.3	3132.4	3313.8	3334.7	3420.8
27.5°	3696.2	3632.3	3509.6	3389.5	3319.0	3376.4	3564.4	3788.9	3815.0	3898.5
30°	4569.4	4513.2	4347.5	4081.2	3914.2	3905.0	4078.6	4329.2	4359.2	4438.8
32.5°	5443.8	5390.3	5210.2	4882.6	4592.8	4449.3	4569.4	4847.4	4863.0	4913.9
35°	6303.9	6249.1	6069.0	5733.6	5377.2	5051.0	5027.5	5340.7	5345.9	5399.4
37.5°	7169.2	7123.5	6931.7	6602.8	6251.7	5801.4	5583.5	5807.9	5814.5	5866.7
40°	7786.6	7806.1	7674.3	7419.8	7118.3	6626.3	6207.3	6305.2	6266.1	6353.5
42.5°	8316.5	8355.6	8240.8	8112.9	7938.0	7504.7	6980.0	6963.0	6900.4	6947.3
45°	8774.6	8807.2	8704.1	8674.1	8670.2	8366.1	7824.4	7722.6	7635.2	7626.0
47.5°	8942.9	9005.6	9050.0	9150.5	9346.2	9218.3	8697.6	8539.6	8441.8	8370.0
50°	9006.9	9073.4	9224.8	9517.2	9980.5	10035.3	9566.8	9389.3	9269.2	9138.7
52.5°	8920.7	9039.5	9243.1	9735.2	10407.3	10690.5	10400.8	10245.5	10108.4	9895.7
55°	8413.0	8531.8	8948.2	9732.6	10620.1	11150.0	11189.1	11119.9	10965.9	10630.5
57.5°	7342.8	7519.0	8178.1	9401.0	10616.1	11545.4	11961.8	12011.4	11839.1	11358.8
60°	5860.2	6099.0	6903.0	8666.2	10288.6	11759.5	12639.1	12887.1	12704.4	12076.6
62.5°	4089.1	4365.7	5126.7	7515.1	9539.4	11605.5	13133.8	13591.9	13453.6	12718.8
65°	2494.2	2582.9	3196.3	5913.7	8265.6	10960.7	13286.5	13973.0	13927.3	13111.6
67.5°	1661.5	1735.9	1912.1	4055.1	6416.2	9672.5	12921.1	13906.4	13919.5	13047.7
70°	1001.1	1065.0	1179.9	2358.4	4158.2	7656.0	11789.5	13058.1	13133.8	12192.8
72.5°	412.4	455.5	559.9	1068.9	2153.5	4859.1	9388.0	11211.3	11387.5	10252.0
75°	233.6	255.8	328.9	536.4	934.5	2264.4	5686.6	7958.8	8218.6	7066.1
77.5°	155.3	165.8	212.7	347.2	526.0	772.7	2430.2	4146.5	4642.4	3859.3
80°	104.4	113.5	146.2	232.3	342.0	331.5	774.0	1536.2	1889.9	1326.0
82.5°	70.5	71.8	104.4	152.7	216.7	160.5	228.4	477.7	600.4	383.7
85°	40.5	39.2	77.0	88.8	96.6	66.6	69.2	143.6	187.9	161.8
87.5°	5.2	7.8	30.0	23.5	13.1	14.4	14.4	24.8	36.5	39.2
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°
2264.4	0°	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4
2267.1	2.5°	2267.1	2265.8	2261.8	2257.9	2248.8	2243.6	2246.2	2243.6	2242.3	2243.6
2284.0	5°	2284.0	2280.1	2269.7	2256.6	2238.3	2216.2	2201.8	2180.9	2161.3	2149.6
2329.7	7.5°	2329.7	2325.8	2311.4	2274.9	2216.2	2123.5	2038.7	1964.3	1908.1	1875.5
2402.8	10°	2402.8	2396.3	2374.1	2293.2	2139.2	1936.9	1768.5	1628.8	1537.5	1494.4
2488.9	12.5°	2488.9	2481.1	2441.9	2276.2	1993.0	1677.1	1444.8	1289.5	1204.7	1166.8
2588.1	15°	2590.7	2580.3	2503.3	2195.3	1780.2	1390.0	1177.3	1061.1	1006.3	972.3
2714.7	17.5°	2717.3	2699.1	2549.0	2073.9	1549.2	1170.7	1012.8	925.4	877.1	844.4
2880.5	20°	2881.8	2851.8	2585.5	1929.0	1336.5	1032.4	901.9	828.8	792.2	763.5
3115.4	22.5°	3111.5	3068.4	2629.9	1772.4	1186.4	937.1	819.6	766.1	736.1	703.5
3443.0	25°	3396.0	3345.1	2684.7	1627.5	1083.3	854.9	759.6	715.2	680.0	642.1
3872.4	27.5°	3794.1	3702.7	2750.0	1508.8	994.5	784.4	704.8	655.2	614.7	583.4
4359.2	30°	4237.8	4087.8	2807.4	1437.0	913.6	719.1	633.0	583.4	545.6	523.4
4796.5	32.5°	4658.1	4454.5	2845.2	1405.7	840.5	644.7	554.7	501.2	472.5	465.9
5224.5	35°	5054.9	4786.0	2841.3	1375.6	775.3	570.4	477.7	422.9	400.7	404.6
5685.3	37.5°	5511.7	5139.7	2813.9	1328.6	721.8	502.5	411.1	362.8	343.3	344.6
6245.2	40°	6042.9	5548.2	2797.0	1239.9	663.0	439.8	356.3	317.2	302.8	297.6
6835.1	42.5°	6609.3	5943.7	2799.6	1139.4	589.9	383.7	318.5	285.8	272.8	268.9
7491.6	45°	7178.4	6320.9	2803.5	1035.0	512.9	340.6	291.0	263.6	255.8	250.6
8157.2	47.5°	7713.5	6641.9	2730.4	922.7	437.2	308.0	268.9	250.6	244.1	237.5
8825.5	50°	8212.0	6856.0	2554.2	792.2	377.2	281.9	251.9	238.8	232.3	225.8
9431.1	52.5°	8599.7	6889.9	2263.1	657.8	335.4	262.3	241.5	229.7	221.9	215.4
9920.5	55°	8772.0	6677.2	1849.4	532.5	302.8	245.4	231.0	219.3	210.1	203.6
10305.5	57.5°	8727.6	6229.5	1442.2	428.1	271.5	228.4	218.0	210.1	199.7	189.2
10617.4	60°	8509.6	5630.4	1087.2	356.3	242.8	210.1	203.6	197.1	182.7	167.1
10737.5	62.5°	8132.4	4877.4	775.3	295.0	211.4	189.2	186.6	181.4	160.5	131.8
10560.0	65°	7555.6	3962.5	522.1	245.4	181.4	165.8	167.1	157.9	130.5	97.9
9910.1	67.5°	6712.4	2897.4	334.1	201.0	151.4	138.3	139.7	134.4	110.9	83.5
8678.0	70°	5638.3	1918.6	218.0	152.7	121.4	107.0	114.9	116.2	94.0	67.9
6660.2	72.5°	4133.4	1132.9	152.7	113.5	88.8	74.4	94.0	96.6	75.7	50.9
4006.8	75°	2355.8	537.7	114.9	82.2	54.8	52.2	73.1	73.1	52.2	33.9
1734.6	77.5°	989.3	224.5	80.9	53.5	31.3	30.0	49.6	45.7	26.1	15.7
422.9	80°	285.8	100.5	43.1	26.1	13.1	11.7	19.6	14.4	6.5	2.6
160.5	82.5°	112.2	44.4	17.0	10.4	5.2	5.2	2.6	0.0	0.0	0.0
91.4	85°	66.6	18.3	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0
19.6	87.5°	17.0	3.9	2.6	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>
2264.4
2248.8
2152.2
1876.8
1490.5
1162.9
973.6
841.8
758.3
698.3
638.2
576.9
519.5
469.9
404.6
349.8
296.3
267.6
250.6
237.5
225.8
214.0
202.3
187.9
164.4
129.2
95.3
79.6
65.3
48.3
31.3
15.7
2.6
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