

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: P940966

Luminaire Tested: **GALN-SB4B-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940966
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-SB4B-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 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: 18726 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

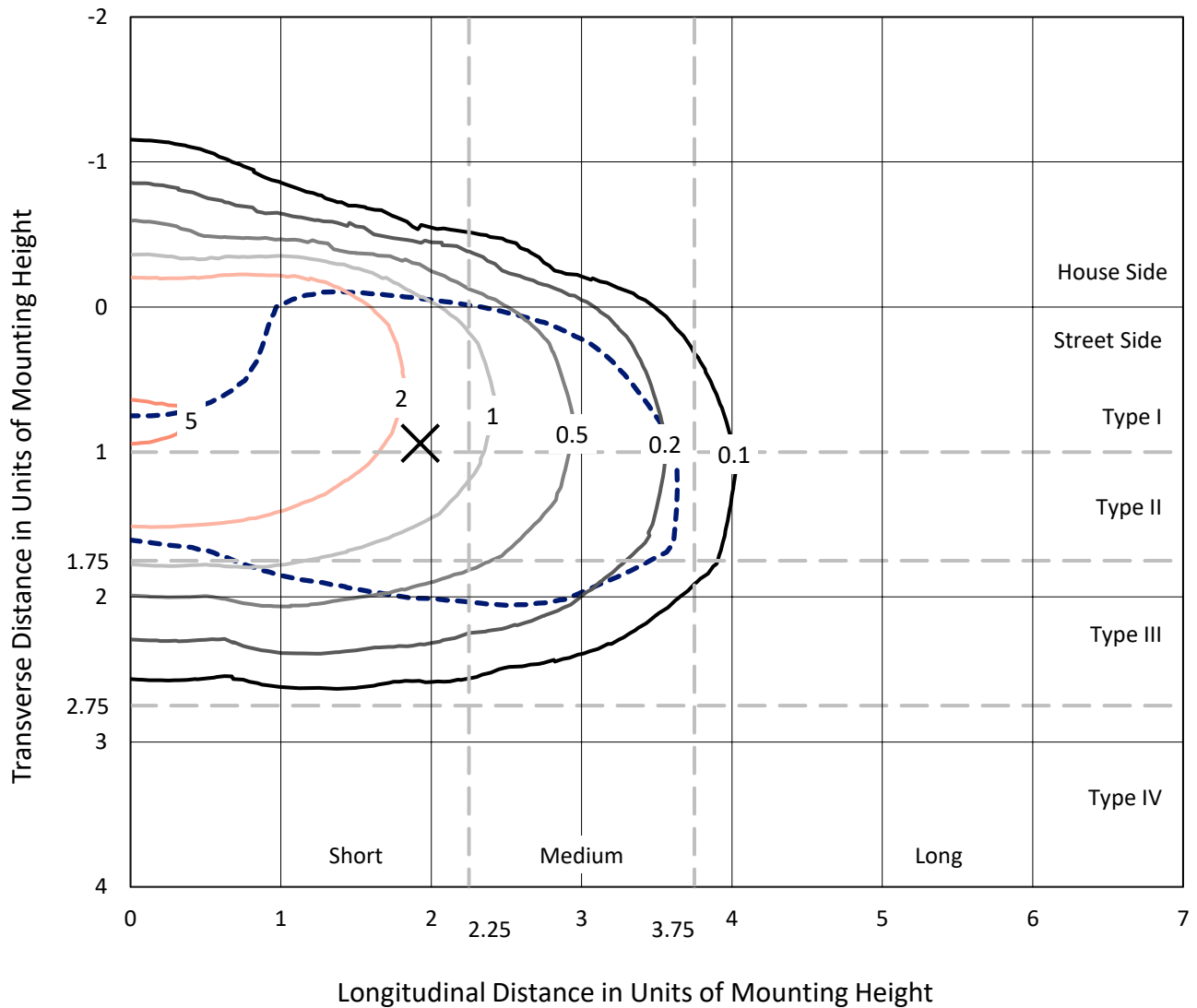
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

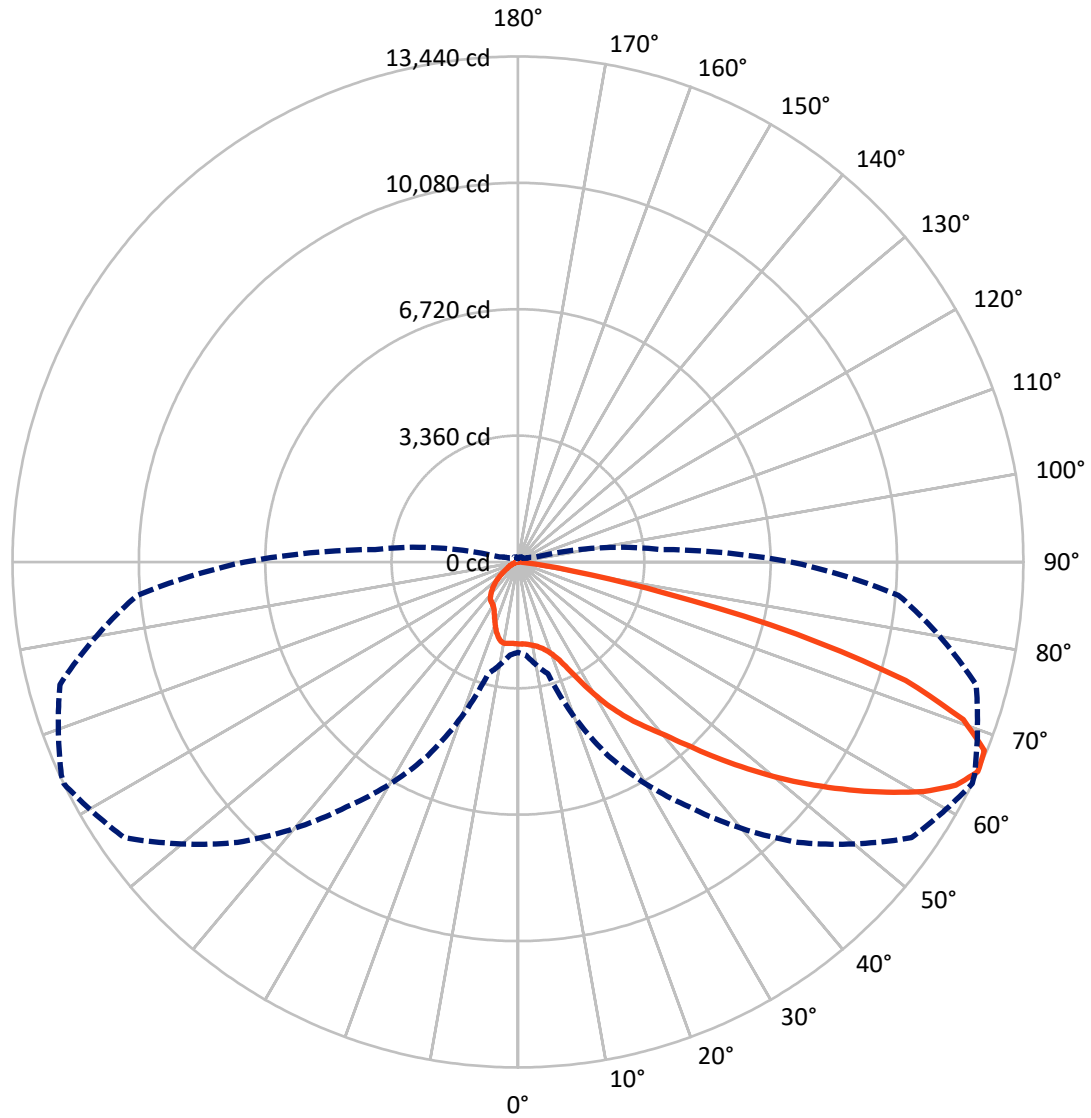
✕ Max cd
 - - - 1/2 Max cd



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	2504.2	0.0	2504.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16221.8	0.0	16221.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	18726.0	0.0	18726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.1
10°-20°	545.0	2.9
20°-30°	1032.8	5.5
30°-40°	2089.8	11.2
40°-50°	3560.0	19.0
50°-60°	4841.4	25.9
60°-70°	4546.3	24.3
70°-80°	1821.4	9.7
80°-90°	88.2	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°	18726.0	100.0
0°-180°	18726.0	100.0

Coefficient of Utilization



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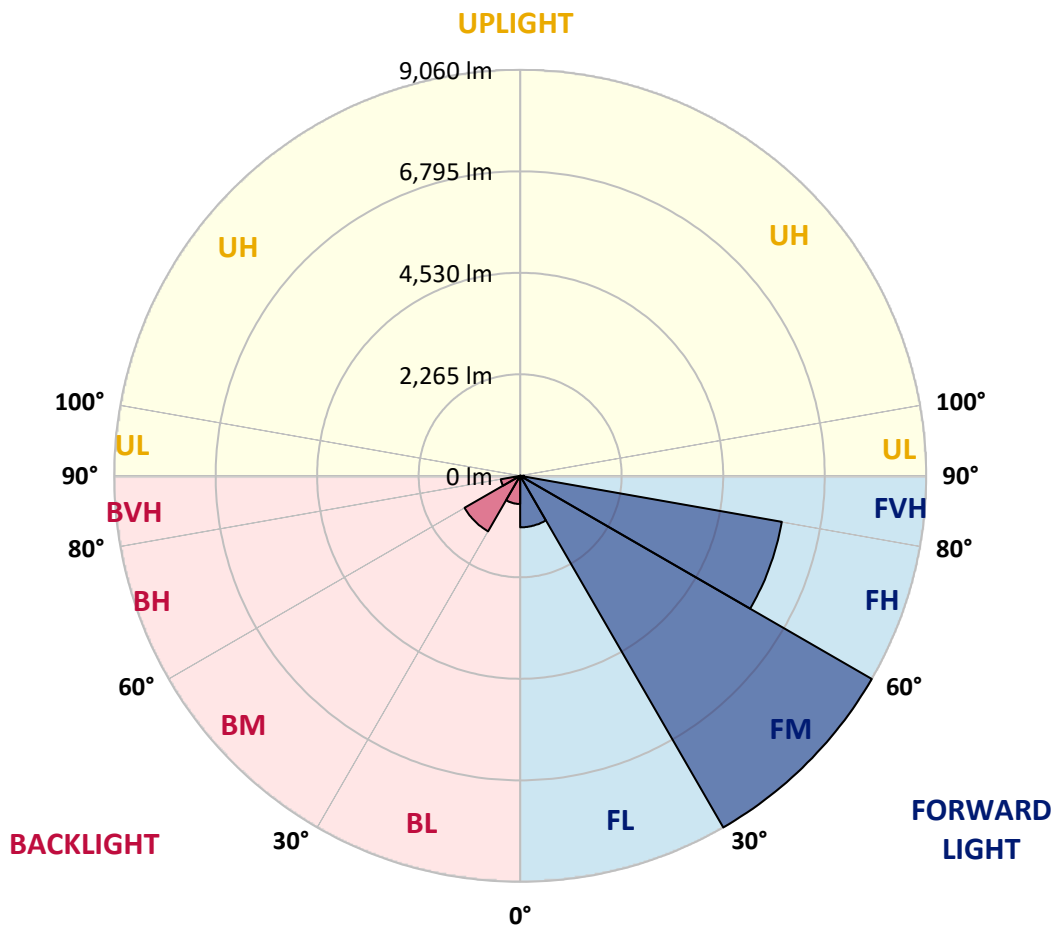
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.0	6.1			
FM (30°-60°)	9059.6	48.4			
FH (60°-80°)	5928.2	31.7			G3/7500
FVH (80°-90°)	83.9	0.4			G1/100
BL (0°-30°)	628.7	3.4	B2/1000		
BM (30°-60°)	1431.7	7.6	B2/2500		
BH (60°-80°)	439.5	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°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2170.5	2185.6	2181.8	2178.0	2176.8	2179.3	2180.5	2179.3	2179.3	2179.3
5°	2129.1	2141.6	2141.6	2150.4	2163.0	2178.0	2189.3	2191.8	2194.3	2198.1
7.5°	2050.0	2060.0	2067.6	2096.4	2127.8	2168.0	2201.9	2219.5	2222.0	2235.8
10°	1996.0	2008.6	2021.1	2051.2	2096.4	2156.7	2214.4	2257.1	2263.4	2296.0
12.5°	1993.5	2006.0	2022.4	2055.0	2107.7	2171.8	2242.1	2303.6	2314.9	2362.6
15°	2019.9	2034.9	2050.0	2090.2	2146.6	2224.5	2299.8	2376.4	2387.7	2455.5
17.5°	2073.8	2093.9	2105.2	2145.4	2205.6	2292.3	2391.4	2479.3	2489.4	2568.4
20°	2180.5	2204.4	2208.2	2240.8	2299.8	2392.7	2510.7	2619.9	2632.5	2722.8
22.5°	2401.5	2435.4	2405.2	2421.6	2474.3	2567.2	2695.2	2833.3	2850.9	2953.8
25°	2790.6	2838.3	2760.5	2732.9	2755.5	2852.1	3012.8	3187.3	3207.4	3290.3
27.5°	3555.1	3493.6	3375.6	3260.1	3192.3	3247.6	3428.4	3644.3	3669.4	3749.7
30°	4395.0	4341.0	4181.6	3925.5	3764.8	3756.0	3923.0	4164.0	4192.9	4269.4
32.5°	5236.1	5184.6	5011.3	4696.3	4417.6	4279.5	4395.0	4662.4	4677.4	4726.4
35°	6063.3	6010.6	5837.4	5514.7	5172.0	4858.2	4835.6	5136.9	5141.9	5193.4
37.5°	6895.6	6851.7	6667.2	6350.8	6013.1	5580.0	5370.4	5586.3	5592.6	5642.8
40°	7489.4	7508.2	7381.4	7136.7	6846.7	6373.4	5970.4	6064.6	6026.9	6111.0
42.5°	7999.1	8036.7	7926.3	7803.2	7635.0	7218.2	6713.6	6697.3	6637.0	6682.2
45°	8439.7	8471.1	8371.9	8343.0	8339.3	8046.8	7525.8	7427.9	7343.8	7335.0
47.5°	8601.6	8661.9	8704.6	8801.2	8989.5	8866.5	8365.6	8213.7	8119.6	8050.5
50°	8663.2	8727.2	8872.8	9154.0	9599.6	9652.4	9201.7	9031.0	8915.5	8789.9
52.5°	8580.3	8694.5	8890.4	9363.6	10010.1	10282.6	10003.9	9854.5	9722.7	9518.0
55°	8092.0	8206.2	8606.7	9361.1	10214.8	10724.4	10762.1	10695.6	10547.4	10224.8
57.5°	7062.6	7232.1	7866.0	9042.3	10211.0	11104.8	11505.3	11553.0	11387.3	10925.3
60°	5636.5	5866.2	6639.5	8335.5	9895.9	11310.7	12156.8	12395.3	12219.6	11615.7
62.5°	3933.0	4199.1	4931.0	7228.3	9175.3	11162.6	12632.6	13073.2	12940.1	12233.4
65°	2399.0	2484.3	3074.3	5688.0	7950.1	10542.4	12779.4	13439.8	13395.8	12611.2
67.5°	1598.1	1669.6	1839.1	3900.4	6171.3	9303.4	12427.9	13375.7	13388.3	12549.7
70°	962.9	1024.4	1134.8	2268.4	3999.5	7363.9	11339.6	12559.8	12632.6	11727.5
72.5°	396.7	438.1	538.5	1028.1	2071.3	4673.7	9029.7	10783.4	10952.9	9860.8
75°	224.7	246.0	316.3	515.9	898.8	2178.0	5469.5	7655.1	7904.9	6796.5
77.5°	149.4	159.4	204.6	333.9	505.9	743.2	2337.5	3988.2	4465.3	3712.1
80°	100.4	109.2	140.6	223.5	328.9	318.9	744.4	1477.5	1817.7	1275.4
82.5°	67.8	69.0	100.4	146.9	208.4	154.4	219.7	459.5	577.5	369.1
85°	38.9	37.7	74.1	85.4	92.9	64.0	66.5	138.1	180.8	155.7
87.5°	5.0	7.5	28.9	22.6	12.6	13.8	13.8	23.9	35.1	37.7
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°
2178.0	0°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2180.5	2.5°	2180.5	2179.3	2175.5	2171.8	2163.0	2157.9	2160.5	2157.9	2156.7	2157.9
2196.9	5°	2196.9	2193.1	2183.0	2170.5	2152.9	2131.6	2117.8	2097.7	2078.9	2067.6
2240.8	7.5°	2240.8	2237.0	2223.2	2188.1	2131.6	2042.5	1960.9	1889.3	1835.3	1803.9
2311.1	10°	2311.1	2304.8	2283.5	2205.6	2057.5	1862.9	1701.0	1566.7	1478.8	1437.4
2393.9	12.5°	2393.9	2386.4	2348.8	2189.3	1916.9	1613.1	1389.7	1240.3	1158.7	1122.3
2489.4	15°	2491.9	2481.8	2407.8	2111.5	1712.3	1336.9	1132.3	1020.6	967.9	935.2
2611.1	17.5°	2613.6	2596.1	2451.7	1994.7	1490.1	1126.0	974.1	890.0	843.6	812.2
2770.6	20°	2771.8	2742.9	2486.8	1855.4	1285.5	993.0	867.4	797.1	762.0	734.4
2996.5	22.5°	2992.7	2951.3	2529.5	1704.8	1141.1	901.3	788.4	736.9	708.0	676.6
3311.6	25°	3266.4	3217.5	2582.3	1565.4	1041.9	822.3	730.6	687.9	654.0	617.6
3724.6	27.5°	3649.3	3561.4	2645.0	1451.2	956.6	754.5	677.9	630.2	591.3	561.1
4192.9	30°	4076.1	3931.7	2700.3	1382.1	878.7	691.7	608.8	561.1	524.7	503.4
4613.4	32.5°	4480.3	4284.5	2736.7	1352.0	808.4	620.1	533.5	482.1	454.4	448.2
5025.2	35°	4862.0	4603.4	2732.9	1323.1	745.7	548.6	459.5	406.7	385.4	389.2
5468.3	37.5°	5301.3	4943.6	2706.5	1277.9	694.2	483.3	395.4	349.0	330.2	331.4
6006.8	40°	5812.3	5336.5	2690.2	1192.6	637.7	423.1	342.7	305.0	291.2	286.2
6574.3	42.5°	6357.1	5716.9	2692.7	1095.9	567.4	369.1	306.3	274.9	262.4	258.6
7205.7	45°	6904.4	6079.6	2696.5	995.5	493.4	327.6	279.9	253.6	246.0	241.0
7845.9	47.5°	7419.1	6388.5	2626.2	887.5	420.5	296.3	258.6	241.0	234.8	228.5
8488.7	50°	7898.6	6594.3	2456.7	762.0	362.8	271.2	242.3	229.7	223.5	217.2
9071.1	52.5°	8271.5	6627.0	2176.8	632.7	322.6	252.3	232.2	220.9	213.4	207.1
9541.9	55°	8437.2	6422.4	1778.8	512.2	291.2	236.0	222.2	210.9	202.1	195.8
9912.2	57.5°	8394.5	5991.8	1387.2	411.8	261.1	219.7	209.6	202.1	192.1	182.0
10212.3	60°	8184.9	5415.6	1045.7	342.7	233.5	202.1	195.8	189.6	175.7	160.7
10327.7	62.5°	7822.1	4691.2	745.7	283.7	203.4	182.0	179.5	174.5	154.4	126.8
10157.0	65°	7267.2	3811.2	502.1	236.0	174.5	159.4	160.7	151.9	125.5	94.2
9531.9	67.5°	6456.3	2786.9	321.4	193.3	145.6	133.1	134.3	129.3	106.7	80.3
8346.8	70°	5423.1	1845.4	209.6	146.9	116.7	102.9	110.5	111.7	90.4	65.3
6406.0	72.5°	3975.7	1089.6	146.9	109.2	85.4	71.6	90.4	92.9	72.8	49.0
3853.9	75°	2265.9	517.2	110.5	79.1	52.7	50.2	70.3	70.3	50.2	32.6
1668.4	77.5°	951.6	215.9	77.8	51.5	30.1	28.9	47.7	43.9	25.1	15.1
406.7	80°	274.9	96.7	41.4	25.1	12.6	11.3	18.8	13.8	6.3	2.5
154.4	82.5°	108.0	42.7	16.3	10.0	5.0	5.0	2.5	0.0	0.0	0.0
87.9	85°	64.0	17.6	7.5	3.8	1.3	0.0	0.0	0.0	0.0	0.0
18.8	87.5°	16.3	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>
2178.0
2163.0
2070.1
1805.2
1433.6
1118.5
936.5
809.7
729.4
671.6
613.9
554.9
499.6
451.9
389.2
336.4
285.0
257.3
241.0
228.5
217.2
205.9
194.6
180.8
158.2
124.3
91.6
76.6
62.8
46.4
30.1
15.1
2.5
0.0
0.0
0.0
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