

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: P942876

Luminaire Tested: **GALN-SB7A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942876
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-SB7A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 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: 22481 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

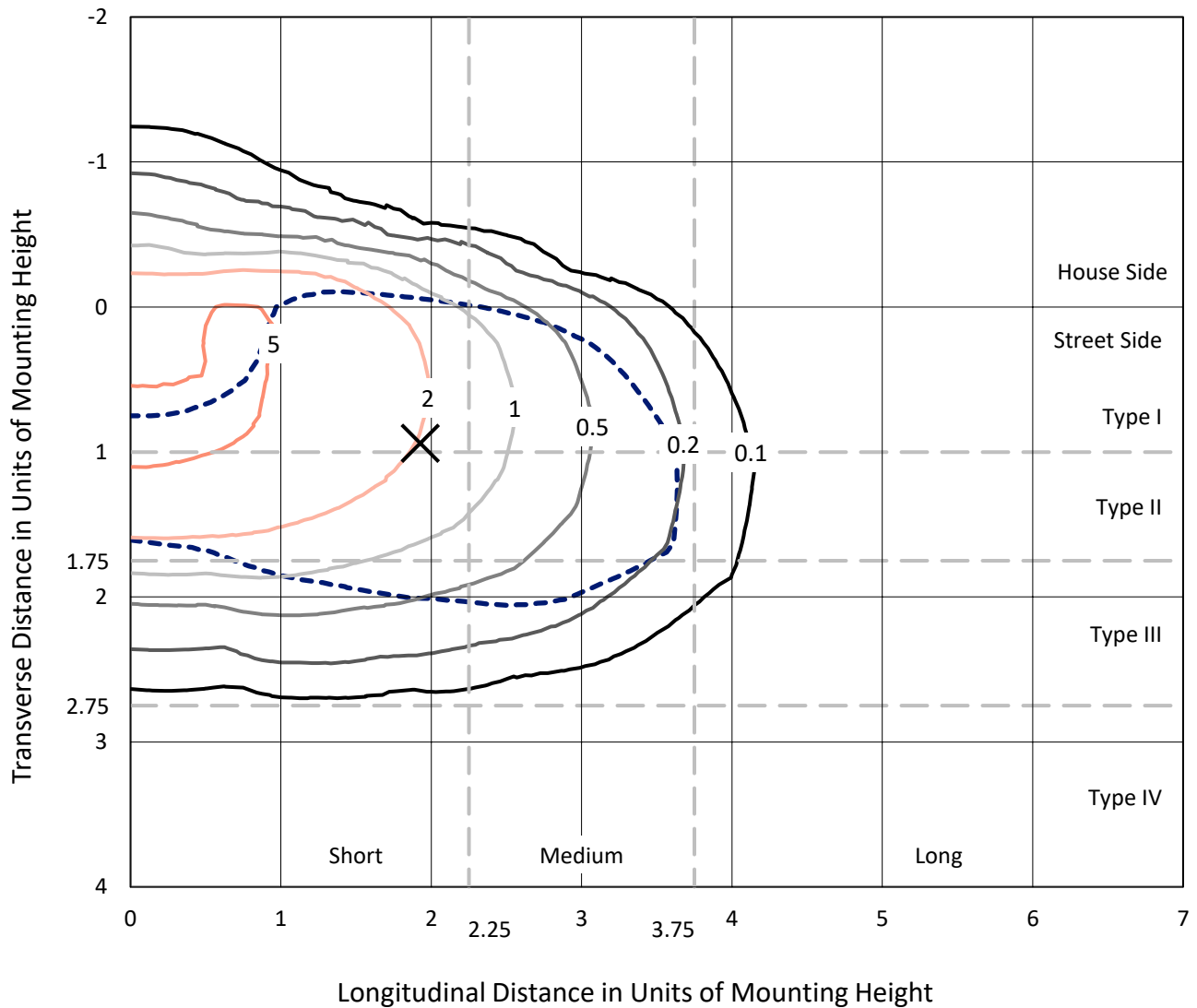
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

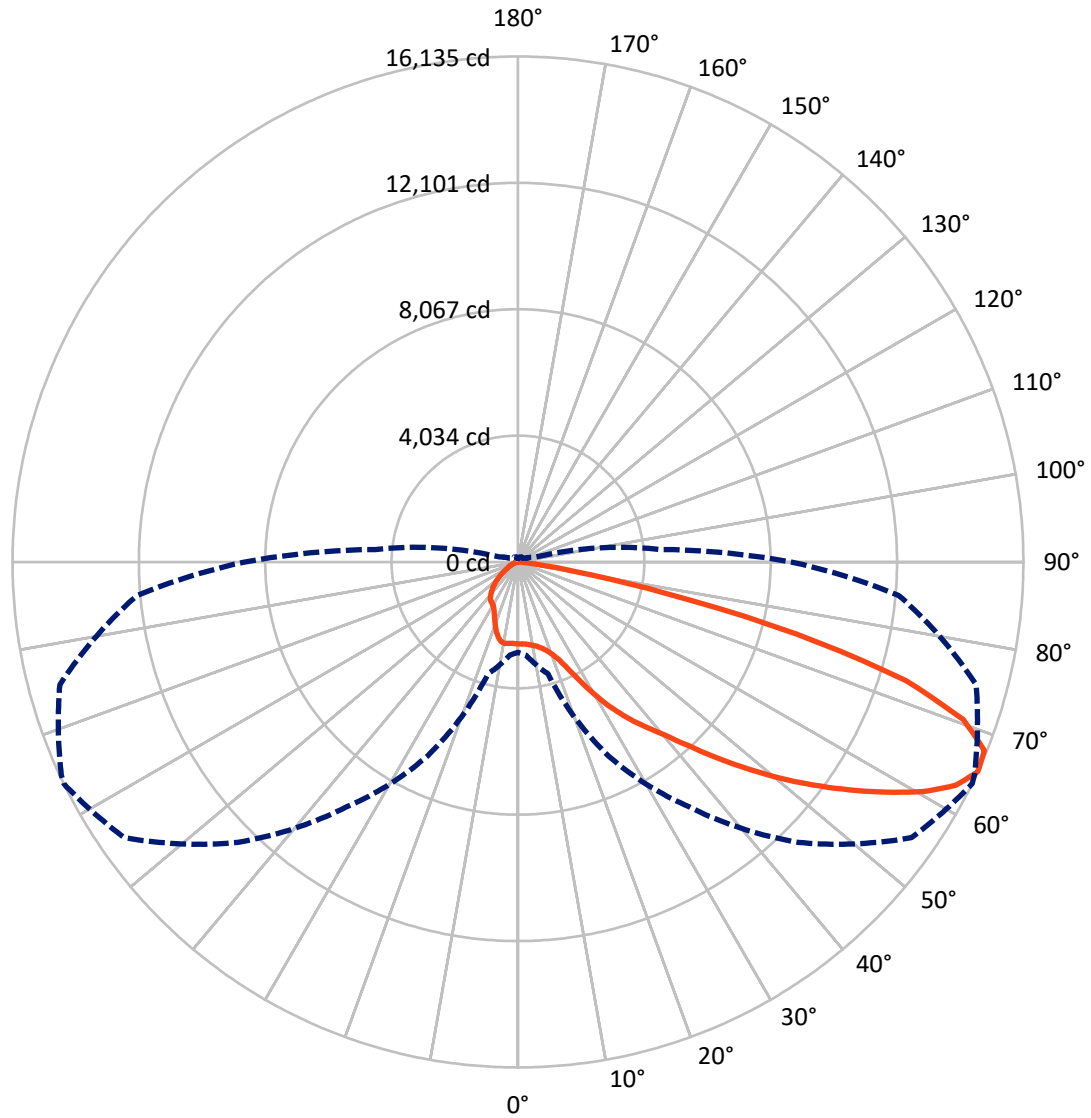
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3006.4	0.0	3006.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19474.6	0.0	19474.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	22481.0	0.0	22481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	1.1
10°-20°	654.3	2.9
20°-30°	1239.9	5.5
30°-40°	2508.9	11.2
40°-50°	4273.9	19.0
50°-60°	5812.2	25.9
60°-70°	5457.9	24.3
70°-80°	2186.7	9.7
80°-90°	105.9	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°	22481.0	100.0
0°-180°	22481.0	100.0

Coefficient of Utilization



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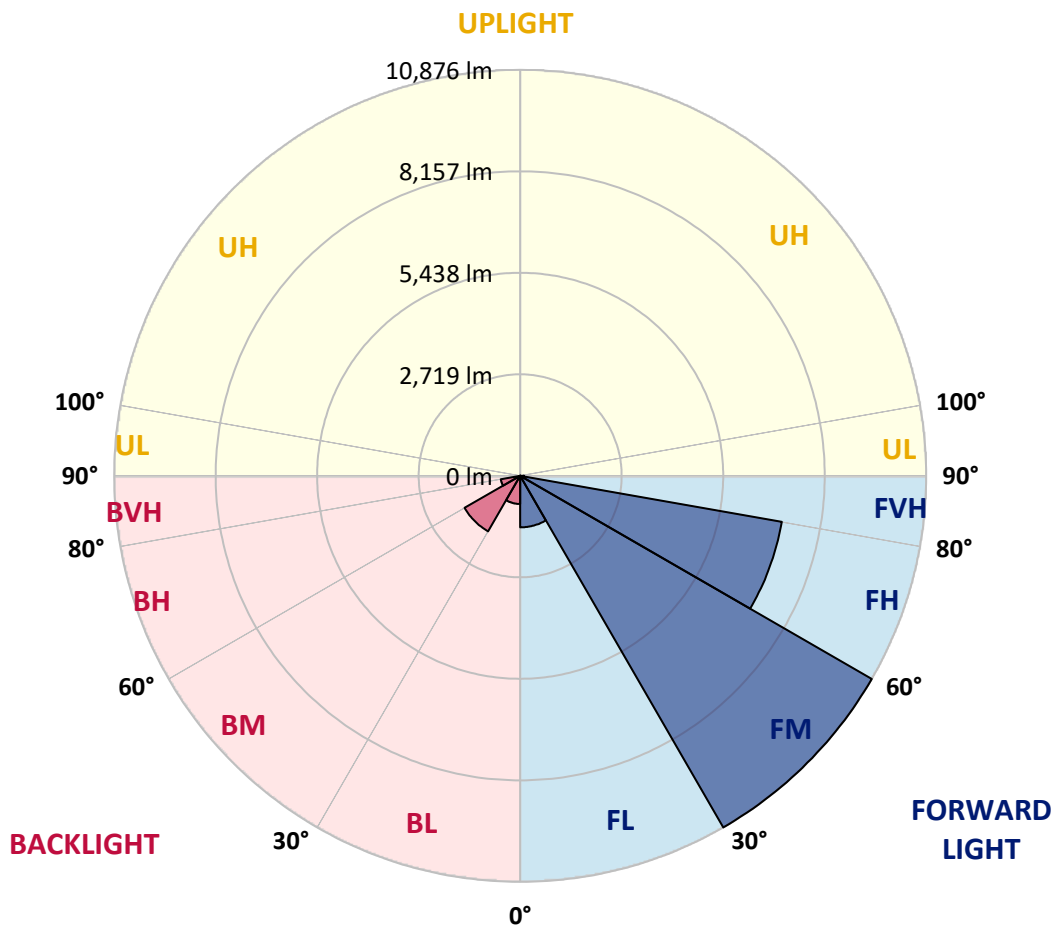
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1380.6	6.1			
FM (30°-60°)	10876.3	48.4			
FH (60°-80°)	7117.0	31.7			G3/7500
FVH (80°-90°)	100.8	0.4			G2/225
BL (0°-30°)	754.8	3.4	B2/1000		
BM (30°-60°)	1718.7	7.6	B2/2500		
BH (60°-80°)	527.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.2	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°	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8
2.5°	2605.7	2623.8	2619.3	2614.8	2613.3	2616.3	2617.8	2616.3	2616.3	2616.3
5°	2556.0	2571.1	2571.1	2581.6	2596.7	2614.8	2628.3	2631.4	2634.4	2638.9
7.5°	2461.1	2473.1	2482.2	2516.8	2554.5	2602.7	2643.4	2664.5	2667.5	2684.1
10°	2396.2	2411.3	2426.4	2462.6	2516.8	2589.2	2658.5	2709.7	2717.3	2756.4
12.5°	2393.2	2408.3	2427.9	2467.1	2530.4	2607.2	2691.6	2765.5	2779.0	2836.3
15°	2424.9	2443.0	2461.1	2509.3	2577.1	2670.5	2761.0	2852.9	2866.5	2947.8
17.5°	2489.7	2513.8	2527.4	2575.6	2647.9	2751.9	2871.0	2976.5	2988.5	3083.5
20°	2617.8	2646.4	2650.9	2690.1	2761.0	2872.5	3014.1	3145.3	3160.3	3268.8
22.5°	2883.0	2923.7	2887.6	2907.1	2970.4	3082.0	3235.7	3401.5	3422.6	3546.1
25°	3350.2	3407.5	3314.1	3280.9	3308.0	3424.1	3617.0	3826.5	3850.6	3950.0
27.5°	4268.0	4194.2	4052.5	3913.9	3832.5	3898.8	4115.8	4375.0	4405.2	4501.6
30°	5276.3	5211.5	5020.1	4712.6	4519.7	4509.2	4709.6	4999.0	5033.6	5125.6
32.5°	6286.0	6224.2	6016.2	5638.0	5303.4	5137.6	5276.3	5597.3	5615.4	5674.1
35°	7279.2	7215.9	7007.9	6620.6	6209.1	5832.4	5805.2	6166.9	6173.0	6234.8
37.5°	8278.4	8225.6	8004.1	7624.3	7218.9	6698.9	6447.3	6706.5	6714.0	6774.3
40°	8991.2	9013.8	8861.6	8567.7	8219.6	7651.4	7167.6	7280.7	7235.5	7336.4
42.5°	9603.1	9648.3	9515.7	9368.0	9166.0	8665.7	8059.8	8040.2	7967.9	8022.2
45°	10132.1	10169.7	10050.7	10016.0	10011.5	9660.3	9034.9	8917.4	8816.4	8805.8
47.5°	10326.5	10398.8	10450.1	10566.1	10792.2	10644.5	10043.1	9860.8	9747.8	9664.9
50°	10400.3	10477.2	10652.0	10989.6	11524.6	11587.9	11046.9	10841.9	10703.2	10552.5
52.5°	10300.9	10438.0	10673.1	11241.3	12017.4	12344.4	12009.9	11830.5	11672.3	11426.6
55°	9714.6	9851.7	10332.5	11238.3	12263.1	12874.9	12920.1	12840.3	12662.4	12275.1
57.5°	8478.8	8682.3	9443.3	10855.5	12258.5	13331.6	13812.3	13869.6	13670.7	13116.1
60°	6766.8	7042.6	7970.9	10007.0	11880.3	13578.7	14594.5	14880.9	14669.9	13945.0
62.5°	4721.7	5041.2	5919.8	8677.7	11015.2	13400.9	15165.7	15694.7	15534.9	14686.4
65°	2880.0	2982.5	3690.8	6828.6	9544.3	12656.4	15342.0	16134.7	16082.0	15140.1
67.5°	1918.5	2004.4	2207.9	4682.5	7408.8	11168.9	14920.0	16057.9	16072.9	15066.2
70°	1155.9	1229.8	1362.4	2723.3	4801.5	8840.5	13613.4	15078.3	15165.7	14079.1
72.5°	476.2	526.0	646.5	1234.3	2486.7	5610.8	10840.4	12945.8	13149.2	11838.1
75°	269.8	295.4	379.8	619.4	1079.1	2614.8	6566.3	9190.1	9490.0	8159.3
77.5°	179.3	191.4	245.7	400.9	607.4	892.2	2806.2	4788.0	5360.7	4456.4
80°	120.6	131.1	168.8	268.3	394.9	382.8	893.7	1773.8	2182.2	1531.2
82.5°	81.4	82.9	120.6	176.3	250.2	185.4	263.7	551.6	693.3	443.1
85°	46.7	45.2	88.9	102.5	111.5	76.9	79.9	165.8	217.0	186.9
87.5°	6.0	9.0	34.7	27.1	15.1	16.6	16.6	28.6	42.2	45.2
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°
2614.8	0°	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8	2614.8
2617.8	2.5°	2617.8	2616.3	2611.8	2607.2	2596.7	2590.7	2593.7	2590.7	2589.2	2590.7
2637.4	5°	2637.4	2632.9	2620.8	2605.7	2584.6	2559.0	2542.4	2518.3	2495.7	2482.2
2690.1	7.5°	2690.1	2685.6	2669.0	2626.8	2559.0	2452.0	2354.0	2268.1	2203.3	2165.7
2774.5	10°	2774.5	2767.0	2741.4	2647.9	2470.1	2236.5	2042.1	1880.8	1775.3	1725.6
2874.0	12.5°	2874.0	2864.9	2819.7	2628.3	2301.3	1936.6	1668.3	1489.0	1391.0	1347.3
2988.5	15°	2991.5	2979.5	2890.6	2534.9	2055.6	1605.0	1359.4	1225.3	1162.0	1122.8
3134.7	17.5°	3137.7	3116.6	2943.3	2394.7	1788.9	1351.8	1169.5	1068.5	1012.8	975.1
3326.1	20°	3327.6	3293.0	2985.5	2227.5	1543.2	1192.1	1041.4	957.0	914.8	881.6
3597.4	22.5°	3592.9	3543.1	3036.8	2046.6	1369.9	1082.1	946.4	884.7	850.0	812.3
3975.7	25°	3921.4	3862.6	3100.1	1879.3	1250.9	987.1	877.1	825.9	785.2	741.5
4471.5	27.5°	4381.1	4275.6	3175.4	1742.2	1148.4	905.8	813.8	756.6	709.8	673.7
5033.6	30°	4893.5	4720.2	3241.7	1659.3	1055.0	830.4	730.9	673.7	630.0	604.3
5538.5	32.5°	5378.7	5143.6	3285.4	1623.1	970.6	744.5	640.5	578.7	545.6	538.0
6032.8	35°	5836.9	5526.4	3280.9	1588.5	895.2	658.6	551.6	488.3	462.7	467.2
6564.8	37.5°	6364.4	5934.9	3249.3	1534.2	833.4	580.2	474.7	419.0	396.4	397.9
7211.4	40°	6977.8	6406.6	3229.7	1431.7	765.6	507.9	411.4	366.2	349.6	343.6
7892.5	42.5°	7631.8	6863.2	3232.7	1315.7	681.2	443.1	367.7	330.0	315.0	310.5
8650.6	45°	8288.9	7298.8	3237.2	1195.1	592.3	393.3	336.1	304.4	295.4	289.4
9419.2	47.5°	8906.8	7669.5	3152.8	1065.5	504.9	355.7	310.5	289.4	281.8	274.3
10190.8	50°	9482.5	7916.7	2949.3	914.8	435.5	325.5	290.9	275.8	268.3	260.7
10890.1	52.5°	9930.1	7955.8	2613.3	759.6	387.3	302.9	278.8	265.2	256.2	248.7
11455.3	55°	10129.0	7710.2	2135.5	614.9	349.6	283.3	266.8	253.2	242.6	235.1
11899.9	57.5°	10077.8	7193.3	1665.3	494.3	313.5	263.7	251.7	242.6	230.6	218.5
12260.0	60°	9826.1	6501.5	1255.4	411.4	280.3	242.6	235.1	227.6	211.0	192.9
12398.7	62.5°	9390.6	5631.9	895.2	340.6	244.1	218.5	215.5	209.5	185.4	152.2
12193.7	65°	8724.5	4575.5	602.8	283.3	209.5	191.4	192.9	182.4	150.7	113.0
11443.2	67.5°	7750.9	3345.7	385.8	232.1	174.8	159.7	161.3	155.2	128.1	96.5
10020.5	70°	6510.6	2215.4	251.7	176.3	140.2	123.6	132.6	134.1	108.5	78.4
7690.6	72.5°	4772.9	1308.1	176.3	131.1	102.5	85.9	108.5	111.5	87.4	58.8
4626.7	75°	2720.3	620.9	132.6	94.9	63.3	60.3	84.4	84.4	60.3	39.2
2002.9	77.5°	1142.4	259.2	93.4	61.8	36.2	34.7	57.3	52.7	30.1	18.1
488.3	80°	330.0	116.0	49.7	30.1	15.1	13.6	22.6	16.6	7.5	3.0
185.4	82.5°	129.6	51.2	19.6	12.1	6.0	6.0	3.0	0.0	0.0	0.0
105.5	85°	76.9	21.1	9.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
22.6	87.5°	19.6	4.5	3.0	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>
2614.8
2596.7
2485.2
2167.2
1721.1
1342.8
1124.3
972.1
875.6
806.3
737.0
666.1
599.8
542.5
467.2
403.9
342.1
309.0
289.4
274.3
260.7
247.2
233.6
217.0
189.9
149.2
110.0
91.9
75.4
55.8
36.2
18.1
3.0
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