

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: P942866

Luminaire Tested: **GALN-SB7A-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942866
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-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 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: 21756 lumens
Efficiency: N/A
Efficacy: 109.3 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

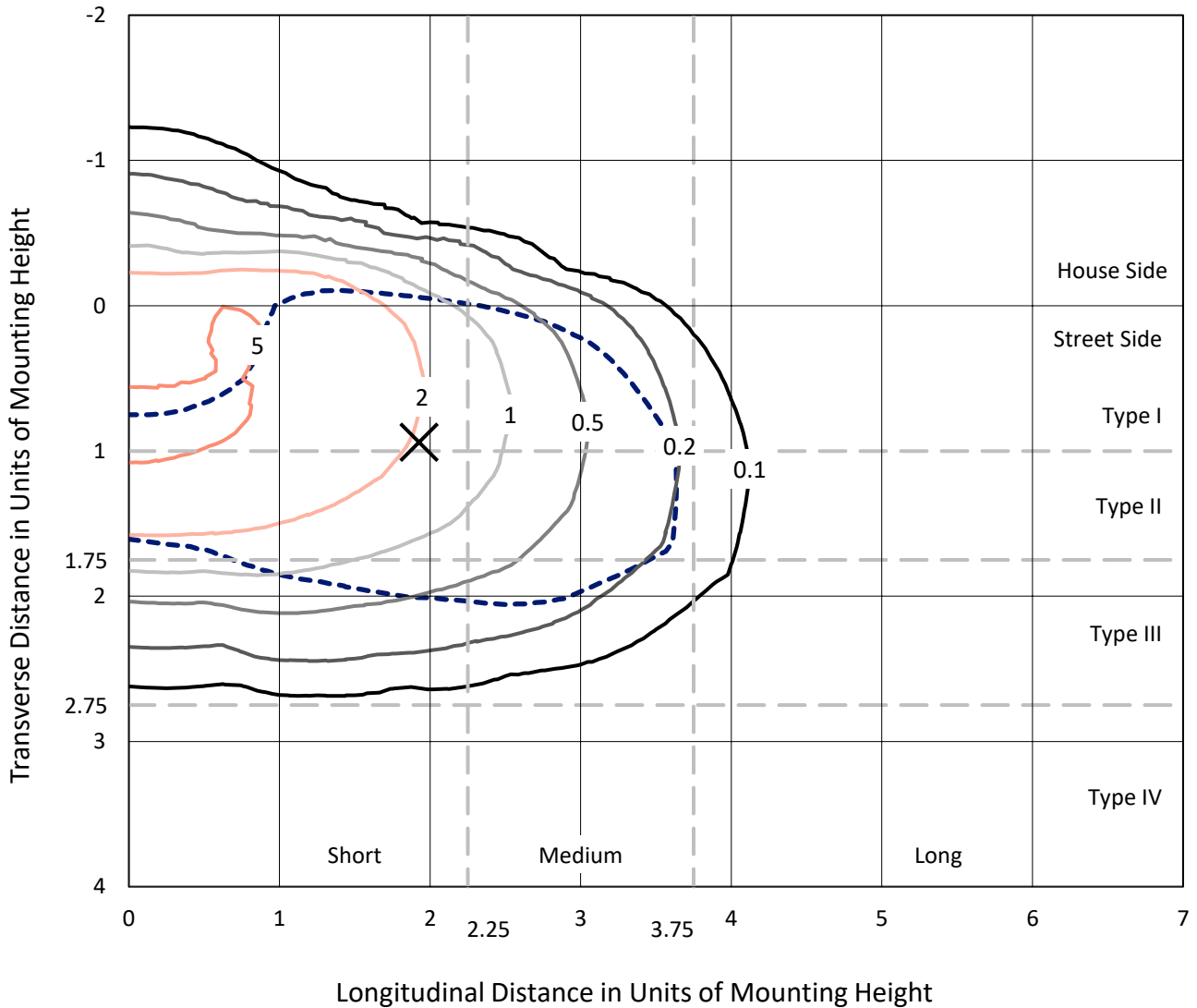
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

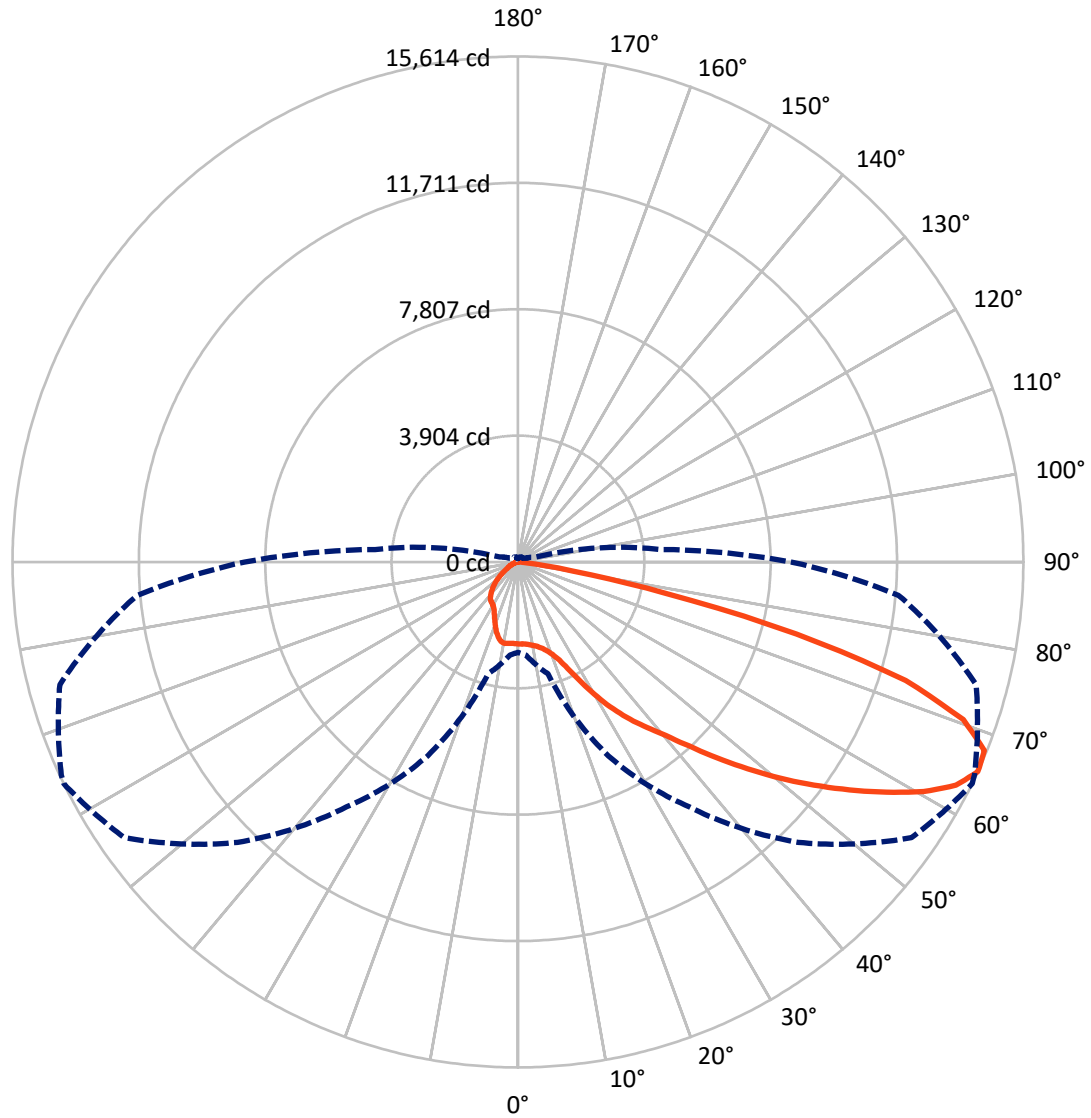
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2909.4	0.0	2909.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18846.6	0.0	18846.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	21756.0	0.0	21756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	1.1
10°-20°	633.2	2.9
20°-30°	1199.9	5.5
30°-40°	2428.0	11.2
40°-50°	4136.1	19.0
50°-60°	5624.8	25.9
60°-70°	5281.9	24.3
70°-80°	2116.2	9.7
80°-90°	102.5	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°	21756.0	100.0
0°-180°	21756.0	100.0

Coefficient of Utilization



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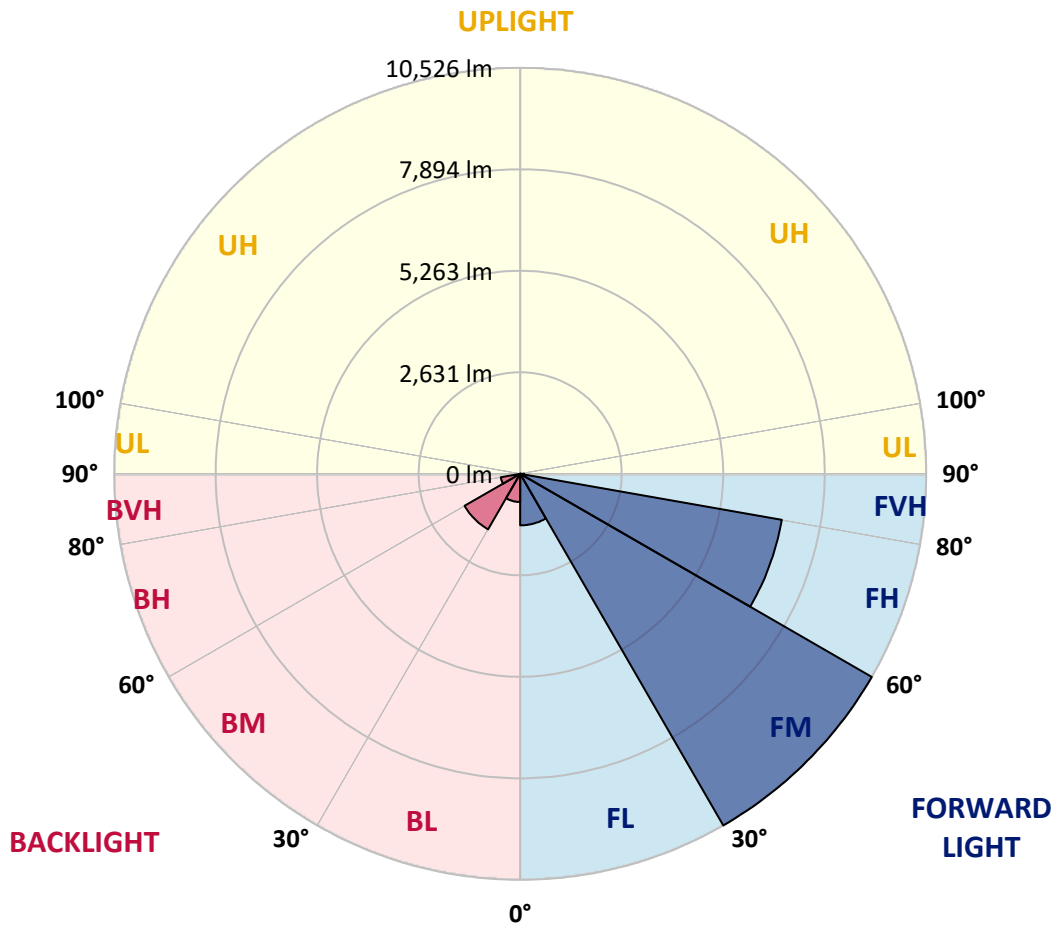
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.1	6.1			
FM (30°-60°)	10525.5	48.4			
FH (60°-80°)	6887.5	31.7			G3/7500
FVH (80°-90°)	97.5	0.4			G1/100
BL (0°-30°)	730.5	3.4	B2/1000		
BM (30°-60°)	1663.3	7.6	B2/2500		
BH (60°-80°)	510.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4
2.5°	2521.7	2539.2	2534.8	2530.4	2529.0	2531.9	2533.4	2531.9	2531.9	2531.9
5°	2473.6	2488.2	2488.2	2498.4	2512.9	2530.4	2543.6	2546.5	2549.4	2553.8
7.5°	2381.7	2393.4	2402.1	2435.6	2472.1	2518.8	2558.2	2578.6	2581.5	2597.5
10°	2319.0	2333.6	2348.1	2383.1	2435.6	2505.7	2572.7	2622.3	2629.6	2667.5
12.5°	2316.1	2330.6	2349.6	2387.5	2448.8	2523.2	2604.8	2676.3	2689.4	2744.8
15°	2346.7	2364.2	2381.7	2428.4	2494.0	2584.4	2671.9	2760.9	2774.0	2852.8
17.5°	2409.4	2432.7	2445.9	2492.5	2562.5	2663.2	2778.4	2880.5	2892.1	2984.0
20°	2533.4	2561.1	2565.5	2603.4	2671.9	2779.8	2916.9	3043.8	3058.4	3163.4
22.5°	2790.1	2829.4	2794.4	2813.4	2874.6	2982.6	3131.3	3291.8	3312.2	3431.8
25°	3242.2	3297.6	3207.2	3175.1	3201.3	3313.6	3500.3	3703.1	3726.4	3822.7
27.5°	4130.4	4058.9	3921.8	3787.7	3708.9	3773.1	3983.1	4233.9	4263.1	4356.5
30°	5106.1	5043.4	4858.2	4560.6	4374.0	4363.7	4557.7	4837.8	4871.3	4960.3
32.5°	6083.3	6023.5	5822.2	5456.1	5132.4	4971.9	5106.1	5416.8	5434.3	5491.1
35°	7044.4	6983.2	6781.9	6407.1	6008.9	5644.3	5618.0	5968.1	5973.9	6033.7
37.5°	8011.4	7960.3	7745.9	7378.4	6986.1	6482.9	6239.3	6490.2	6497.5	6555.8
40°	8701.2	8723.1	8575.8	8291.4	7954.5	7404.7	6936.5	7045.9	7002.1	7099.8
42.5°	9293.4	9337.1	9208.8	9065.9	8870.4	8386.2	7799.9	7780.9	7710.9	7763.4
45°	9805.3	9841.8	9726.5	9693.0	9688.6	9348.8	8743.5	8629.8	8532.1	8521.9
47.5°	9993.4	10063.5	10113.0	10225.3	10444.1	10301.2	9719.3	9542.8	9433.4	9353.2
50°	10064.9	10139.3	10308.5	10635.2	11152.9	11214.2	10690.6	10492.2	10358.1	10212.2
52.5°	9968.7	10101.4	10328.9	10878.7	11629.9	11946.3	11622.6	11449.0	11295.9	11058.1
55°	9401.3	9534.0	9999.3	10875.8	11867.6	12459.7	12503.5	12426.2	12254.1	11879.3
57.5°	8205.4	8402.3	9138.8	10505.4	11863.2	12901.6	13366.9	13422.3	13229.8	12693.1
60°	6548.5	6815.4	7713.9	9684.3	11497.1	13140.8	14123.8	14401.0	14196.8	13495.2
62.5°	4569.4	4878.6	5728.9	8397.9	10660.0	12968.7	14676.6	15188.5	15033.9	14212.8
65°	2787.1	2886.3	3571.8	6608.3	9236.5	12248.2	14847.2	15614.4	15563.4	14651.8
67.5°	1856.6	1939.8	2136.7	4531.5	7169.8	10808.7	14438.9	15540.0	15554.6	14580.3
70°	1118.6	1190.1	1318.5	2635.5	4646.7	8555.4	13174.4	14592.0	14676.6	13625.0
72.5°	460.9	509.0	625.7	1194.5	2406.5	5429.9	10490.8	12528.3	12725.2	11456.3
75°	261.1	285.9	367.5	599.4	1044.3	2530.4	6354.6	8893.8	9184.0	7896.2
77.5°	173.6	185.2	237.7	388.0	587.8	863.4	2715.7	4633.6	5187.8	4312.7
80°	116.7	126.9	163.3	259.6	382.1	370.5	864.9	1716.6	2111.9	1481.8
82.5°	78.8	80.2	116.7	170.6	242.1	179.4	255.2	533.8	670.9	428.8
85°	45.2	43.8	86.0	99.2	107.9	74.4	77.3	160.4	210.0	180.9
87.5°	5.8	8.8	33.5	26.3	14.6	16.0	16.0	27.7	40.8	43.8
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°
2530.4	0°	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4
2533.4	2.5°	2533.4	2531.9	2527.5	2523.2	2512.9	2507.1	2510.0	2507.1	2505.7	2507.1
2552.3	5°	2552.3	2548.0	2536.3	2521.7	2501.3	2476.5	2460.4	2437.1	2415.2	2402.1
2603.4	7.5°	2603.4	2599.0	2583.0	2542.1	2476.5	2372.9	2278.1	2195.0	2132.3	2095.8
2685.0	10°	2685.0	2677.8	2653.0	2562.5	2390.4	2164.4	1976.2	1820.2	1718.1	1670.0
2781.3	12.5°	2781.3	2772.6	2728.8	2543.6	2227.1	1874.1	1614.5	1441.0	1346.2	1303.9
2892.1	15°	2895.1	2883.4	2797.3	2453.1	1989.4	1553.3	1315.5	1185.7	1124.5	1086.6
3033.6	17.5°	3036.5	3016.1	2848.4	2317.5	1731.2	1308.2	1131.8	1034.1	980.1	943.6
3218.8	20°	3220.3	3186.8	2889.2	2155.6	1493.5	1153.7	1007.8	926.1	885.3	853.2
3481.4	22.5°	3477.0	3428.9	2938.8	1980.6	1325.8	1047.2	915.9	856.1	822.6	786.1
3847.4	25°	3794.9	3738.1	3000.1	1818.7	1210.5	955.3	848.8	799.2	759.9	717.6
4327.3	27.5°	4239.8	4137.7	3073.0	1686.0	1111.4	876.5	787.6	732.2	686.9	651.9
4871.3	30°	4735.7	4567.9	3137.2	1605.8	1020.9	803.6	707.4	651.9	609.6	584.8
5359.9	32.5°	5205.3	4977.8	3179.5	1570.8	939.3	720.5	619.9	560.1	528.0	520.7
5838.3	35°	5648.7	5348.2	3175.1	1537.2	866.3	637.4	533.8	472.5	447.8	452.1
6353.1	37.5°	6159.1	5743.5	3144.5	1484.7	806.5	561.5	459.4	405.5	383.6	385.0
6978.8	40°	6752.7	6200.0	3125.5	1385.5	740.9	491.5	398.2	354.4	338.4	332.5
7638.0	42.5°	7385.7	6641.9	3128.4	1273.2	659.2	428.8	355.9	319.4	304.8	300.4
8371.6	45°	8021.6	7063.4	3132.8	1156.6	573.2	380.7	325.2	294.6	285.9	280.0
9115.4	47.5°	8619.6	7422.2	3051.1	1031.1	488.6	344.2	300.4	280.0	272.7	265.4
9862.2	50°	9176.7	7661.4	2854.2	885.3	421.5	315.0	281.5	266.9	259.6	252.3
10538.9	52.5°	9609.9	7699.3	2529.0	735.1	374.8	293.2	269.8	256.7	247.9	240.6
11085.8	55°	9802.4	7461.5	2066.7	595.1	338.4	274.2	258.1	245.0	234.8	227.5
11516.1	57.5°	9752.8	6961.3	1611.6	478.4	303.4	255.2	243.6	234.8	223.1	211.5
11864.7	60°	9509.2	6291.8	1214.9	398.2	271.3	234.8	227.5	220.2	204.2	186.7
11998.8	62.5°	9087.7	5450.3	866.3	329.6	236.3	211.5	208.6	202.7	179.4	147.3
11800.5	65°	8443.1	4427.9	583.4	274.2	202.7	185.2	186.7	176.5	145.8	109.4
11074.2	67.5°	7500.9	3237.8	373.4	224.6	169.2	154.6	156.1	150.2	124.0	93.3
9697.4	70°	6300.6	2144.0	243.6	170.6	135.6	119.6	128.3	129.8	105.0	75.8
7442.6	72.5°	4619.0	1266.0	170.6	126.9	99.2	83.1	105.0	107.9	84.6	56.9
4477.5	75°	2632.5	600.9	128.3	91.9	61.3	58.3	81.7	81.7	58.3	37.9
1938.3	77.5°	1105.5	250.9	90.4	59.8	35.0	33.5	55.4	51.0	29.2	17.5
472.5	80°	319.4	112.3	48.1	29.2	14.6	13.1	21.9	16.0	7.3	2.9
179.4	82.5°	125.4	49.6	19.0	11.7	5.8	5.8	2.9	0.0	0.0	0.0
102.1	85°	74.4	20.4	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
21.9	87.5°	19.0	4.4	2.9	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>
2530.4
2512.9
2405.0
2097.3
1665.6
1299.5
1088.0
940.7
847.4
780.3
713.2
644.6
580.5
525.0
452.1
390.9
331.1
299.0
280.0
265.4
252.3
239.2
226.1
210.0
183.8
144.4
106.5
89.0
72.9
54.0
35.0
17.5
2.9
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