

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: P941168

Luminaire Tested: **GALN-SB4C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19761 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

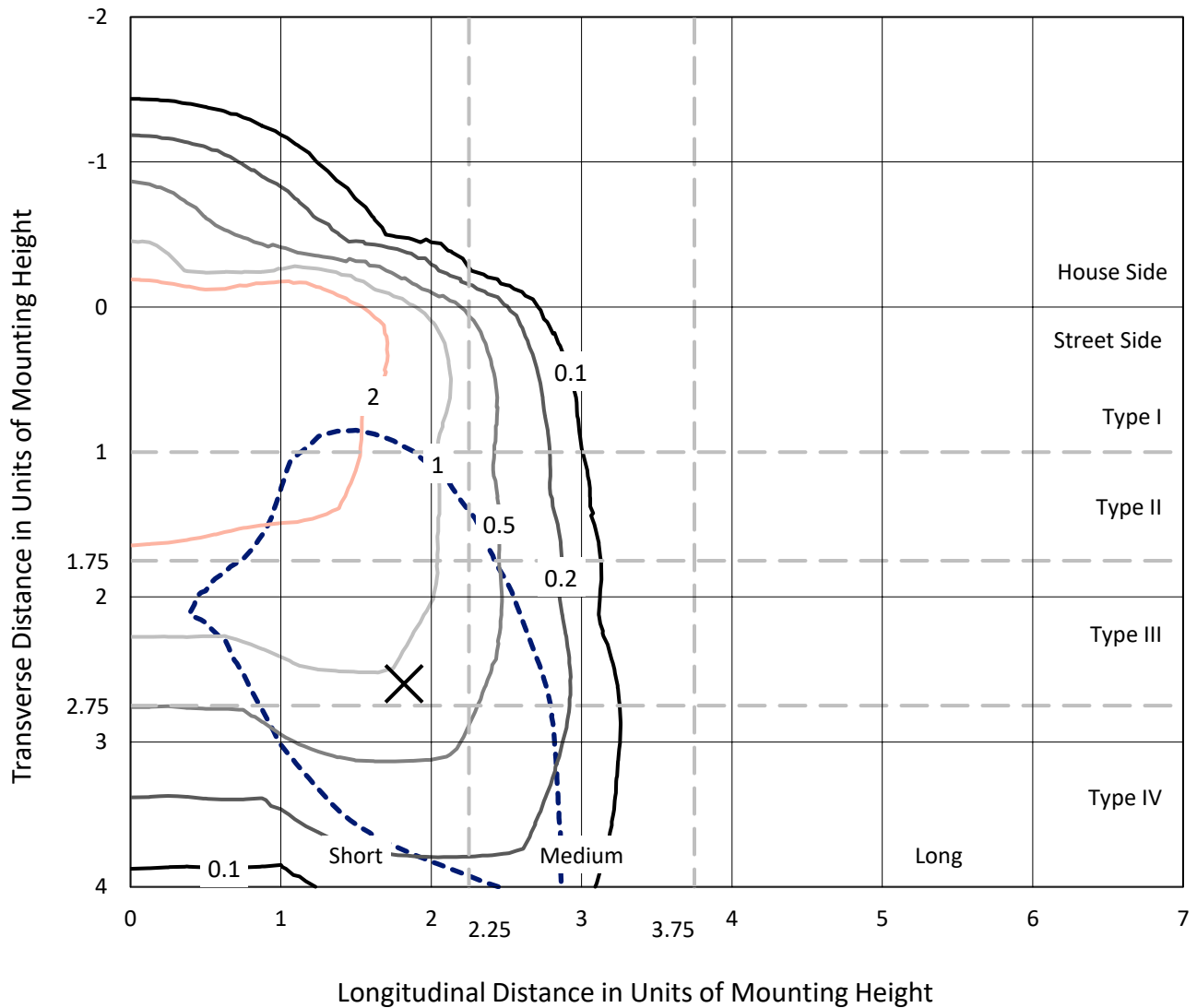
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

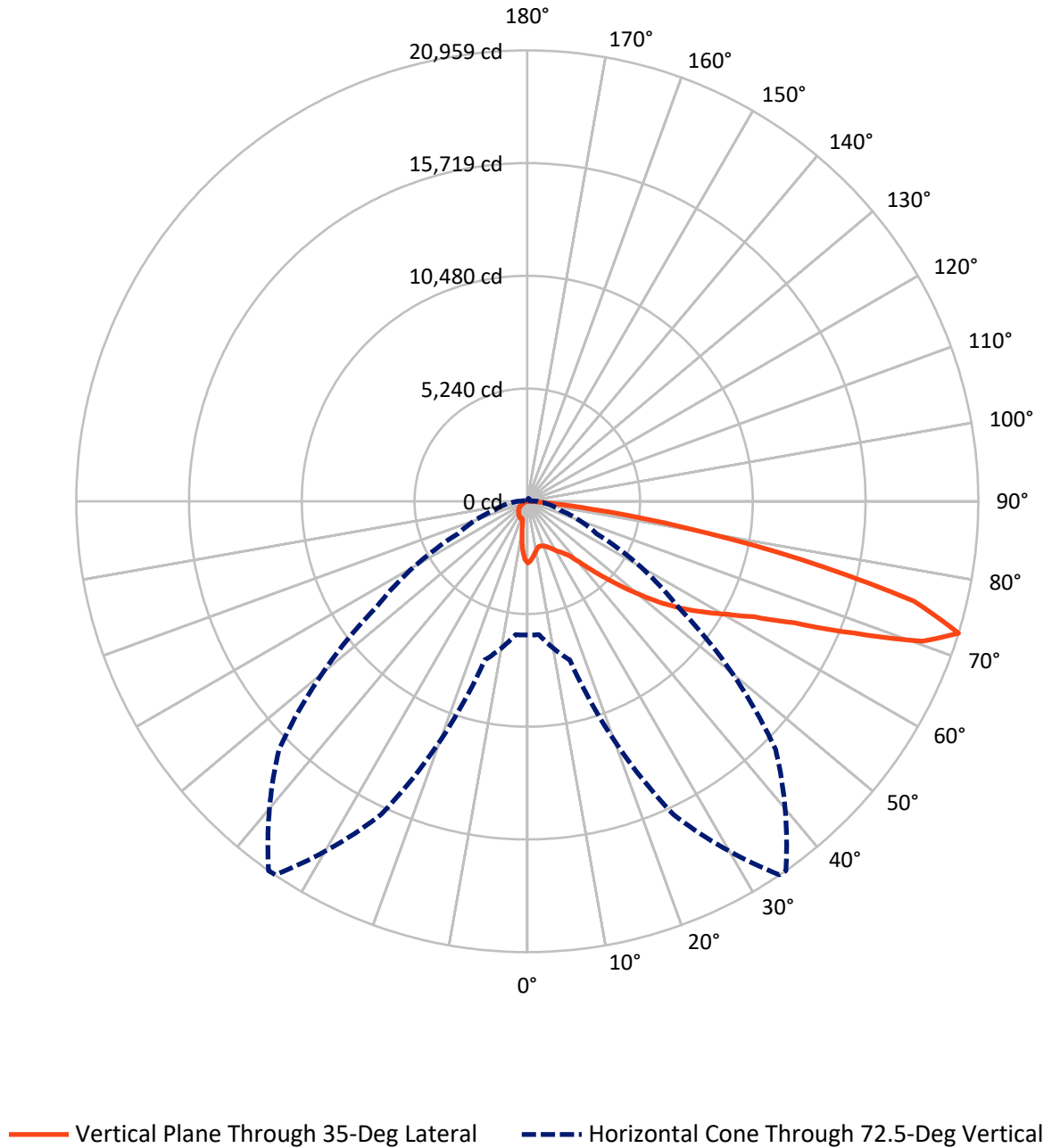
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2224.0	0.0	2224.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	17537.0	0.0	17537.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	19761.0	0.0	19761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	1.2
10°-20°	550.6	2.8
20°-30°	894.4	4.5
30°-40°	1492.3	7.6
40°-50°	2823.4	14.3
50°-60°	4486.4	22.7
60°-70°	5550.0	28.1
70°-80°	3449.9	17.5
80°-90°	278.8	1.4
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°	19761.0	100.0
0°-180°	19761.0	100.0

Coefficient of Utilization



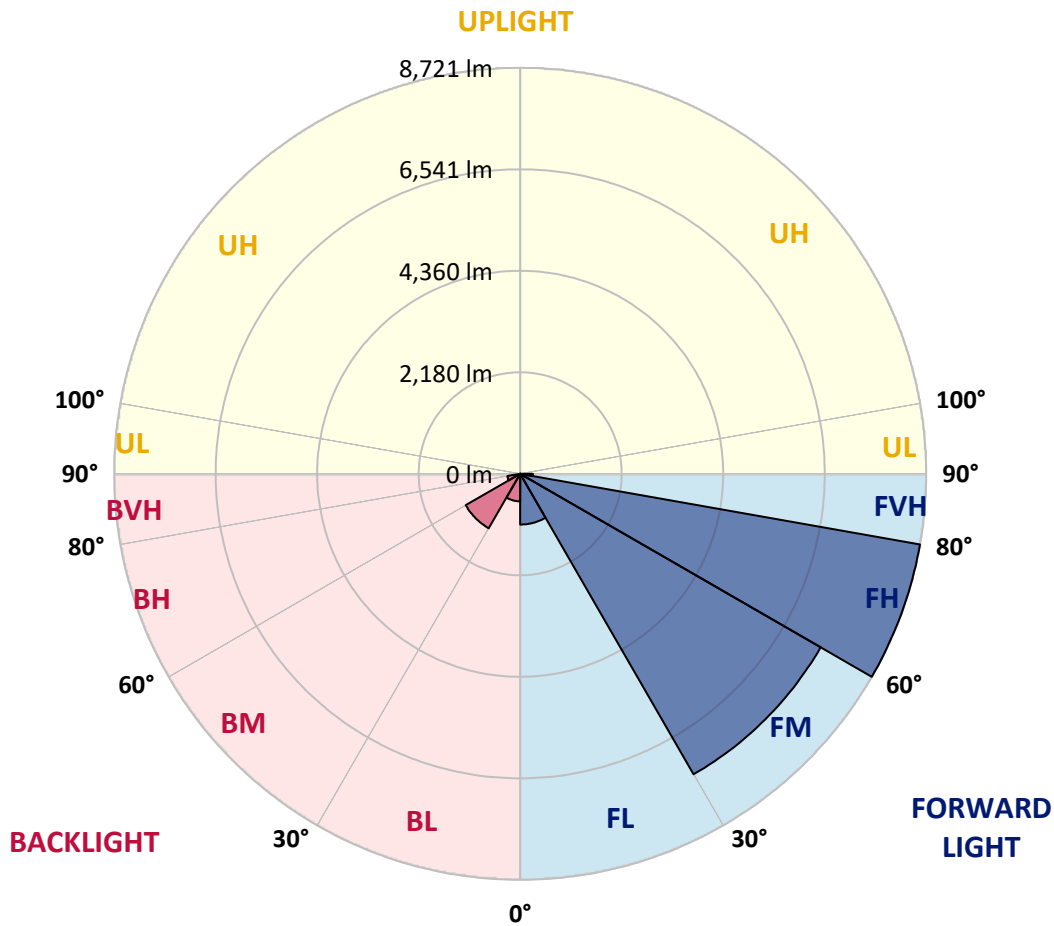
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.3	5.5			
FM (30°-60°)	7451.9	37.7			
FH (60°-80°)	8720.8	44.1			G4/12000
FVH (80°-90°)	275.0	1.4			G3/500
BL (0°-30°)	591.0	3.0	B2/1000		
BM (30°-60°)	1350.2	6.8	B2/2500		
BH (60°-80°)	279.1	1.4	B1/500		G1/500
BVH (80°-90°)	3.8	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0
2.5°	2736.6	2759.8	2764.1	2771.4	2771.4	2780.1	2794.5	2814.8	2848.1	2865.5
5°	2522.3	2539.7	2561.4	2578.8	2612.1	2616.4	2672.9	2727.9	2804.7	2862.6
7.5°	2306.6	2326.8	2355.8	2397.8	2441.2	2454.3	2539.7	2632.4	2754.0	2862.6
10°	2154.5	2156.0	2182.1	2224.0	2293.5	2309.5	2413.7	2545.5	2697.5	2845.2
12.5°	2069.1	2079.2	2090.8	2122.7	2189.3	2199.4	2310.9	2465.8	2641.0	2835.1
15°	2069.1	2076.4	2083.6	2099.5	2153.1	2161.8	2260.2	2415.2	2612.1	2839.4
17.5°	2090.8	2102.4	2096.6	2115.4	2171.9	2177.7	2264.6	2400.7	2610.6	2866.9
20°	2143.0	2151.6	2140.1	2151.6	2208.1	2219.7	2309.5	2428.2	2635.3	2914.7
22.5°	2225.5	2229.8	2202.3	2211.0	2268.9	2283.4	2387.7	2506.4	2694.6	2991.5
25°	2329.7	2338.4	2296.4	2306.6	2361.6	2379.0	2499.1	2623.7	2788.7	3097.2
27.5°	2449.9	2454.3	2418.1	2416.6	2487.6	2512.2	2633.8	2768.5	2914.7	3230.4
30°	2587.5	2600.5	2565.8	2560.0	2649.7	2670.0	2790.2	2946.6	3100.0	3430.2
32.5°	2696.1	2706.2	2685.9	2700.4	2791.6	2807.6	2979.9	3198.5	3391.1	3714.0
35°	2852.4	2858.2	2811.9	2838.0	2942.2	2982.8	3239.0	3551.8	3757.4	4070.2
37.5°	3418.6	3418.6	3221.7	3092.8	3192.7	3228.9	3593.8	3996.3	4209.2	4548.0
40°	4201.9	4188.9	3900.8	3637.2	3624.2	3695.2	4099.1	4556.7	4792.7	5121.4
42.5°	5037.4	5017.1	4624.7	4364.1	4320.7	4345.3	4682.6	5247.3	5487.7	5820.7
45°	5778.7	5772.9	5413.9	5063.5	4985.3	5063.5	5411.0	6055.3	6227.6	6578.0
47.5°	6399.9	6399.9	6137.8	5909.1	5868.5	5914.8	6397.0	6951.6	6935.6	7384.5
50°	7115.2	7109.4	6860.4	6761.9	6803.9	6869.0	7532.2	7895.6	7668.3	8176.5
52.5°	7616.2	7650.9	7565.5	7549.6	7763.9	7876.8	8684.8	8819.4	8324.2	8928.0
55°	8012.9	8053.5	8151.9	8263.4	8676.1	8823.8	9801.1	9695.4	8873.0	9579.6
57.5°	8574.7	8516.8	8668.8	8888.9	9556.4	9734.5	10882.7	10522.2	9314.6	10108.1
60°	9256.7	9265.4	9291.5	9569.5	10435.3	10664.1	11948.4	11304.1	9598.4	10432.4
62.5°	10076.2	10089.3	10142.8	10570.0	11615.4	11831.1	13083.6	11944.1	9728.7	10341.2
65°	10019.8	10074.8	10672.8	12133.8	13409.4	13622.2	14408.5	12392.9	9531.8	9507.2
67.5°	9127.8	9217.6	10218.1	14001.6	16114.2	16351.6	16009.9	12481.3	8681.9	7393.2
70°	7957.9	7989.8	9193.0	15681.2	19246.1	19486.4	17443.4	11509.7	6588.1	4123.7
72.5°	6214.6	6221.8	7633.6	16070.7	20945.9	20959.0	16318.3	8544.3	3543.1	1584.0
75°	4439.4	4396.0	5112.7	13032.9	18428.0	18575.7	12233.7	4007.9	1353.8	748.6
77.5°	2380.4	2428.2	2893.0	7729.1	12730.3	12982.3	6675.0	1155.5	689.2	509.7
80°	735.6	776.1	1185.9	3538.8	7210.8	7362.8	2474.5	514.0	480.7	363.4
82.5°	231.7	240.4	553.1	1487.0	2992.9	3062.4	716.7	291.0	328.7	240.4
85°	66.6	68.1	246.2	554.6	739.9	754.4	201.3	112.9	188.2	149.1
87.5°	7.2	23.2	92.7	92.7	65.2	63.7	21.7	24.6	53.6	18.8
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°
2864.0	0°	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0
2877.1	2.5°	2869.8	2871.3	2852.4	2820.6	2785.8	2756.9	2720.7	2691.7	2671.5	2665.7
2903.1	5°	2890.1	2880.0	2826.4	2729.4	2613.5	2513.6	2402.1	2313.8	2255.9	2231.3
2930.6	7.5°	2920.5	2891.5	2774.3	2583.1	2361.6	2164.7	1964.9	1809.9	1711.5	1662.2
2956.7	10°	2946.6	2888.6	2687.4	2371.7	2032.9	1734.6	1465.3	1278.5	1174.3	1125.1
2987.1	12.5°	2971.2	2887.2	2574.4	2121.2	1662.2	1297.4	1046.9	954.2	925.2	915.1
3036.3	15°	3017.5	2891.5	2432.5	1834.5	1293.0	980.3	889.0	887.6	893.4	890.5
3111.6	17.5°	3081.2	2895.9	2271.8	1530.5	997.6	864.4	860.1	873.1	881.8	877.5
3205.7	20°	3163.8	2913.3	2101.0	1229.3	857.2	835.5	845.6	857.2	864.4	857.2
3331.7	22.5°	3279.6	2943.7	1914.2	987.5	812.3	818.1	826.8	839.8	847.0	836.9
3492.4	25°	3421.5	2991.5	1730.3	858.6	790.6	797.8	810.8	825.3	834.0	823.9
3695.2	27.5°	3605.4	3068.2	1560.9	829.7	768.9	773.2	792.0	813.7	825.3	812.3
3983.3	30°	3871.8	3194.2	1414.6	842.7	755.8	745.7	771.8	802.2	815.2	803.6
4375.7	32.5°	4225.1	3372.3	1324.9	863.0	750.0	713.8	738.5	777.5	799.3	792.0
4888.3	35°	4688.4	3643.0	1290.1	886.1	745.7	680.5	697.9	739.9	777.5	784.8
5534.0	37.5°	5250.2	4019.5	1300.3	896.3	732.7	653.0	661.7	697.9	747.1	770.3
6260.9	40°	5888.8	4458.2	1358.2	886.1	718.2	629.9	631.3	658.8	702.3	737.0
7042.8	42.5°	6547.6	4970.8	1465.3	848.5	705.1	609.6	605.2	624.1	653.0	677.6
7823.2	45°	7174.6	5497.8	1571.0	796.4	689.2	589.3	579.2	586.4	592.2	602.3
8583.4	47.5°	7721.9	5868.5	1540.6	748.6	667.5	566.1	548.8	545.9	528.5	527.1
9262.5	50°	8099.8	5949.6	1368.3	700.8	635.6	540.1	512.6	495.2	464.8	450.3
9770.7	52.5°	8220.0	5629.6	1117.8	653.0	583.5	505.3	466.2	438.7	401.1	388.0
10063.2	55°	8060.7	5002.6	893.4	595.1	511.1	459.0	415.6	379.4	349.0	333.0
10095.1	57.5°	7671.2	4204.8	706.6	527.1	434.4	406.9	363.4	327.2	301.2	285.2
9741.8	60°	7025.4	3339.0	558.9	446.0	370.7	350.4	305.5	282.3	259.2	240.4
8829.6	62.5°	6045.2	2383.3	438.7	353.3	309.9	286.7	260.6	243.3	215.7	189.7
7189.0	65°	4717.4	1458.1	338.8	259.2	249.0	237.5	221.5	205.6	172.3	146.2
4689.9	67.5°	2975.5	690.7	241.8	195.5	196.9	191.1	183.9	170.9	146.2	123.1
2101.0	70°	1310.4	334.5	159.3	149.1	146.2	146.2	152.0	147.7	124.5	102.8
729.8	72.5°	446.0	179.5	118.7	112.9	105.7	104.3	127.4	123.1	99.9	79.6
363.4	75°	233.1	120.2	86.9	81.1	63.7	76.7	101.4	95.6	70.9	52.1
240.4	77.5°	152.0	85.4	59.4	52.1	36.2	50.7	75.3	66.6	42.0	26.1
157.8	80°	95.6	56.5	34.8	24.6	17.4	27.5	40.5	29.0	15.9	5.8
92.7	82.5°	50.7	29.0	13.0	8.7	7.2	8.7	10.1	7.2	2.9	0.0
47.8	85°	20.3	10.1	4.3	2.9	1.4	0.0	2.9	1.4	0.0	0.0
8.7	87.5°	7.2	1.4	0.0	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>
2864.0
2675.8
2240.0
1669.5
1126.5
912.2
889.0
876.0
855.7
835.5
822.4
812.3
802.2
792.0
784.8
776.1
748.6
687.8
608.1
525.6
451.8
386.6
333.0
282.3
236.0
185.3
141.9
120.2
98.5
75.3
47.8
23.2
4.3
0.0
0.0
0.0
0.0

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