

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: P941478

Luminaire Tested: **GALN-SB5A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941478
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-SB5A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA 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: 18151 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

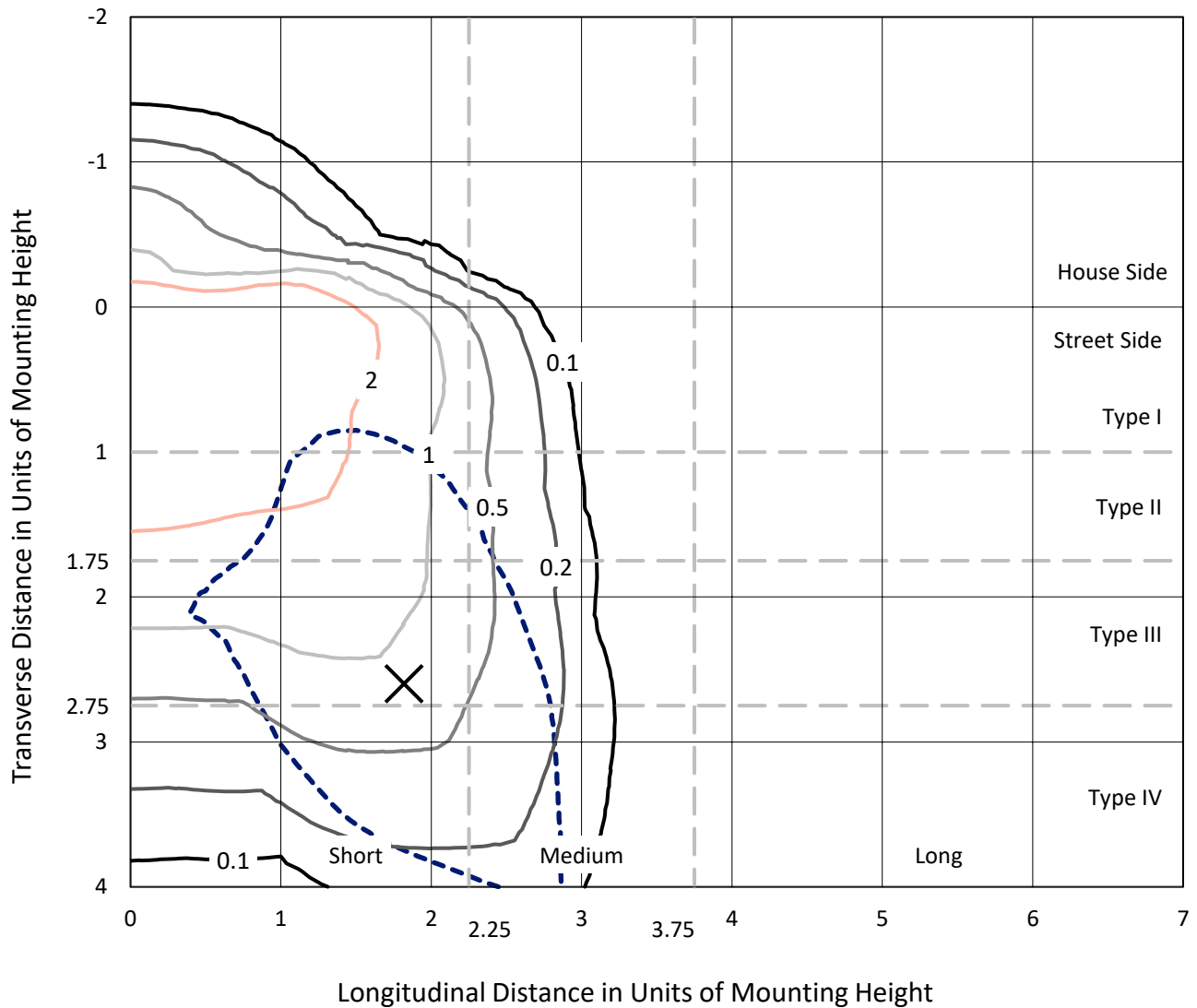
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

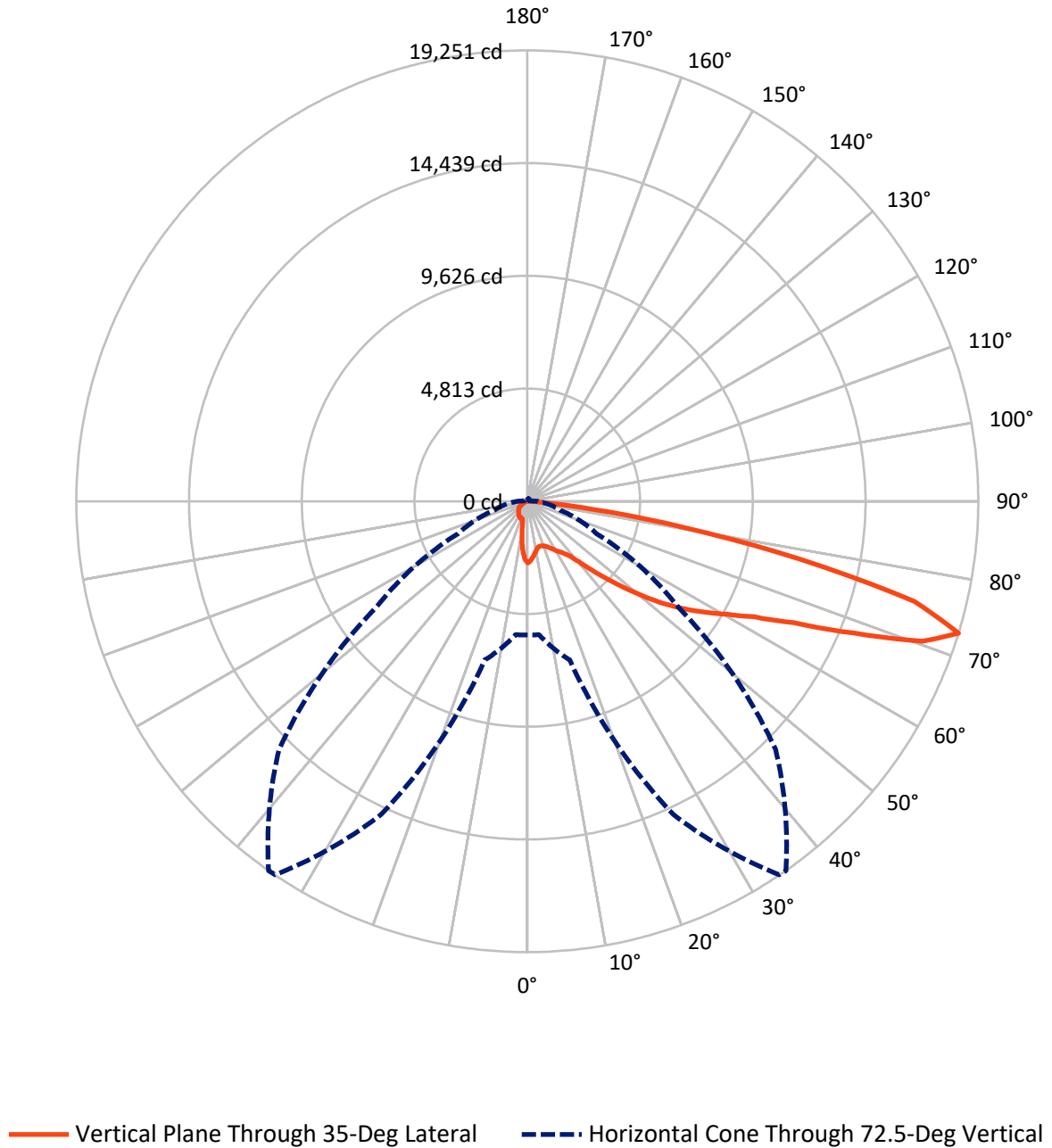
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2042.8	0.0	2042.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	16108.2	0.0	16108.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	18151.0	0.0	18151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	1.2
10°-20°	505.7	2.8
20°-30°	821.5	4.5
30°-40°	1370.7	7.6
40°-50°	2593.4	14.3
50°-60°	4120.9	22.7
60°-70°	5097.8	28.1
70°-80°	3168.8	17.5
80°-90°	256.1	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°	18151.0	100.0
0°-180°	18151.0	100.0

Coefficient of Utilization



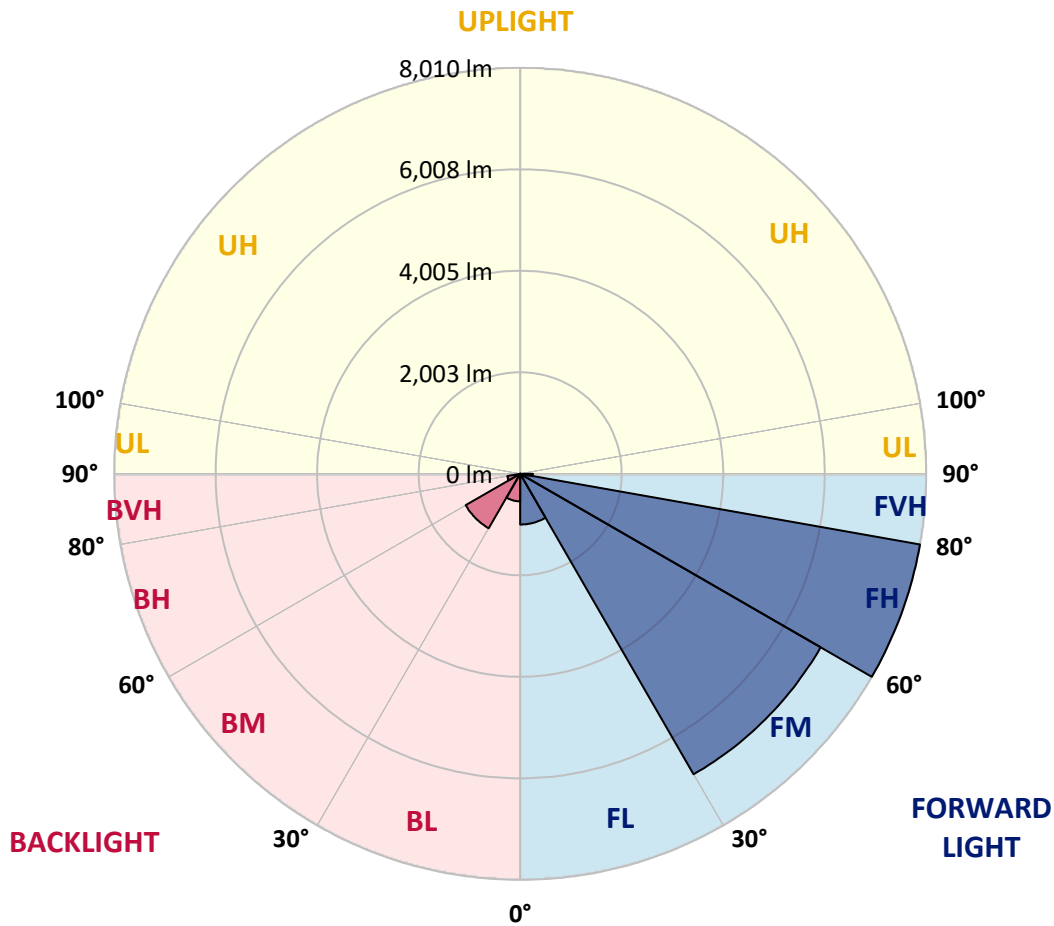
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.6	5.5			
FM (30°-60°)	6844.7	37.7			
FH (60°-80°)	8010.3	44.1			G4/12000
FVH (80°-90°)	252.6	1.4			G3/500
BL (0°-30°)	542.8	3.0	B2/1000		
BM (30°-60°)	1240.2	6.8	B2/2500		
BH (60°-80°)	256.3	1.4	B1/500		G1/500
BVH (80°-90°)	3.5	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7
2.5°	2513.7	2534.9	2538.9	2545.6	2545.6	2553.5	2566.8	2585.5	2616.1	2632.0
5°	2316.8	2332.8	2352.7	2368.7	2399.3	2403.3	2455.1	2505.7	2576.2	2629.4
7.5°	2118.6	2137.3	2163.9	2202.4	2242.3	2254.3	2332.8	2417.9	2529.6	2629.4
10°	1979.0	1980.3	2004.3	2042.8	2106.7	2121.3	2217.1	2338.1	2477.7	2613.4
12.5°	1900.5	1909.8	1920.5	1949.7	2010.9	2020.2	2122.6	2264.9	2425.9	2604.1
15°	1900.5	1907.2	1913.8	1928.5	1977.7	1985.7	2076.1	2218.4	2399.3	2608.1
17.5°	1920.5	1931.1	1925.8	1943.1	1995.0	2000.3	2080.1	2205.1	2397.9	2633.3
20°	1968.4	1976.3	1965.7	1976.3	2028.2	2038.9	2121.3	2230.4	2420.6	2677.2
22.5°	2044.2	2048.2	2022.9	2030.9	2084.1	2097.4	2193.1	2302.2	2475.1	2747.7
25°	2139.9	2147.9	2109.3	2118.6	2169.2	2185.1	2295.5	2409.9	2561.5	2844.8
27.5°	2250.3	2254.3	2221.1	2219.7	2284.9	2307.5	2419.2	2542.9	2677.2	2967.2
30°	2376.7	2388.6	2356.7	2351.4	2433.9	2452.5	2562.9	2706.5	2847.5	3150.7
32.5°	2476.4	2485.7	2467.1	2480.4	2564.2	2578.8	2737.1	2937.9	3114.8	3411.4
35°	2620.0	2625.4	2582.8	2606.7	2702.5	2739.7	2975.2	3262.4	3451.3	3738.6
37.5°	3140.1	3140.1	2959.2	2840.8	2932.6	2965.8	3301.0	3670.7	3866.2	4177.4
40°	3859.6	3847.6	3582.9	3340.9	3328.9	3394.1	3765.2	4185.4	4402.2	4704.1
42.5°	4627.0	4608.4	4247.9	4008.5	3968.6	3991.3	4301.1	4819.8	5040.6	5346.5
45°	5307.9	5302.6	4972.8	4650.9	4579.1	4650.9	4970.1	5562.0	5720.2	6042.1
47.5°	5878.5	5878.5	5637.8	5427.6	5390.4	5432.9	5875.8	6385.2	6370.6	6782.9
50°	6535.5	6530.2	6301.4	6211.0	6249.5	6309.4	6918.5	7252.3	7043.5	7510.4
52.5°	6995.7	7027.6	6949.1	6934.5	7131.3	7235.1	7977.2	8100.9	7646.0	8200.6
55°	7360.1	7397.3	7487.8	7590.2	7969.2	8104.9	9002.6	8905.5	8150.1	8799.1
57.5°	7876.1	7822.9	7962.6	8164.7	8777.8	8941.4	9996.1	9664.9	8555.7	9284.5
60°	8502.5	8510.5	8534.4	8789.8	9585.1	9795.3	10974.9	10383.1	8816.4	9582.5
62.5°	9255.3	9267.3	9316.5	9708.8	10669.1	10867.2	12017.6	10971.0	8936.1	9498.7
65°	9203.4	9254.0	9803.2	11145.2	12316.9	12512.4	13234.6	11383.2	8755.2	8732.6
67.5°	8384.2	8466.6	9385.6	12860.8	14801.3	15019.4	14705.5	11464.4	7974.5	6790.8
70°	7309.5	7338.8	8444.0	14403.6	17678.0	17898.8	16022.2	10572.0	6051.4	3787.8
72.5°	5708.2	5714.9	7011.6	14761.4	19239.4	19251.4	14988.8	7848.2	3254.4	1455.0
75°	4077.7	4037.8	4696.1	11971.1	16926.6	17062.2	11236.9	3681.4	1243.5	687.6
77.5°	2186.5	2230.4	2657.3	7099.4	11693.1	11924.5	6131.2	1061.3	633.1	468.2
80°	675.6	712.9	1089.2	3250.5	6623.3	6762.9	2272.9	472.1	441.6	333.8
82.5°	212.8	220.8	508.1	1365.9	2749.1	2812.9	658.3	267.3	301.9	220.8
85°	61.2	62.5	226.1	509.4	679.6	692.9	184.9	103.7	172.9	137.0
87.5°	6.6	21.3	85.1	85.1	59.8	58.5	19.9	22.6	49.2	17.3
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°
2630.7	0°	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7	2630.7
2642.7	2.5°	2636.0	2637.3	2620.0	2590.8	2558.9	2532.3	2499.0	2472.4	2453.8	2448.5
2666.6	5°	2654.6	2645.3	2596.1	2507.0	2400.6	2308.8	2206.4	2125.3	2072.1	2049.5
2691.9	7.5°	2682.6	2656.0	2548.2	2372.7	2169.2	1988.3	1804.8	1662.5	1572.0	1526.8
2715.8	10°	2706.5	2653.3	2468.4	2178.5	1867.3	1593.3	1345.9	1174.4	1078.6	1033.4
2743.7	12.5°	2729.1	2652.0	2364.7	1948.4	1526.8	1191.7	961.6	876.5	849.9	840.5
2789.0	15°	2771.7	2656.0	2234.4	1685.1	1187.7	900.4	816.6	815.3	820.6	817.9
2858.1	17.5°	2830.2	2659.9	2086.7	1405.8	916.4	794.0	790.0	802.0	810.0	806.0
2944.6	20°	2906.0	2675.9	1929.8	1129.1	787.3	767.4	776.7	787.3	794.0	787.3
3060.3	22.5°	3012.4	2703.8	1758.2	907.0	746.1	751.4	759.4	771.4	778.0	768.7
3207.9	25°	3142.7	2747.7	1589.3	788.7	726.2	732.8	744.8	758.1	766.1	756.8
3394.1	27.5°	3311.6	2818.2	1433.7	762.1	706.2	710.2	727.5	747.4	758.1	746.1
3658.8	30°	3556.4	2933.9	1299.4	774.0	694.2	684.9	708.9	736.8	748.8	738.1
4019.2	32.5°	3880.9	3097.5	1216.9	792.7	688.9	655.7	678.3	714.2	734.1	727.5
4490.0	35°	4306.5	3346.2	1185.0	813.9	684.9	625.1	641.0	679.6	714.2	720.8
5083.2	37.5°	4822.5	3692.0	1194.3	823.3	673.0	599.8	607.8	641.0	686.3	707.5
5750.8	40°	5409.0	4095.0	1247.5	813.9	659.7	578.5	579.9	605.1	645.0	677.0
6469.0	42.5°	6014.1	4565.8	1345.9	779.4	647.7	559.9	555.9	573.2	599.8	622.4
7185.8	45°	6590.0	5049.9	1443.0	731.5	633.1	541.3	532.0	538.6	544.0	553.3
7884.1	47.5°	7092.8	5390.4	1415.1	687.6	613.1	520.0	504.1	501.4	485.4	484.1
8507.8	50°	7439.9	5464.9	1256.8	643.7	583.9	496.1	470.8	454.9	426.9	413.6
8974.7	52.5°	7550.3	5170.9	1026.7	599.8	536.0	464.2	428.3	403.0	368.4	356.4
9243.3	55°	7404.0	4595.1	820.6	546.6	469.5	421.6	381.7	348.5	320.5	305.9
9272.6	57.5°	7046.2	3862.2	649.0	484.1	399.0	373.7	333.8	300.6	276.6	262.0
8948.1	60°	6453.0	3066.9	513.4	409.6	340.5	321.9	280.6	259.3	238.1	220.8
8110.2	62.5°	5552.6	2189.1	403.0	324.5	284.6	263.3	239.4	223.4	198.2	174.2
6603.3	65°	4333.1	1339.3	311.2	238.1	228.8	218.1	203.5	188.9	158.3	134.3
4307.8	67.5°	2733.1	634.4	222.1	179.5	180.9	175.6	168.9	156.9	134.3	113.0
1929.8	70°	1203.6	307.2	146.3	137.0	134.3	134.3	139.6	135.7	114.4	94.4
670.3	72.5°	409.6	164.9	109.1	103.7	97.1	95.8	117.0	113.0	91.8	73.1
333.8	75°	214.1	110.4	79.8	74.5	58.5	70.5	93.1	87.8	65.2	47.9
220.8	77.5°	139.6	78.5	54.5	47.9	33.2	46.5	69.2	61.2	38.6	23.9
145.0	80°	87.8	51.9	31.9	22.6	16.0	25.3	37.2	26.6	14.6	5.3
85.1	82.5°	46.5	26.6	12.0	8.0	6.6	8.0	9.3	6.6	2.7	0.0
43.9	85°	18.6	9.3	4.0	2.7	1.3	0.0	2.7	1.3	0.0	0.0
8.0	87.5°	6.6	1.3	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>
2630.7
2457.8
2057.5
1533.5
1034.7
837.9
816.6
804.6
786.0
767.4
755.4
746.1
736.8
727.5
720.8
712.9
687.6
631.7
558.6
482.8
415.0
355.1
305.9
259.3
216.8
170.2
130.3
110.4
90.4
69.2
43.9
21.3
4.0
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