

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: P942188

Luminaire Tested: **GALN-SB6A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942188
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-SB6A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 17909 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

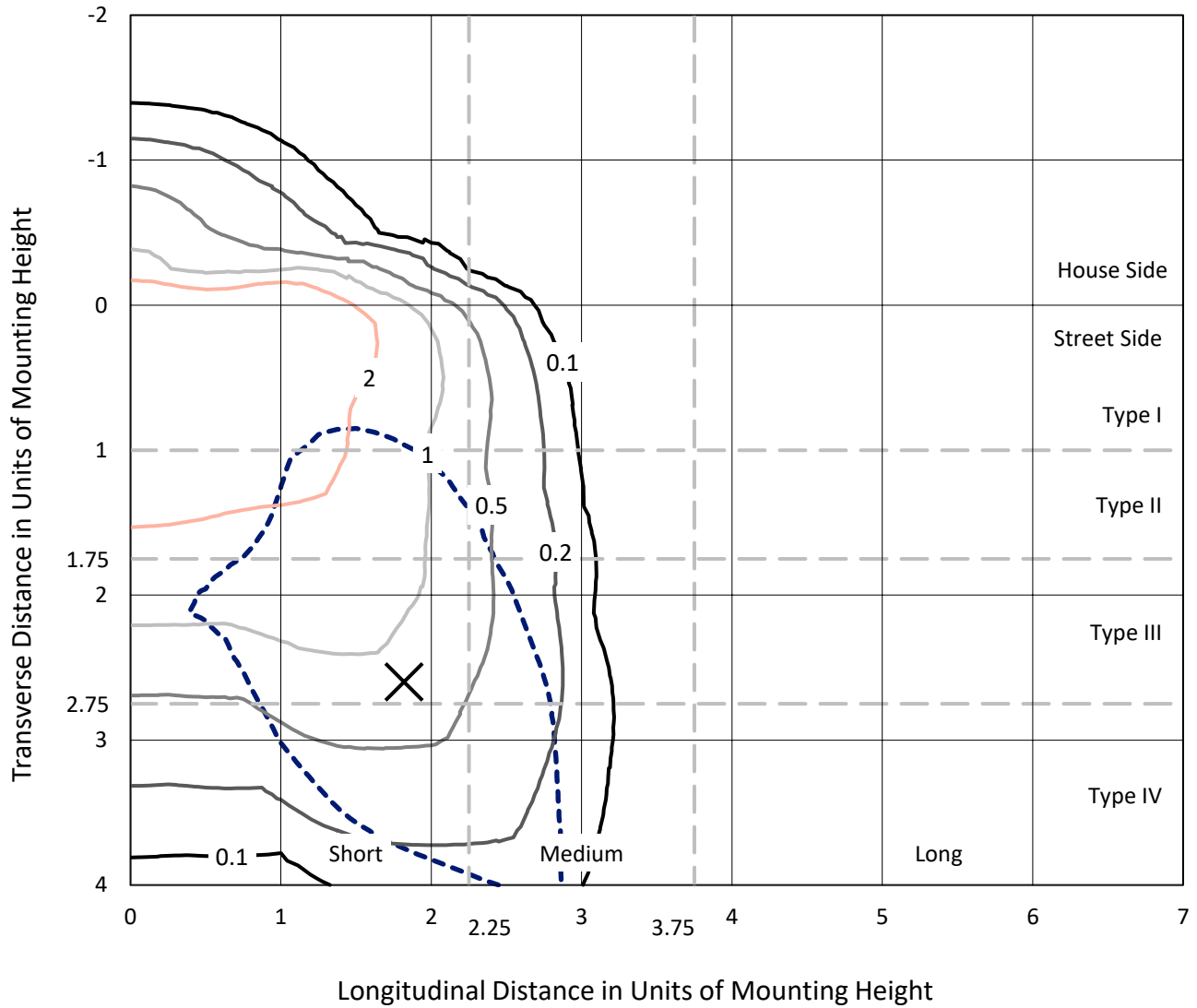
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

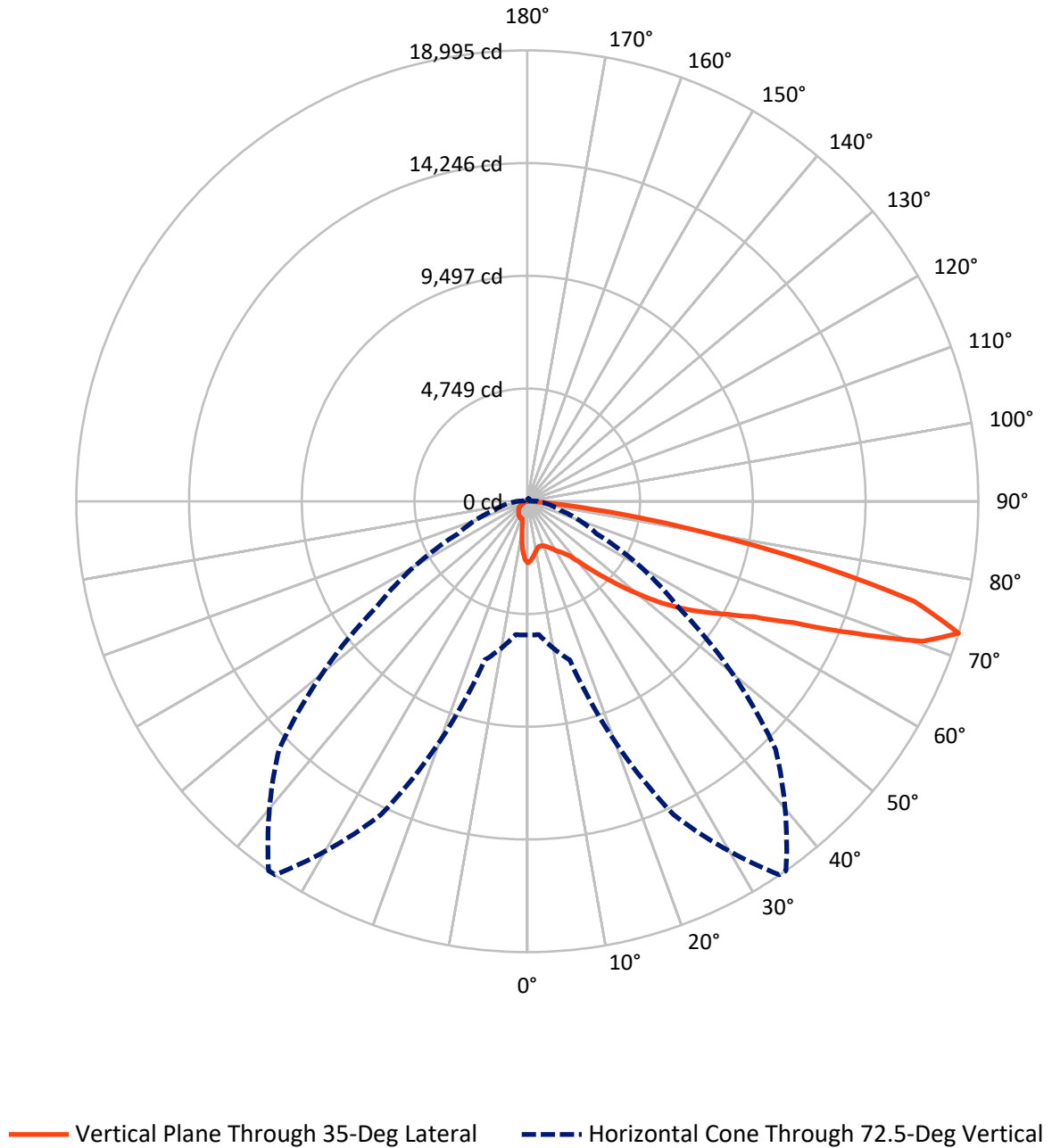
✕ Max cd
 - - - 1/2 Max cd



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	2015.6	0.0	2015.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	15893.4	0.0	15893.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	17909.0	0.0	17909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	1.2
10°-20°	499.0	2.8
20°-30°	810.6	4.5
30°-40°	1352.4	7.6
40°-50°	2558.8	14.3
50°-60°	4065.9	22.7
60°-70°	5029.8	28.1
70°-80°	3126.6	17.5
80°-90°	252.7	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°	17909.0	100.0
0°-180°	17909.0	100.0

Coefficient of Utilization



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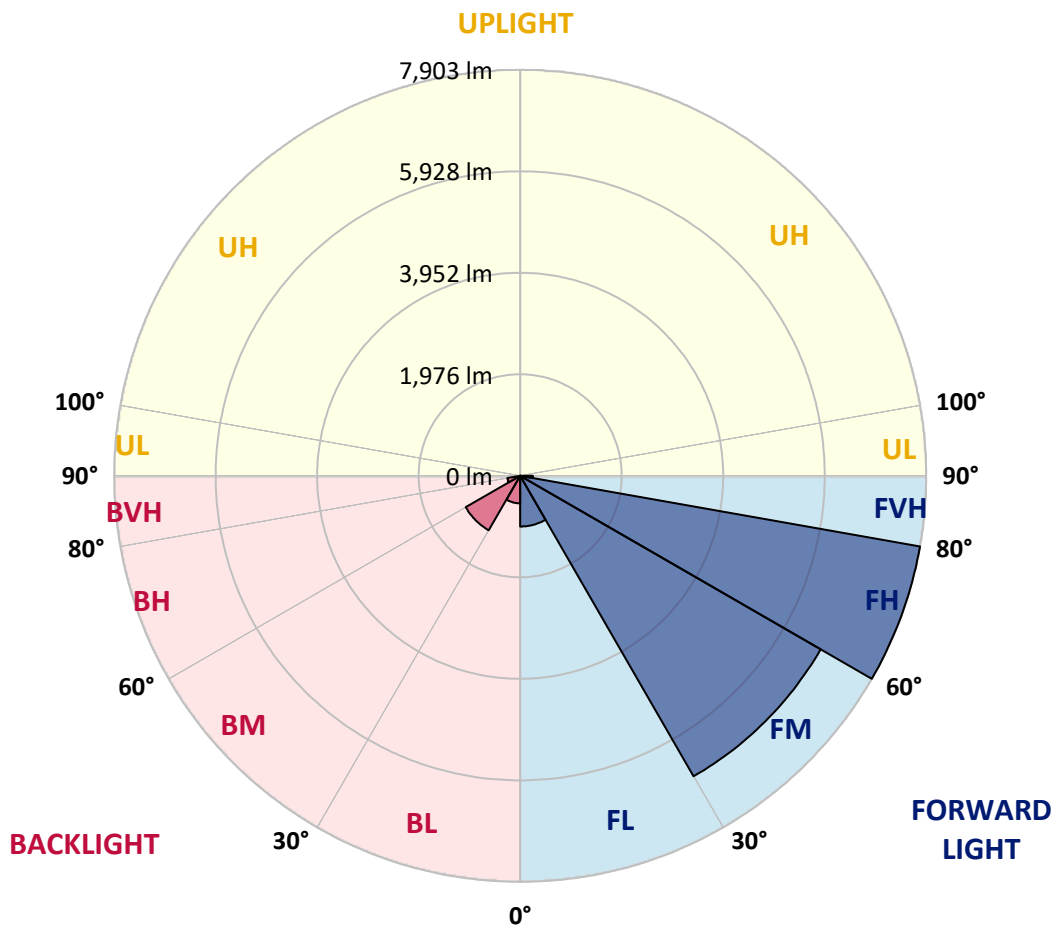
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.2	5.5			
FM (30°-60°)	6753.5	37.7			
FH (60°-80°)	7903.5	44.1			G4/12000
FVH (80°-90°)	249.2	1.4			G3/500
BL (0°-30°)	535.6	3.0	B2/1000		
BM (30°-60°)	1223.6	6.8	B2/2500		
BH (60°-80°)	252.9	1.4	B1/500		G1/500
BVH (80°-90°)	3.4	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°	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6
2.5°	2480.1	2501.1	2505.1	2511.6	2511.6	2519.5	2532.6	2551.0	2581.2	2596.9
5°	2285.9	2301.7	2321.4	2337.1	2367.3	2371.2	2422.4	2472.3	2541.8	2594.3
7.5°	2090.4	2108.8	2135.0	2173.1	2212.4	2224.3	2301.7	2385.7	2495.9	2594.3
10°	1952.6	1953.9	1977.5	2015.6	2078.6	2093.0	2187.5	2306.9	2444.7	2578.6
12.5°	1875.2	1884.4	1894.9	1923.7	1984.1	1993.3	2094.3	2234.7	2393.5	2569.4
15°	1875.2	1881.8	1888.3	1902.8	1951.3	1959.2	2048.4	2188.8	2367.3	2573.3
17.5°	1894.9	1905.4	1900.1	1917.2	1968.4	1973.6	2052.3	2175.7	2366.0	2598.2
20°	1942.1	1950.0	1939.5	1950.0	2001.2	2011.7	2093.0	2200.6	2388.3	2641.5
22.5°	2016.9	2020.9	1995.9	2003.8	2056.3	2069.4	2163.9	2271.5	2442.1	2711.1
25°	2111.4	2119.3	2081.2	2090.4	2140.3	2156.0	2264.9	2377.8	2527.4	2806.9
27.5°	2220.3	2224.3	2191.4	2190.1	2254.4	2276.7	2387.0	2509.0	2641.5	2927.6
30°	2345.0	2356.8	2325.3	2320.0	2401.4	2419.8	2528.7	2670.4	2809.5	3108.7
32.5°	2443.4	2452.6	2434.2	2447.3	2530.0	2544.4	2700.6	2898.7	3073.3	3365.9
35°	2585.1	2590.4	2548.4	2572.0	2666.5	2703.2	2935.5	3218.9	3405.3	3688.7
37.5°	3098.2	3098.2	2919.7	2802.9	2893.5	2926.3	3257.0	3621.8	3814.7	4121.8
40°	3808.1	3796.3	3535.2	3296.4	3284.5	3348.8	3715.0	4129.6	4343.5	4641.4
42.5°	4565.3	4546.9	4191.3	3955.1	3915.7	3938.0	4243.8	4755.6	4973.4	5275.2
45°	5237.2	5231.9	4906.5	4588.9	4518.0	4588.9	4903.8	5487.8	5644.0	5961.5
47.5°	5800.1	5800.1	5562.6	5355.3	5318.5	5360.5	5797.5	6300.1	6285.6	6692.4
50°	6448.4	6443.1	6217.4	6128.2	6166.2	6225.3	6826.3	7155.7	6949.6	7410.2
52.5°	6902.4	6933.9	6856.5	6842.0	7036.2	7138.6	7870.8	7992.9	7544.1	8091.3
55°	7261.9	7298.7	7387.9	7489.0	7863.0	7996.8	8882.6	8786.8	8041.4	8681.8
57.5°	7771.1	7718.6	7856.4	8055.9	8660.8	8822.2	9862.8	9536.1	8441.7	9160.8
60°	8389.2	8397.0	8420.7	8672.6	9457.3	9664.7	10828.6	10244.7	8698.9	9454.7
62.5°	9131.9	9143.7	9192.3	9579.4	10526.8	10722.3	11857.4	10824.7	8817.0	9372.0
65°	9080.7	9130.6	9672.5	10996.6	12152.7	12345.6	13058.1	11231.5	8638.5	8616.2
67.5°	8272.4	8353.7	9260.5	12689.4	14603.9	14819.1	14509.5	11311.5	7868.2	6700.3
70°	7212.1	7241.0	8331.4	14211.6	17442.3	17660.2	15808.6	10431.0	5970.7	3737.3
72.5°	5632.1	5638.7	6918.1	14564.6	18982.9	18994.7	14789.0	7743.5	3211.1	1435.6
75°	4023.3	3984.0	4633.5	11811.5	16700.9	16834.8	11087.1	3632.3	1226.9	678.4
77.5°	2157.3	2200.6	2621.9	7004.7	11537.2	11765.6	6049.4	1047.2	624.6	461.9
80°	666.6	703.4	1074.7	3207.1	6535.0	6672.8	2242.6	465.8	435.7	329.4
82.5°	210.0	217.8	501.3	1347.7	2712.4	2775.4	649.6	263.8	297.9	217.8
85°	60.4	61.7	223.1	502.6	670.6	683.7	182.4	102.4	170.6	135.2
87.5°	6.6	21.0	84.0	84.0	59.1	57.7	19.7	22.3	48.6	17.1
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°
2595.6	0°	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6
2607.4	2.5°	2600.9	2602.2	2585.1	2556.2	2524.8	2498.5	2465.7	2439.5	2421.1	2415.8
2631.0	5°	2619.2	2610.0	2561.5	2473.6	2368.6	2278.1	2177.0	2097.0	2044.5	2022.2
2656.0	7.5°	2646.8	2620.5	2514.3	2341.0	2140.3	1961.8	1780.7	1640.3	1551.1	1506.5
2679.6	10°	2670.4	2617.9	2435.5	2149.5	1842.4	1572.1	1328.0	1158.7	1064.2	1019.6
2707.2	12.5°	2692.7	2616.6	2333.2	1922.4	1506.5	1175.8	948.8	864.8	838.5	829.3
2751.8	15°	2734.7	2620.5	2204.6	1662.6	1171.8	888.4	805.7	804.4	809.7	807.0
2820.0	17.5°	2792.5	2624.5	2058.9	1387.0	904.1	783.4	779.5	791.3	799.2	795.2
2905.3	20°	2867.2	2640.2	1904.1	1114.1	776.8	757.2	766.3	776.8	783.4	776.8
3019.5	22.5°	2972.2	2667.8	1734.8	894.9	736.2	741.4	749.3	761.1	767.7	758.5
3165.1	25°	3100.8	2711.1	1568.1	778.2	716.5	723.0	734.9	748.0	755.9	746.7
3348.8	27.5°	3267.5	2780.6	1414.6	751.9	696.8	700.7	717.8	737.5	748.0	736.2
3610.0	30°	3508.9	2894.8	1282.1	763.7	685.0	675.8	699.4	727.0	738.8	728.3
3965.6	32.5°	3829.1	3056.2	1200.7	782.1	679.7	646.9	669.2	704.7	724.4	717.8
4430.1	35°	4249.0	3301.6	1169.2	803.1	675.8	616.8	632.5	670.6	704.7	711.2
5015.4	37.5°	4758.2	3642.8	1178.4	812.3	664.0	591.8	599.7	632.5	677.1	698.1
5674.1	40°	5336.9	4040.4	1230.9	803.1	650.9	570.8	572.1	597.1	636.4	667.9
6382.7	42.5°	5934.0	4504.9	1328.0	769.0	639.1	552.5	548.5	565.6	591.8	614.1
7090.0	45°	6502.2	4982.6	1423.8	721.7	624.6	534.1	524.9	531.5	536.7	545.9
7779.0	47.5°	6998.2	5318.5	1396.2	678.4	604.9	513.1	497.3	494.7	479.0	477.7
8394.4	50°	7340.7	5392.0	1240.1	635.1	576.1	489.5	464.5	448.8	421.2	408.1
8855.0	52.5°	7449.6	5102.0	1013.1	591.8	528.8	458.0	422.5	397.6	363.5	351.7
9120.1	55°	7305.3	4533.8	809.7	539.3	463.2	416.0	376.6	343.8	316.3	301.8
9149.0	57.5°	6952.3	3810.8	640.4	477.7	393.7	368.7	329.4	296.6	272.9	258.5
8828.8	60°	6367.0	3026.0	506.5	404.2	335.9	317.6	276.9	255.9	234.9	217.8
8002.1	62.5°	5478.6	2160.0	397.6	320.2	280.8	259.8	236.2	220.5	195.5	171.9
6515.3	65°	4275.3	1321.4	307.1	234.9	225.7	215.2	200.8	186.3	156.2	132.5
4250.4	67.5°	2696.7	625.9	219.1	177.2	178.5	173.2	166.7	154.8	132.5	111.5
1904.1	70°	1187.6	303.1	144.3	135.2	132.5	132.5	137.8	133.8	112.9	93.2
661.4	72.5°	404.2	162.7	107.6	102.4	95.8	94.5	115.5	111.5	90.5	72.2
329.4	75°	211.3	108.9	78.7	73.5	57.7	69.5	91.9	86.6	64.3	47.2
217.8	77.5°	137.8	77.4	53.8	47.2	32.8	45.9	68.2	60.4	38.1	23.6
143.0	80°	86.6	51.2	31.5	22.3	15.7	24.9	36.7	26.2	14.4	5.2
84.0	82.5°	45.9	26.2	11.8	7.9	6.6	7.9	9.2	6.6	2.6	0.0
43.3	85°	18.4	9.2	3.9	2.6	1.3	0.0	2.6	1.3	0.0	0.0
7.9	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>
2595.6
2425.0
2030.0
1513.0
1020.9
826.7
805.7
793.9
775.5
757.2
745.4
736.2
727.0
717.8
711.2
703.4
678.4
623.3
551.1
476.3
409.4
350.4
301.8
255.9
213.9
168.0
128.6
108.9
89.2
68.2
43.3
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3.9
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