

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: P950078

Luminaire Tested: **GALN-SB4C-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

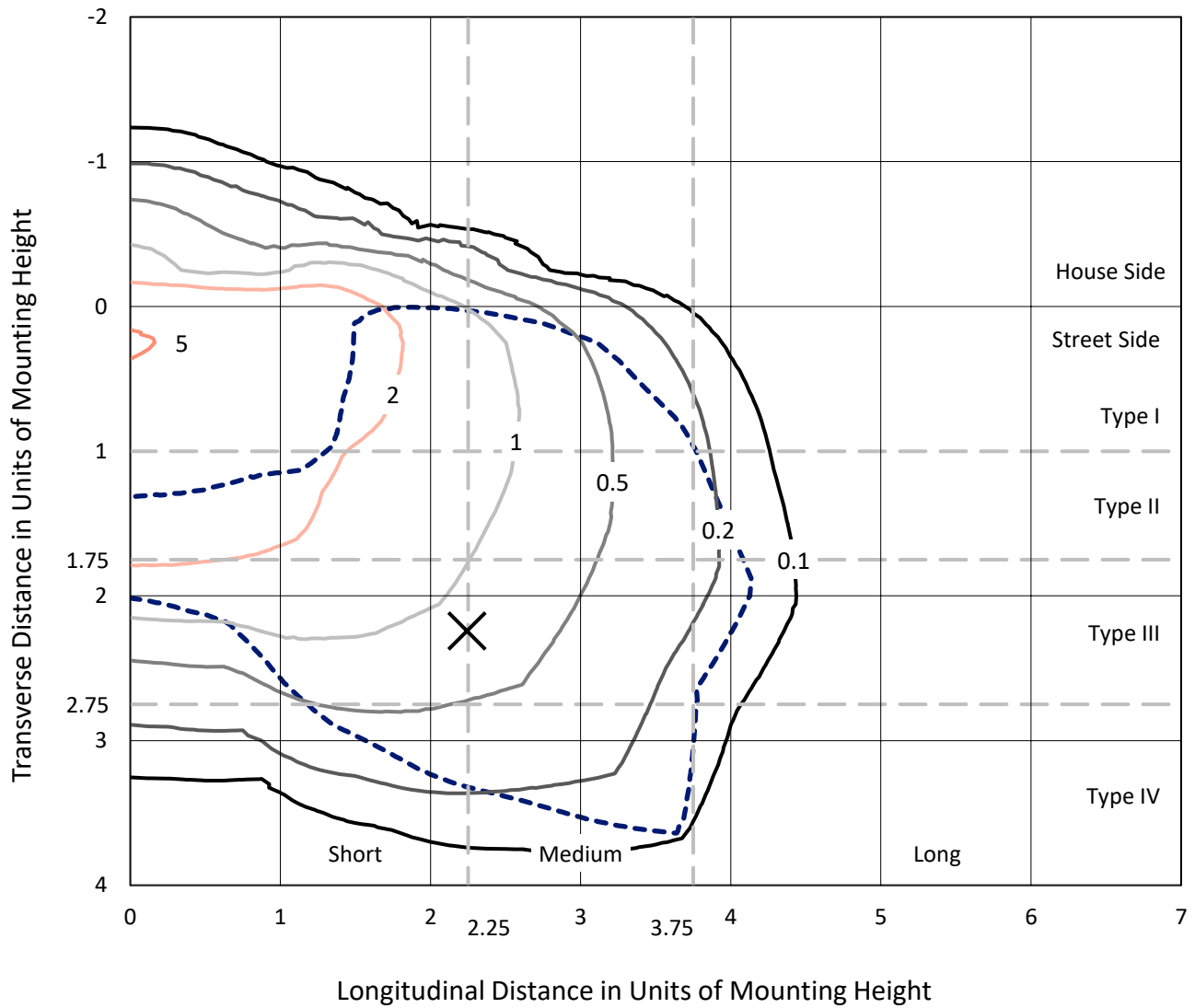
Lumens per Lamp: N/A  
Luminaire Lumens: 22115 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

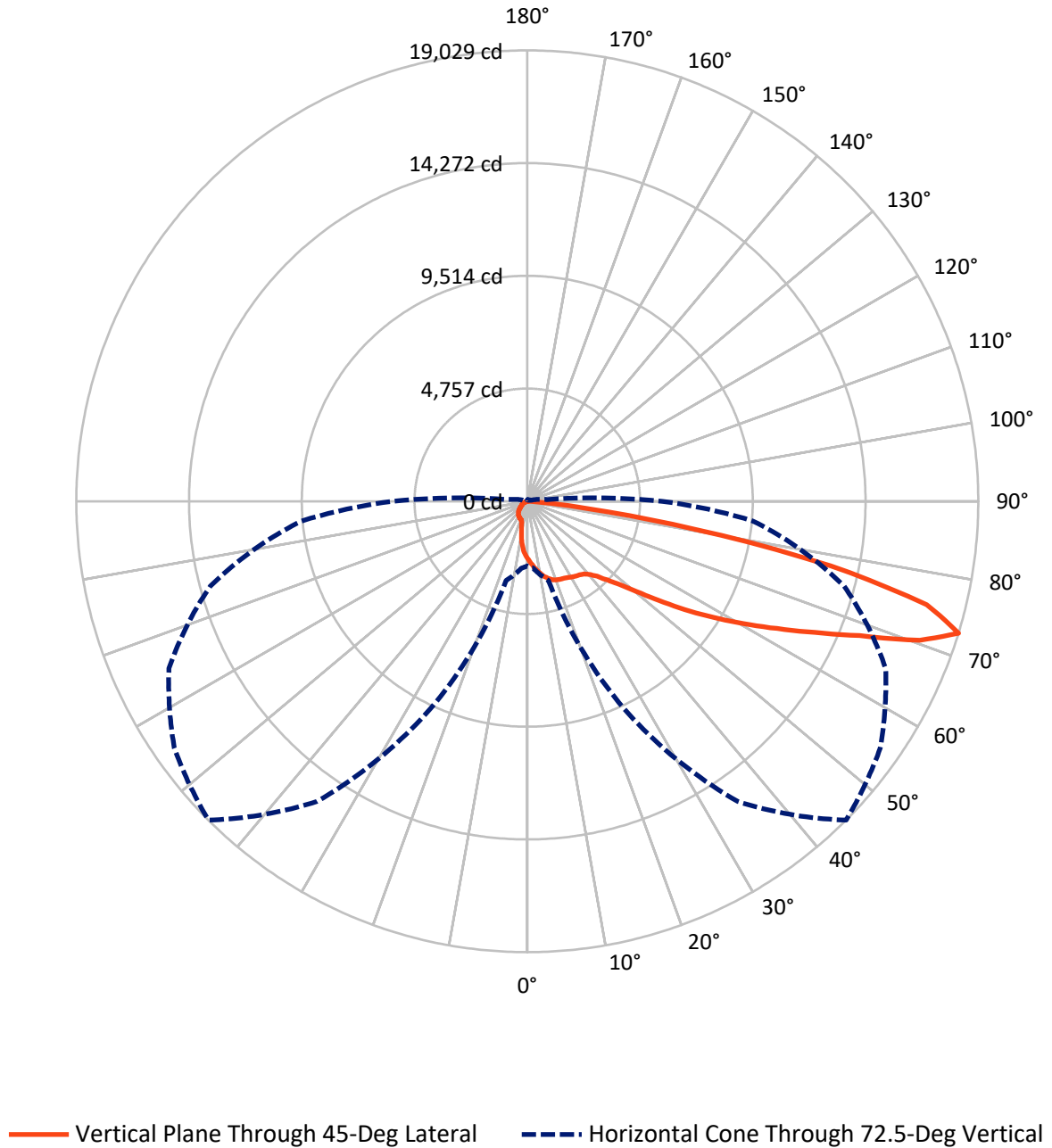
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2323.7	0.0	2323.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	19791.3	0.0	19791.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	22115.0	0.0	22115.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.3	1.0
10°-20°	667.1	3.0
20°-30°	1095.6	5.0
30°-40°	1553.7	7.0
40°-50°	2568.2	11.6
50°-60°	4613.4	20.9
60°-70°	6406.0	29.0
70°-80°	4646.7	21.0
80°-90°	335.9	1.5
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°	22115.0	100.0
0°-180°	22115.0	100.0



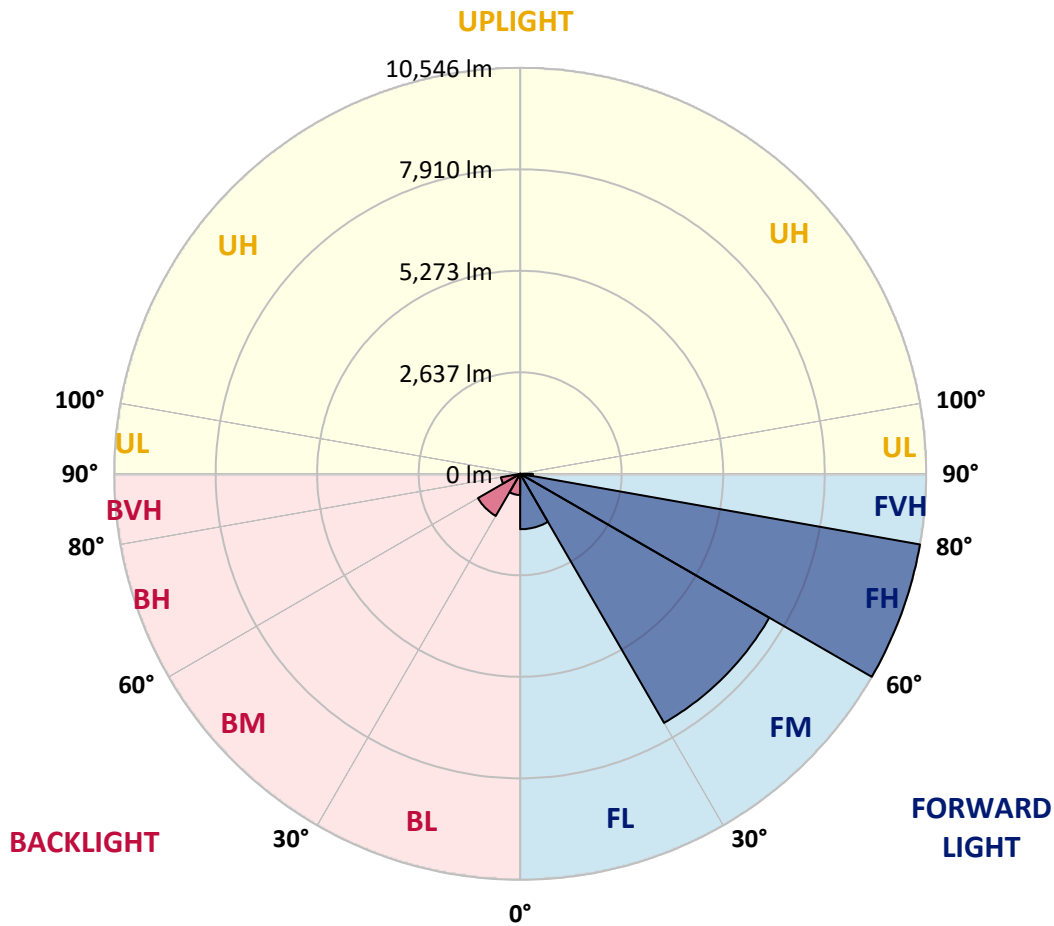
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.6	6.5			
FM (30°-60°)	7471.6	33.8			
FH (60°-80°)	10546.0	47.7			G4/12000
FVH (80°-90°)	333.1	1.5			G3/500
BL (0°-30°)	550.4	2.5	B2/1000		
BM (30°-60°)	1263.7	5.7	B2/2500		
BH (60°-80°)	506.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	35°	45°	46°	55°	65°	75°
0°	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7
2.5°	2646.2	2650.7	2647.7	2629.5	2599.4	2582.8	2573.7	2543.5	2523.9	2489.2
5°	2889.2	2907.3	2896.7	2860.5	2803.1	2762.4	2750.3	2688.4	2632.6	2567.7
7.5°	3147.3	3156.4	3136.7	3089.9	3013.0	2943.5	2933.0	2846.9	2757.9	2658.2
10°	3370.7	3381.3	3351.1	3283.2	3195.6	3109.6	3094.5	2999.4	2893.7	2771.4
12.5°	3557.9	3568.5	3529.2	3447.7	3351.1	3262.0	3246.9	3147.3	3031.1	2895.2
15°	3699.8	3719.4	3666.6	3579.0	3474.9	3385.8	3378.3	3280.1	3166.9	3016.0
17.5°	3782.8	3802.4	3752.6	3646.9	3557.9	3482.4	3473.4	3391.8	3286.2	3141.3
20°	3796.4	3814.5	3761.7	3669.6	3595.6	3535.2	3530.7	3471.8	3394.9	3256.0
22.5°	3755.6	3778.3	3730.0	3656.0	3604.7	3573.0	3566.9	3533.7	3490.0	3372.2
25°	3713.4	3731.5	3695.3	3630.3	3603.2	3600.2	3604.7	3598.6	3589.6	3490.0
27.5°	3710.3	3730.0	3689.2	3627.3	3612.2	3643.9	3648.5	3677.1	3684.7	3597.1
30°	3736.0	3749.6	3710.3	3645.4	3637.9	3710.3	3711.9	3763.2	3775.3	3687.7
32.5°	3791.9	3807.0	3767.7	3672.6	3662.0	3763.2	3767.7	3835.6	3855.3	3784.3
35°	3923.2	3941.3	3896.0	3748.1	3710.3	3813.0	3826.6	3906.6	3945.8	3887.0
37.5°	4250.7	4197.9	4136.0	3900.5	3820.5	3891.5	3914.1	4007.7	4077.2	4009.2
40°	5064.4	4898.3	4705.1	4160.2	4013.8	4059.0	4077.2	4170.7	4265.8	4199.4
42.5°	6285.6	6089.3	5778.4	4757.9	4305.1	4327.7	4341.3	4422.8	4557.2	4504.3
45°	7373.9	7303.0	6986.0	5778.4	4850.0	4738.3	4754.9	4797.2	4994.9	4975.3
47.5°	8210.2	8169.4	7924.9	6949.7	5770.8	5241.0	5287.8	5307.4	5592.7	5662.1
50°	8853.2	8838.1	8619.2	7991.3	6973.9	5982.1	5998.7	5956.5	6383.7	6555.8
52.5°	9460.0	9511.4	9349.8	8958.9	8258.5	6952.8	6949.7	6750.5	7327.1	7586.7
55°	10008.0	10026.1	10042.7	9946.1	9550.6	8057.7	8029.0	7703.0	8421.5	8690.2
57.5°	10522.7	10530.3	10678.2	10875.9	10895.6	9244.2	9191.3	8800.4	9617.0	9808.7
60°	10868.4	10903.1	11215.6	11765.0	12005.0	10468.4	10439.7	10041.2	10833.7	10922.7
62.5°	10370.3	10581.6	11369.5	12459.4	13052.6	11825.4	11811.8	11437.5	12113.7	12041.3
65°	8394.3	8752.1	10137.8	12928.9	14080.6	13340.9	13360.6	12962.1	13428.5	13193.0
67.5°	5871.9	6249.3	7888.6	12966.6	15229.3	15120.6	15233.9	14608.9	14824.8	14296.5
70°	4060.6	4255.3	5322.5	12154.5	16124.5	17572.1	17569.1	16631.7	16213.5	14799.1
72.5°	2730.7	2831.8	3456.8	9642.7	15466.3	19028.7	18941.2	18177.4	16681.5	13840.6
75°	1151.7	1225.7	1600.1	5419.1	12236.0	17409.0	17172.1	16064.1	14821.8	10898.6
77.5°	365.3	397.0	631.0	1939.7	6739.9	13085.8	12835.3	10032.1	9934.0	5467.4
80°	173.6	202.3	354.7	778.9	2652.2	7117.3	7082.6	4551.1	4273.4	1476.3
82.5°	75.5	89.1	196.2	416.6	1186.5	2539.0	2590.3	1548.7	1281.6	560.0
85°	24.2	31.7	90.6	191.7	501.2	631.0	623.4	368.3	516.2	304.9
87.5°	0.0	0.0	30.2	43.8	51.3	36.2	40.8	31.7	143.4	84.5
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°
2422.7	0°	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7
2452.9	2.5°	2434.8	2410.7	2368.4	2329.2	2294.4	2259.7	2238.6	2208.4	2205.4	2205.4
2492.2	5°	2451.4	2412.2	2336.7	2256.7	2164.6	2077.1	1989.5	1905.0	1877.8	1858.2
2555.6	7.5°	2499.7	2437.8	2318.6	2166.1	1991.0	1799.3	1665.0	1520.1	1464.2	1434.0
2640.1	10°	2569.2	2484.6	2303.5	2036.3	1752.5	1491.4	1299.7	1142.7	1082.3	1056.6
2732.2	12.5°	2646.2	2542.0	2276.3	1874.8	1491.4	1178.9	991.7	919.3	910.2	910.2
2842.4	15°	2738.2	2611.4	2229.5	1684.6	1218.2	932.9	866.5	869.5	878.5	884.6
2949.6	17.5°	2833.3	2685.4	2155.6	1471.8	976.6	839.3	840.8	845.3	852.9	858.9
3065.8	20°	2936.0	2759.4	2057.4	1245.3	837.8	812.1	816.6	821.2	827.2	830.2
3174.5	22.5°	3046.2	2828.8	1941.2	1023.4	791.0	789.5	791.0	795.5	803.1	803.1
3301.3	25°	3163.9	2905.8	1808.4	861.9	766.8	766.8	769.8	772.9	778.9	778.9
3423.5	27.5°	3284.7	2976.7	1668.0	777.4	745.7	744.2	744.2	748.7	751.7	753.2
3544.3	30°	3417.5	3059.8	1527.6	759.3	729.1	721.5	717.0	720.0	723.0	724.6
3671.1	32.5°	3553.4	3139.8	1402.3	766.8	712.5	698.9	683.8	680.8	680.8	686.8
3802.4	35°	3704.3	3227.3	1305.7	792.5	703.4	665.7	641.5	628.0	629.5	638.5
3959.4	37.5°	3885.4	3333.0	1234.8	815.1	697.4	628.0	588.7	572.1	561.5	572.1
4175.3	40°	4122.4	3488.5	1183.4	833.2	689.8	584.2	531.3	504.2	484.5	490.6
4510.4	42.5°	4471.1	3733.0	1163.8	834.8	673.2	532.9	472.5	436.2	407.6	409.1
5014.6	45°	4960.2	4119.4	1265.0	815.1	637.0	477.0	410.6	362.3	344.2	339.6
5767.8	47.5°	5630.4	4682.5	1498.9	774.4	584.2	422.7	350.2	309.4	295.9	288.3
6756.5	50°	6528.6	5405.5	1758.6	729.1	531.3	371.3	300.4	274.7	265.7	258.1
7929.4	52.5°	7570.1	6139.1	1971.4	683.8	478.5	326.1	268.7	253.6	246.0	240.0
9061.5	55°	8525.6	6644.8	1959.3	635.5	427.2	289.8	246.0	237.0	227.9	221.9
10036.7	57.5°	9120.4	6715.8	1615.2	582.7	368.3	261.1	224.9	218.9	208.3	200.8
10880.5	60°	9393.6	6311.2	1132.1	513.2	309.4	234.0	202.3	199.3	185.7	175.1
11679.0	62.5°	9443.4	5559.5	754.7	427.2	258.1	208.3	179.6	175.1	157.0	138.9
12328.1	65°	9241.2	4484.7	522.3	333.6	220.4	181.1	154.0	144.9	125.3	107.2
12482.0	67.5°	8601.1	3148.8	363.8	240.0	187.2	143.4	122.3	119.3	104.2	89.1
11697.1	70°	7428.2	1794.8	243.0	179.6	147.9	98.1	96.6	99.6	84.5	72.5
9556.6	72.5°	5695.3	821.2	150.9	131.3	101.1	66.4	77.0	78.5	64.9	54.3
5962.5	75°	3352.6	351.7	95.1	84.5	51.3	43.8	55.9	57.4	43.8	34.7
2179.7	77.5°	1141.2	132.8	60.4	49.8	25.7	24.2	36.2	36.2	24.2	13.6
437.8	80°	259.6	49.8	30.2	19.6	12.1	10.6	12.1	10.6	6.0	1.5
134.3	82.5°	74.0	19.6	12.1	7.5	4.5	4.5	1.5	0.0	0.0	0.0
46.8	85°	21.1	9.1	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
16.6	87.5°	9.1	1.5	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>
2422.7
2212.9
1867.2
1438.6
1056.6
910.2
884.6
858.9
831.7
806.1
780.4
754.7
727.6
691.4
643.0
569.1
487.6
403.0
333.6
283.8
256.6
238.5
218.9
199.3
172.1
129.8
101.1
84.5
66.4
48.3
30.2
10.6
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