

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: P950015

Luminaire Tested: **GALN-SB4C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950015
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-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 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: 20774 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

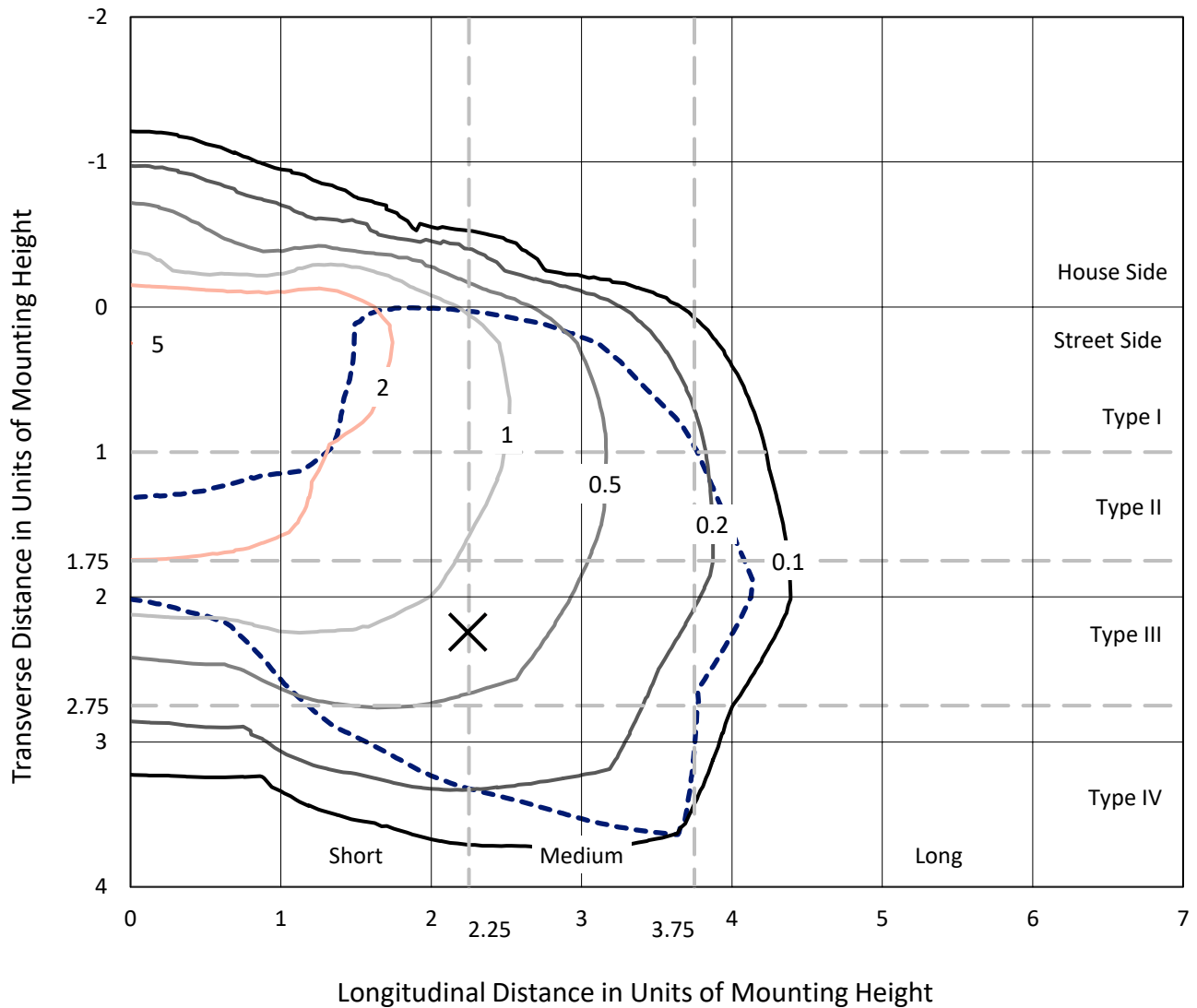
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

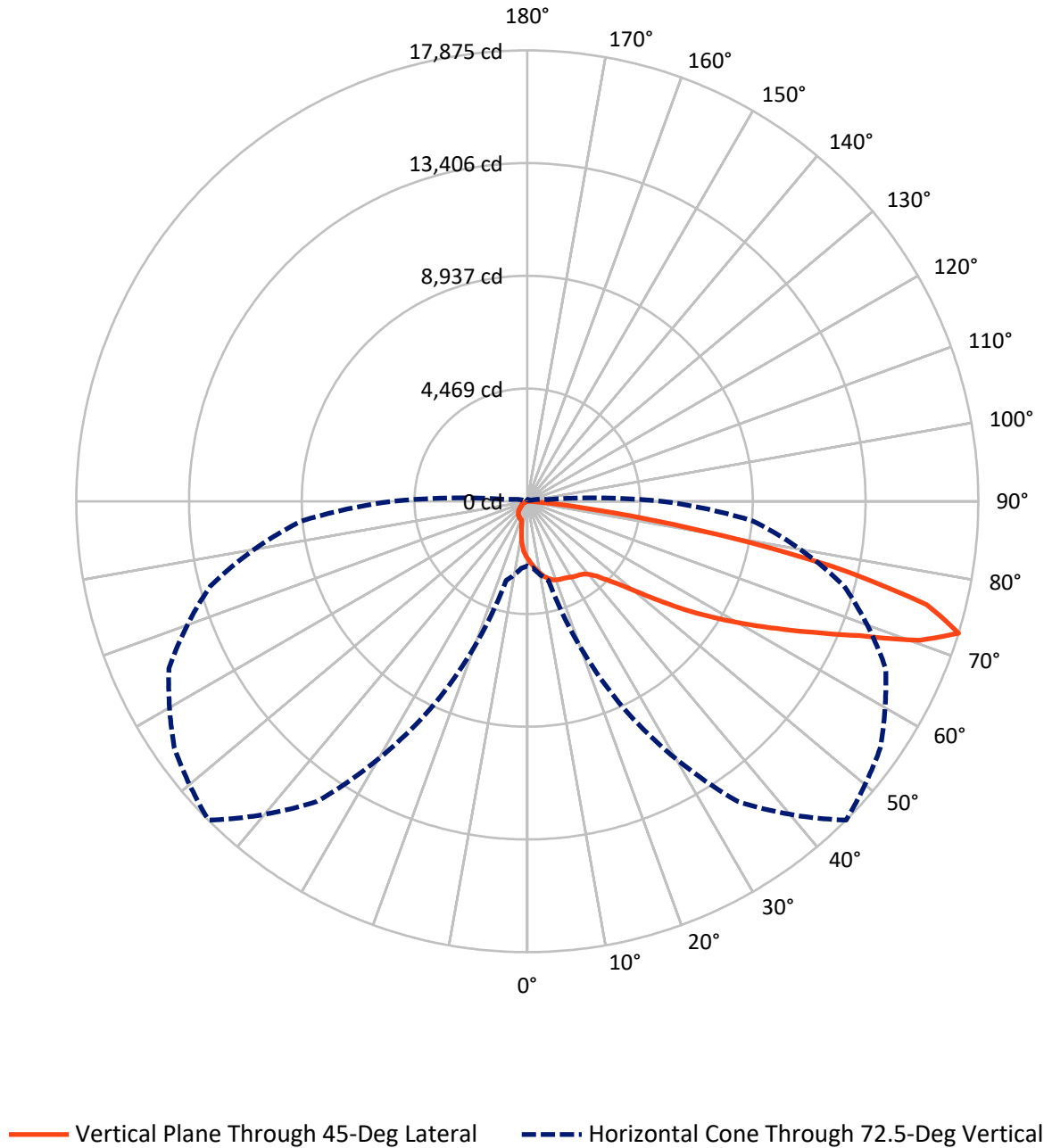
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2182.8	0.0	2182.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18591.2	0.0	18591.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	20774.0	0.0	20774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.0
10°-20°	626.7	3.0
20°-30°	1029.1	5.0
30°-40°	1459.5	7.0
40°-50°	2412.5	11.6
50°-60°	4333.7	20.9
60°-70°	6017.6	29.0
70°-80°	4365.0	21.0
80°-90°	315.6	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°	20774.0	100.0
0°-180°	20774.0	100.0

Coefficient of Utilization



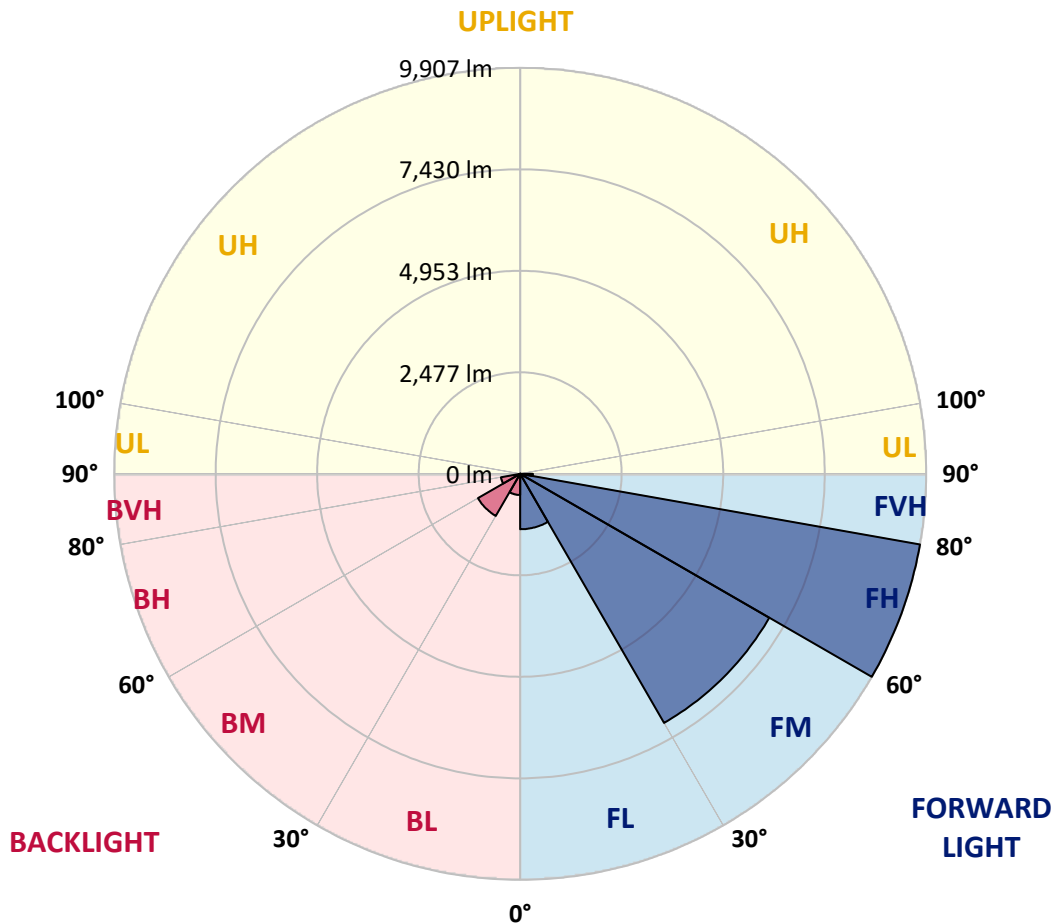
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.2	6.5			
FM (30°-60°)	7018.6	33.8			
FH (60°-80°)	9906.5	47.7			G4/12000
FVH (80°-90°)	312.9	1.5			G3/500
BL (0°-30°)	517.0	2.5	B2/1000		
BM (30°-60°)	1187.1	5.7	B2/2500		
BH (60°-80°)	476.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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°	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8
2.5°	2485.7	2489.9	2487.1	2470.1	2441.7	2426.1	2417.6	2389.3	2370.8	2338.2
5°	2714.0	2731.0	2721.1	2687.0	2633.2	2594.9	2583.5	2525.4	2472.9	2412.0
7.5°	2956.5	2965.0	2946.5	2902.6	2830.3	2765.0	2755.1	2674.3	2590.6	2497.0
10°	3166.3	3176.2	3147.9	3084.1	3001.8	2921.0	2906.8	2817.5	2718.2	2603.4
12.5°	3342.1	3352.1	3315.2	3238.6	3147.9	3064.2	3050.0	2956.5	2847.3	2719.7
15°	3475.4	3493.9	3444.2	3362.0	3264.2	3180.5	3173.4	3081.2	2974.9	2833.1
17.5°	3553.4	3571.9	3525.1	3425.8	3342.1	3271.2	3262.7	3186.2	3086.9	2950.8
20°	3566.2	3583.2	3533.6	3447.1	3377.6	3320.9	3316.6	3261.3	3189.0	3058.6
22.5°	3527.9	3549.2	3503.8	3434.3	3386.1	3356.3	3350.7	3319.5	3278.3	3167.7
25°	3488.2	3505.2	3471.2	3410.2	3384.7	3381.8	3386.1	3380.4	3371.9	3278.3
27.5°	3485.4	3503.8	3465.5	3407.4	3393.2	3423.0	3427.2	3454.2	3461.3	3379.0
30°	3509.5	3522.2	3485.4	3424.4	3417.3	3485.4	3486.8	3535.0	3546.3	3464.1
32.5°	3561.9	3576.1	3539.2	3449.9	3440.0	3535.0	3539.2	3603.1	3621.5	3554.8
35°	3685.3	3702.3	3659.8	3520.8	3485.4	3581.8	3594.5	3669.7	3706.6	3651.3
37.5°	3993.0	3943.4	3885.2	3664.0	3588.9	3655.5	3676.8	3764.7	3829.9	3766.1
40°	4757.3	4601.3	4419.8	3907.9	3770.4	3812.9	3829.9	3917.8	4007.2	3944.8
42.5°	5904.4	5720.1	5428.0	4469.4	4044.0	4065.3	4078.1	4154.6	4280.8	4231.2
45°	6926.8	6860.1	6562.3	5428.0	4555.9	4451.0	4466.6	4506.3	4692.1	4673.6
47.5°	7712.3	7674.0	7444.3	6528.3	5420.9	4923.2	4967.1	4985.6	5253.6	5318.8
50°	8316.4	8302.2	8096.6	7506.7	6551.0	5619.4	5635.0	5595.3	5996.6	6158.2
52.5°	8886.4	8934.6	8782.9	8415.6	7757.7	6531.2	6528.3	6341.1	6882.8	7126.7
55°	9401.1	9418.1	9433.7	9343.0	8971.5	7569.1	7542.2	7235.9	7910.8	8163.2
57.5°	9884.6	9891.7	10030.7	10216.4	10234.9	8683.6	8634.0	8266.7	9033.9	9213.9
60°	10209.4	10242.0	10535.5	11051.6	11277.1	9833.6	9806.7	9432.3	10176.7	10260.4
62.5°	9741.4	9939.9	10680.1	11703.9	12261.2	11108.3	11095.6	10743.9	11379.2	11311.1
65°	7885.3	8221.4	9523.1	12144.9	13226.8	12532.0	12550.4	12176.1	12614.2	12393.0
67.5°	5515.9	5870.4	7410.3	12180.3	14305.9	14203.8	14310.1	13723.1	13925.8	13429.6
70°	3814.3	3997.2	4999.7	11417.5	15146.7	16506.5	16503.7	15623.2	15230.4	13901.7
72.5°	2565.1	2660.1	3247.1	9058.0	14528.5	17874.9	17792.6	17075.2	15669.9	13001.3
75°	1081.9	1151.4	1503.0	5090.5	11494.0	16353.4	16130.8	15090.0	13923.0	10237.7
77.5°	343.1	372.9	592.7	1822.1	6331.2	12292.3	12057.0	9423.8	9331.6	5135.9
80°	163.1	190.0	333.2	731.7	2491.4	6685.7	6653.1	4275.2	4014.3	1386.8
82.5°	70.9	83.7	184.3	391.4	1114.5	2385.0	2433.2	1454.8	1203.9	526.1
85°	22.7	29.8	85.1	180.1	470.8	592.7	585.6	346.0	484.9	286.4
87.5°	0.0	0.0	28.4	41.1	48.2	34.0	38.3	29.8	134.7	79.4
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°
2275.8	0°	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8
2304.2	2.5°	2287.2	2264.5	2224.8	2187.9	2155.3	2122.7	2102.8	2074.5	2071.6	2071.6
2341.1	5°	2302.8	2265.9	2195.0	2119.9	2033.4	1951.1	1868.9	1789.5	1764.0	1745.5
2400.6	7.5°	2348.2	2290.0	2178.0	2034.8	1870.3	1690.2	1564.0	1427.9	1375.4	1347.1
2480.0	10°	2413.4	2334.0	2163.8	1912.8	1646.3	1401.0	1220.9	1073.4	1016.7	992.6
2566.5	12.5°	2485.7	2387.9	2138.3	1761.1	1401.0	1107.4	931.6	863.5	855.0	855.0
2670.0	15°	2572.2	2453.1	2094.3	1582.5	1144.3	876.3	813.9	816.7	825.3	830.9
2770.7	17.5°	2661.5	2522.6	2024.9	1382.5	917.4	788.4	789.8	794.1	801.2	806.8
2879.9	20°	2757.9	2592.0	1932.7	1169.8	787.0	762.9	767.1	771.4	777.0	779.9
2982.0	22.5°	2861.5	2657.3	1823.5	961.4	743.0	741.6	743.0	747.3	754.4	754.4
3101.1	25°	2972.1	2729.6	1698.7	809.7	720.3	720.3	723.2	726.0	731.7	731.7
3215.9	27.5°	3085.5	2796.2	1566.9	730.3	700.5	699.1	699.1	703.3	706.1	707.6
3329.4	30°	3210.3	2874.2	1435.0	713.2	684.9	677.8	673.5	676.4	679.2	680.6
3448.5	32.5°	3337.9	2949.4	1317.3	720.3	669.3	656.5	642.3	639.5	639.5	645.2
3571.9	35°	3479.7	3031.6	1226.5	744.4	660.8	625.3	602.6	589.9	591.3	599.8
3719.3	37.5°	3649.8	3130.9	1159.9	765.7	655.1	589.9	553.0	537.4	527.5	537.4
3922.1	40°	3872.5	3276.9	1111.7	782.7	648.0	548.8	499.1	473.6	455.2	460.8
4236.9	42.5°	4200.0	3506.6	1093.3	784.1	632.4	500.5	443.8	409.8	382.9	384.3
4710.5	45°	4659.4	3869.6	1188.3	765.7	598.4	448.1	385.7	340.3	323.3	319.0
5418.0	47.5°	5289.0	4398.5	1408.0	727.4	548.8	397.0	329.0	290.7	277.9	270.8
6346.8	50°	6132.7	5077.7	1651.9	684.9	499.1	348.8	282.2	258.1	249.6	242.5
7448.6	52.5°	7111.1	5766.9	1851.9	642.3	449.5	306.3	252.4	238.2	231.1	225.5
8512.1	55°	8008.7	6241.9	1840.5	597.0	401.3	272.2	231.1	222.6	214.1	208.4
9428.1	57.5°	8567.4	6308.5	1517.2	547.3	346.0	245.3	211.3	205.6	195.7	188.6
10220.7	60°	8824.0	5928.5	1063.5	482.1	290.7	219.8	190.0	187.2	174.4	164.5
10970.8	62.5°	8870.8	5222.4	709.0	401.3	242.5	195.7	168.7	164.5	147.5	130.5
11580.5	65°	8680.8	4212.8	490.6	313.4	207.0	170.2	144.6	136.1	117.7	100.7
11725.2	67.5°	8079.6	2957.9	341.7	225.5	175.8	134.7	114.9	112.0	97.8	83.7
10987.8	70°	6977.8	1686.0	228.3	168.7	139.0	92.2	90.7	93.6	79.4	68.1
8977.1	72.5°	5350.0	771.4	141.8	123.4	95.0	62.4	72.3	73.7	61.0	51.0
5601.0	75°	3149.3	330.4	89.3	79.4	48.2	41.1	52.5	53.9	41.1	32.6
2047.5	77.5°	1072.0	124.8	56.7	46.8	24.1	22.7	34.0	34.0	22.7	12.8
411.2	80°	243.9	46.8	28.4	18.4	11.3	9.9	11.3	9.9	5.7	1.4
126.2	82.5°	69.5	18.4	11.3	7.1	4.3	4.3	1.4	0.0	0.0	0.0
44.0	85°	19.9	8.5	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
15.6	87.5°	8.5	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>
2275.8
2078.7
1754.0
1351.3
992.6
855.0
830.9
806.8
781.3
757.2
733.1
709.0
683.5
649.4
604.1
534.6
458.0
378.6
313.4
266.6
241.1
224.0
205.6
187.2
161.6
121.9
95.0
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62.4
45.4
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