

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: P954299

Luminaire Tested: **GALN-SB7C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954299
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-SB7C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 36864 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

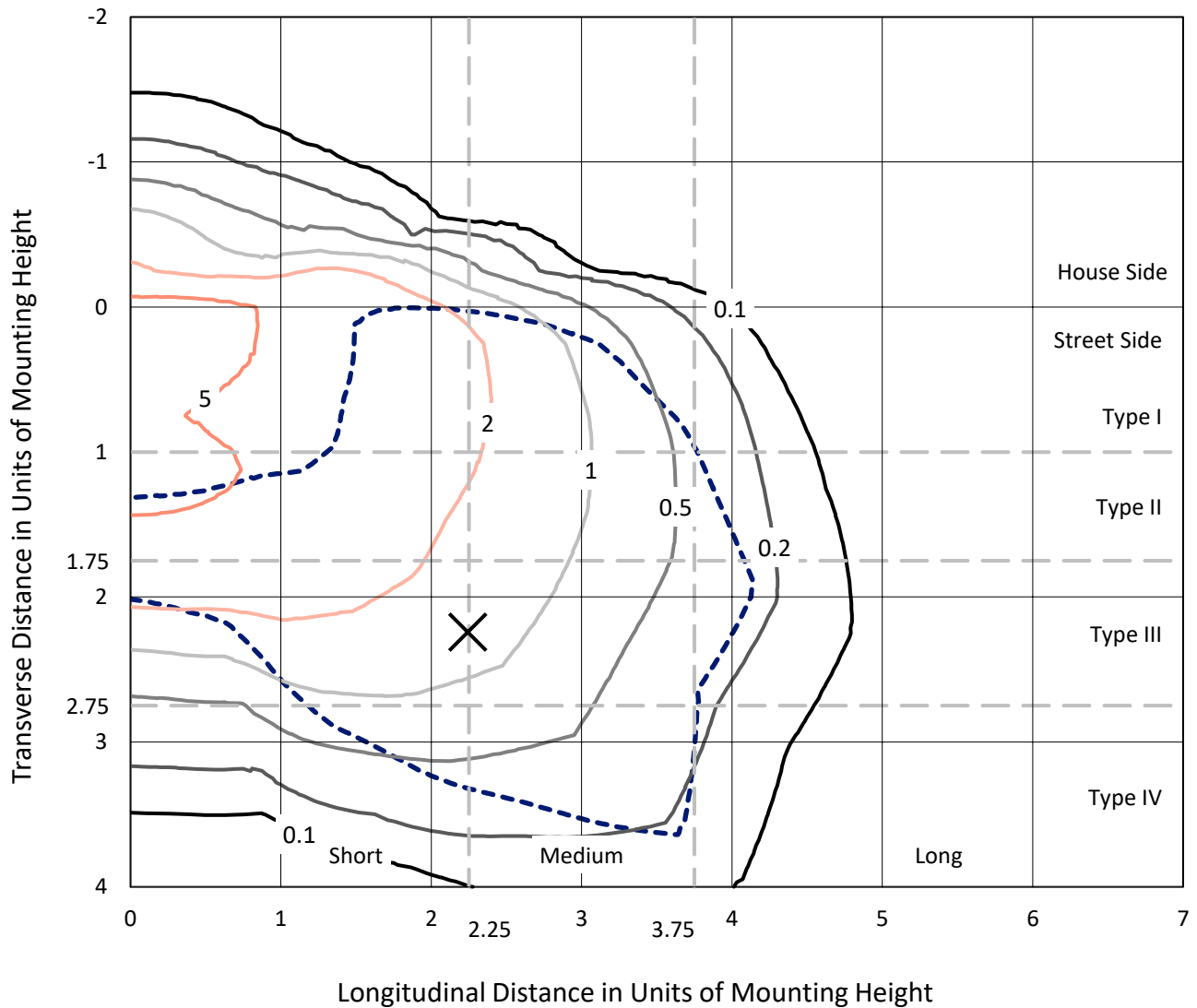
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954299
 CATALOG NUMBER: GALN-SB7C-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

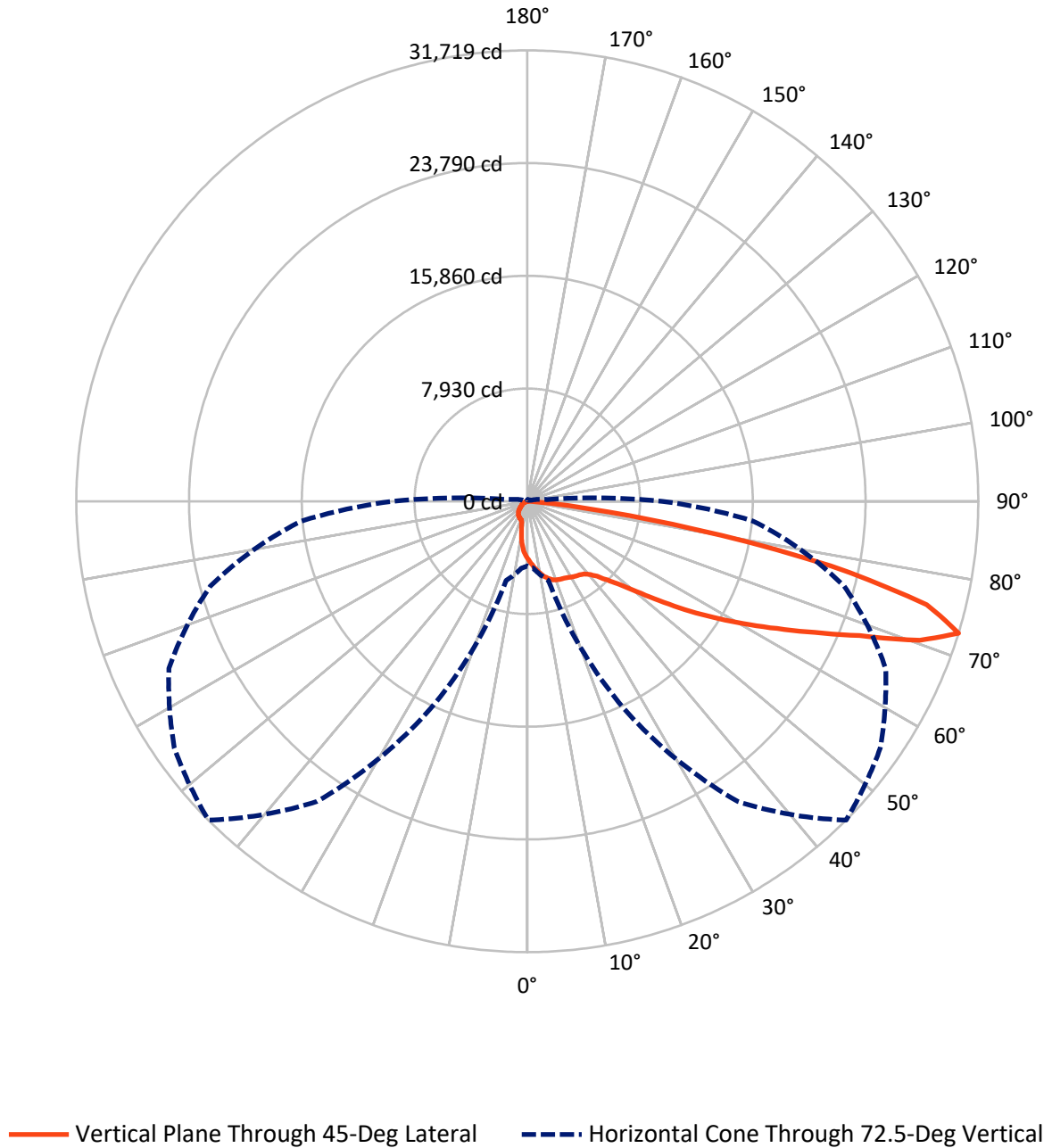
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P954299
CATALOG NUMBER: GALN-SB7C-830-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3873.4	0.0	3873.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32990.6	0.0	32990.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	36864.0	0.0	36864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.5	1.0
10°-20°	1112.1	3.0
20°-30°	1826.2	5.0
30°-40°	2590.0	7.0
40°-50°	4281.0	11.6
50°-60°	7690.3	20.9
60°-70°	10678.3	29.0
70°-80°	7745.7	21.0
80°-90°	560.0	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°	36864.0	100.0
0°-180°	36864.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954299

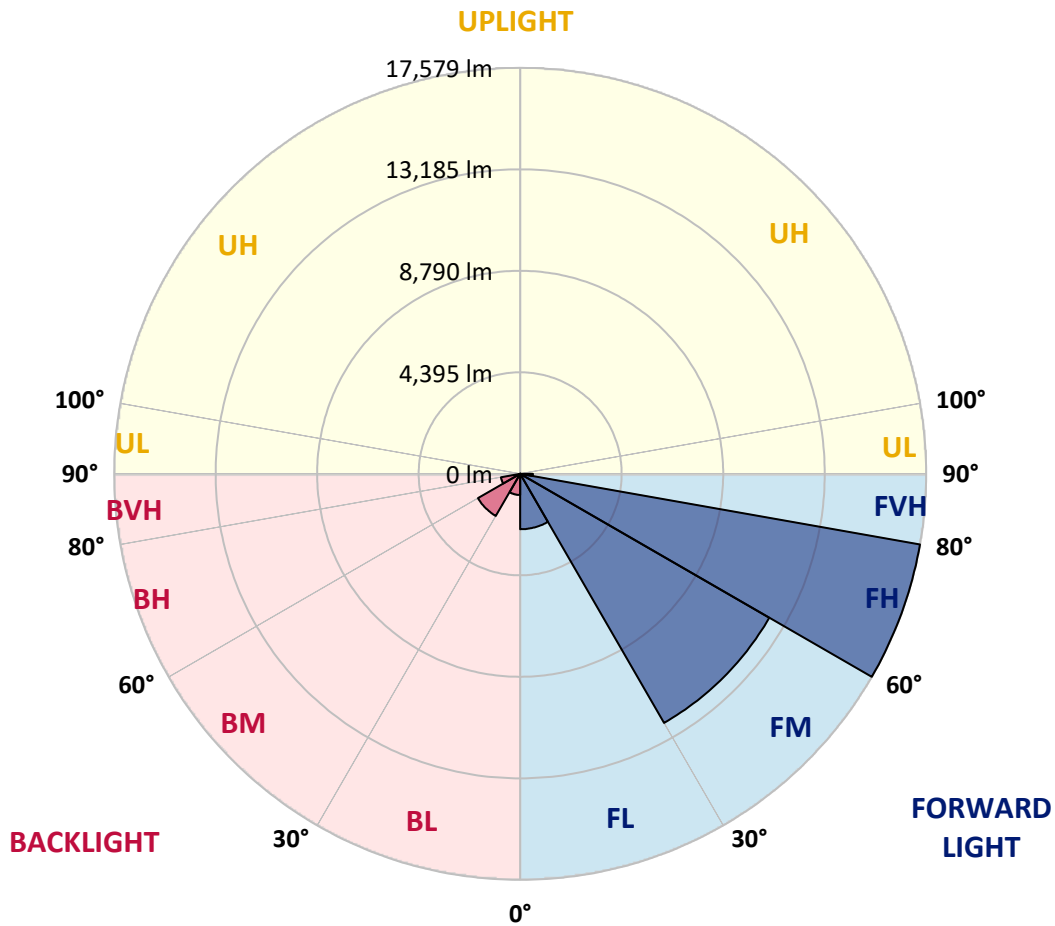
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.3	6.5			
FM (30°-60°)	12454.6	33.8			
FH (60°-80°)	17579.4	47.7			G5
FVH (80°-90°)	555.3	1.5			G4/750
BL (0°-30°)	917.5	2.5	B2/1000		
BM (30°-60°)	2106.6	5.7	B2/2500		
BH (60°-80°)	844.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.7	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-G5

Type IV Short



REPORT NUMBER: P954299

CATALOG NUMBER: GALN-SB7C-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5
2.5°	4410.9	4418.5	4413.4	4383.3	4332.9	4305.2	4290.2	4239.8	4207.1	4149.2
5°	4816.0	4846.2	4828.6	4768.2	4672.6	4604.7	4584.5	4481.4	4388.3	4280.1
7.5°	5246.3	5261.4	5228.7	5150.7	5022.4	4906.6	4889.0	4745.6	4597.1	4431.1
10°	5618.7	5636.3	5586.0	5472.8	5326.8	5183.4	5158.2	4999.7	4823.6	4619.8
12.5°	5930.7	5948.3	5882.9	5747.0	5586.0	5437.5	5412.4	5246.3	5052.6	4826.1
15°	6167.2	6200.0	6111.9	5966.0	5792.3	5643.9	5631.3	5467.7	5279.0	5027.4
17.5°	6305.6	6338.4	6255.3	6079.2	5930.7	5804.9	5789.8	5653.9	5477.8	5236.2
20°	6328.3	6358.5	6270.4	6116.9	5993.6	5893.0	5885.4	5787.3	5659.0	5427.5
22.5°	6260.3	6298.1	6217.6	6094.3	6008.7	5955.9	5945.8	5890.5	5817.5	5621.2
25°	6189.9	6220.1	6159.7	6051.5	6006.2	6001.2	6008.7	5998.7	5983.6	5817.5
27.5°	6184.9	6217.6	6149.6	6046.5	6021.3	6074.1	6081.7	6129.5	6142.1	5996.1
30°	6227.6	6250.3	6184.9	6076.7	6064.1	6184.9	6187.4	6272.9	6293.1	6147.1
32.5°	6320.7	6345.9	6280.5	6122.0	6104.3	6272.9	6280.5	6393.7	6426.4	6308.2
35°	6539.7	6569.8	6494.4	6247.8	6184.9	6356.0	6378.6	6512.0	6577.4	6479.3
37.5°	7085.7	6997.6	6894.4	6501.9	6368.5	6486.8	6524.6	6680.6	6796.3	6683.1
40°	8441.9	8165.1	7843.1	6934.7	6690.6	6766.1	6796.3	6952.3	7110.8	7000.1
42.5°	10477.5	10150.4	9632.1	7931.1	7176.3	7214.0	7236.6	7372.5	7596.5	7508.4
45°	12291.7	12173.5	11645.1	9632.1	8084.6	7898.4	7926.1	7996.5	8326.2	8293.5
47.5°	13685.7	13617.8	13210.1	11584.7	9619.5	8736.3	8814.3	8847.0	9322.6	9438.3
50°	14757.6	14732.5	14367.6	13320.9	11624.9	9971.8	9999.4	9929.0	10641.1	10927.9
52.5°	15769.1	15854.7	15585.5	14933.8	13766.2	11589.7	11584.7	11252.5	12213.7	12646.5
55°	16682.5	16712.7	16740.4	16579.4	15920.1	13431.6	13383.8	12840.3	14038.0	14485.9
57.5°	17540.6	17553.1	17799.7	18129.3	18162.1	15409.3	15321.3	14669.5	16030.8	16350.4
60°	18116.8	18174.6	18695.5	19611.4	20011.5	17450.0	17402.2	16737.9	18058.9	18207.4
62.5°	17286.4	17638.7	18952.2	20768.9	21757.7	19712.1	19689.4	19065.4	20192.6	20071.9
65°	13992.7	14589.0	16898.9	21551.4	23471.3	22238.3	22271.0	21606.8	22384.3	21991.7
67.5°	9788.1	10417.1	13149.8	21614.3	25386.1	25205.0	25393.7	24352.0	24711.8	23831.1
70°	6768.6	7093.2	8872.2	20260.6	26878.2	29291.3	29286.3	27723.7	27026.7	24669.0
72.5°	4551.8	4720.4	5762.1	16073.6	25781.2	31719.4	31573.5	30300.3	27806.7	23071.2
75°	1919.9	2043.2	2667.2	9033.2	20396.5	29019.5	28624.5	26777.6	24706.7	18167.1
77.5°	608.9	661.8	1051.8	3233.3	11234.9	21813.1	21395.4	16722.8	16559.2	9113.7
80°	289.4	337.2	591.3	1298.4	4421.0	11864.0	11806.1	7586.4	7123.4	2460.9
82.5°	125.8	148.5	327.1	694.5	1977.7	4232.3	4317.8	2581.6	2136.3	933.5
85°	40.3	52.8	151.0	319.6	835.4	1051.8	1039.2	614.0	860.5	508.3
87.5°	0.0	0.0	50.3	73.0	85.6	60.4	67.9	52.8	239.0	140.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954299
 CATALOG NUMBER: GALN-SB7C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4038.5	0°	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5	4038.5
4088.9	2.5°	4058.7	4018.4	3947.9	3882.5	3824.7	3766.8	3731.6	3681.2	3676.2	3676.2
4154.3	5°	4086.3	4020.9	3895.1	3761.7	3608.3	3462.3	3316.4	3175.5	3130.2	3097.5
4260.0	7.5°	4166.9	4063.7	3864.9	3610.8	3318.9	2999.3	2775.4	2533.8	2440.7	2390.4
4400.9	10°	4282.6	4141.7	3839.7	3394.4	2921.3	2486.0	2166.5	1904.8	1804.1	1761.4
4554.4	12.5°	4410.9	4237.3	3794.5	3125.1	2486.0	1965.2	1653.2	1532.4	1517.3	1517.3
4738.0	15°	4564.4	4353.1	3716.5	2808.1	2030.6	1555.0	1444.3	1449.3	1464.4	1474.5
4916.7	17.5°	4722.9	4476.4	3593.2	2453.3	1628.0	1399.0	1401.5	1409.1	1421.7	1431.7
5110.4	20°	4894.0	4599.6	3429.6	2075.9	1396.5	1353.7	1361.3	1368.8	1378.9	1383.9
5291.6	22.5°	5077.7	4715.4	3235.9	1706.0	1318.5	1316.0	1318.5	1326.0	1338.6	1338.6
5503.0	25°	5274.0	4843.7	3014.4	1436.8	1278.2	1278.2	1283.3	1288.3	1298.4	1298.4
5706.8	27.5°	5475.3	4962.0	2780.4	1295.9	1243.0	1240.5	1240.5	1248.0	1253.1	1255.6
5908.1	30°	5696.7	5100.4	2546.4	1265.7	1215.3	1202.8	1195.2	1200.2	1205.3	1207.8
6119.4	32.5°	5923.2	5233.7	2337.6	1278.2	1187.7	1165.0	1139.8	1134.8	1134.8	1144.9
6338.4	35°	6174.8	5379.7	2176.5	1321.0	1172.6	1109.7	1069.4	1046.7	1049.3	1064.4
6600.0	37.5°	6476.7	5555.8	2058.3	1358.8	1162.5	1046.7	981.3	953.6	936.0	953.6
6959.9	40°	6871.8	5815.0	1972.7	1389.0	1149.9	973.8	885.7	840.4	807.7	817.8
7518.5	42.5°	7453.0	6222.6	1940.0	1391.5	1122.2	888.2	787.6	727.2	679.4	681.9
8358.9	45°	8268.3	6866.8	2108.6	1358.8	1061.8	795.1	684.4	603.9	573.7	566.1
9614.5	47.5°	9385.5	7805.3	2498.6	1290.8	973.8	704.5	583.8	515.8	493.2	480.6
11262.6	50°	10882.6	9010.6	2931.4	1215.3	885.7	619.0	500.7	458.0	442.9	430.3
13217.7	52.5°	12618.8	10233.5	3286.2	1139.8	797.6	543.5	447.9	422.7	410.1	400.1
15104.9	55°	14211.6	11076.4	3266.1	1059.3	712.1	483.1	410.1	395.0	379.9	369.9
16730.3	57.5°	15203.0	11194.7	2692.4	971.3	614.0	435.3	374.9	364.9	347.2	334.7
18136.9	60°	15658.4	10520.3	1887.2	855.5	515.8	390.0	337.2	332.1	309.5	291.9
19468.0	62.5°	15741.5	9267.2	1258.1	712.1	430.3	347.2	299.4	291.9	261.7	231.5
20550.0	65°	15404.3	7475.7	870.6	556.1	367.4	301.9	256.7	241.6	208.8	178.7
20806.6	67.5°	14337.4	5248.8	606.4	400.1	312.0	239.0	203.8	198.8	173.6	148.5
19498.2	70°	12382.3	2991.8	405.1	299.4	246.6	163.6	161.0	166.1	140.9	120.8
15930.2	72.5°	9493.7	1368.8	251.6	218.9	168.6	110.7	128.3	130.8	108.2	90.6
9939.1	75°	5588.5	586.3	158.5	140.9	85.6	73.0	93.1	95.6	73.0	57.9
3633.4	77.5°	1902.3	221.4	100.6	83.0	42.8	40.3	60.4	60.4	40.3	22.6
729.7	80°	432.8	83.0	50.3	32.7	20.1	17.6	20.1	17.6	10.1	2.5
223.9	82.5°	123.3	32.7	20.1	12.6	7.5	7.5	2.5	0.0	0.0	0.0
78.0	85°	35.2	15.1	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
27.7	87.5°	15.1	2.5	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>
4038.5
3688.8
3112.6
2398.0
1761.4
1517.3
1474.5
1431.7
1386.4
1343.7
1300.9
1258.1
1212.8
1152.4
1071.9
948.6
812.7
671.8
556.1
473.0
427.8
397.6
364.9
332.1
286.8
216.4
168.6
140.9
110.7
80.5
50.3
17.6
0.0
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