

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: P947153

Luminaire Tested: **GALN-SB2C-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11394 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

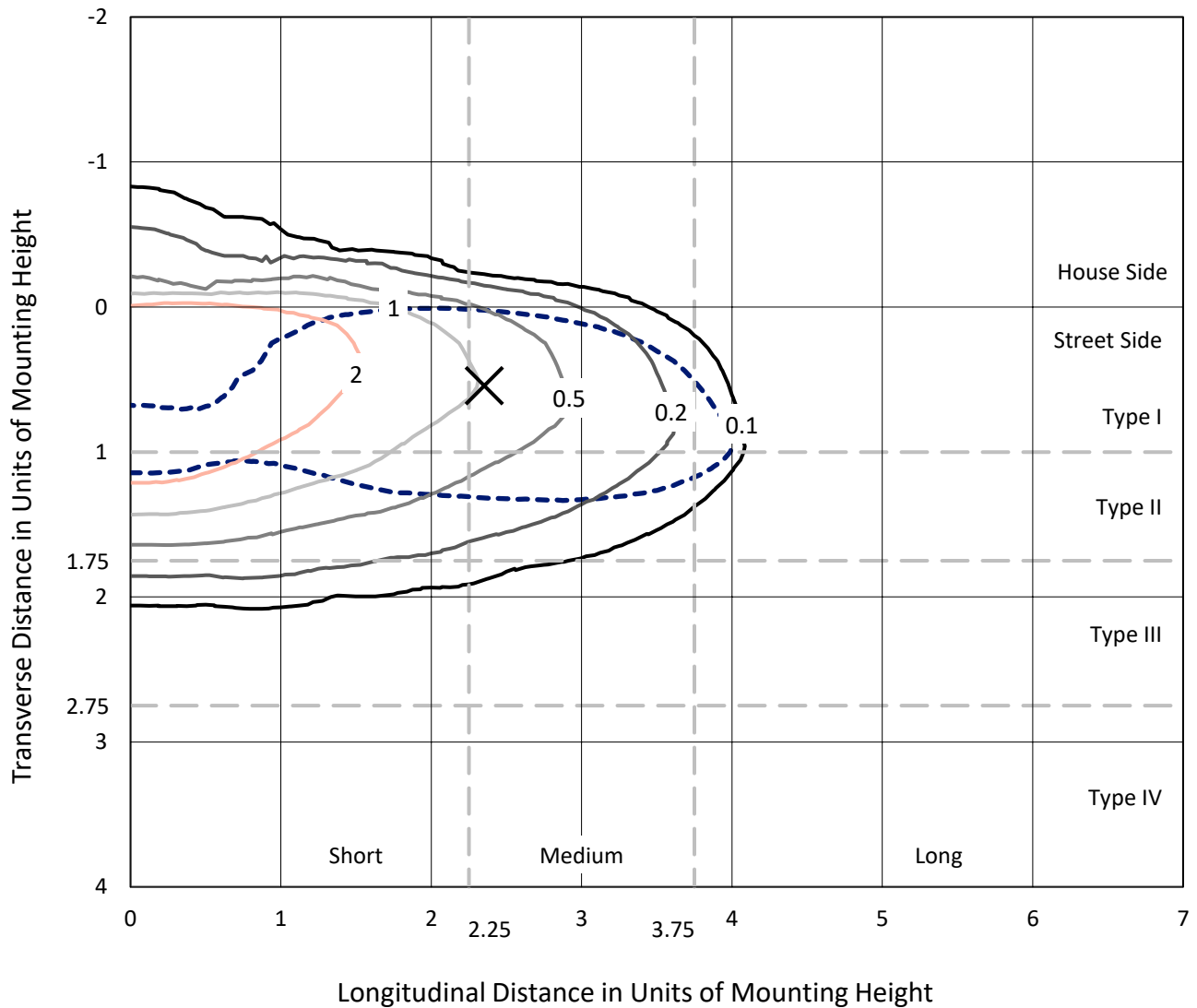
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

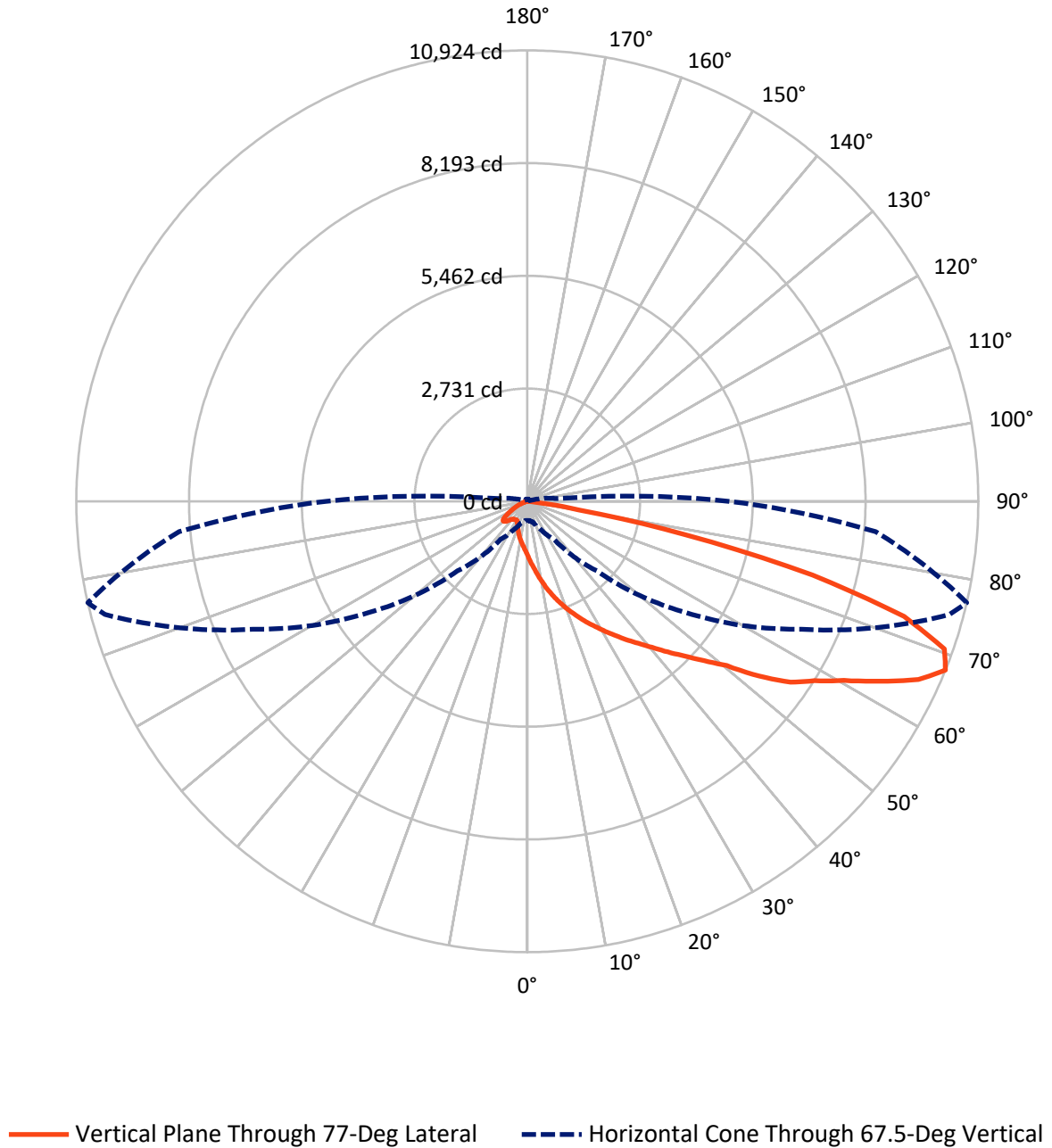
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	838.3	0.0	838.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	10555.7	0.0	10555.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	11394.0	0.0	11394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	1.2
10°-20°	469.6	4.1
20°-30°	906.2	8.0
30°-40°	1573.3	13.8
40°-50°	2284.3	20.0
50°-60°	2623.2	23.0
60°-70°	2277.5	20.0
70°-80°	1072.7	9.4
80°-90°	53.0	0.5
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°	11394.0	100.0
0°-180°	11394.0	100.0

Coefficient of Utilization



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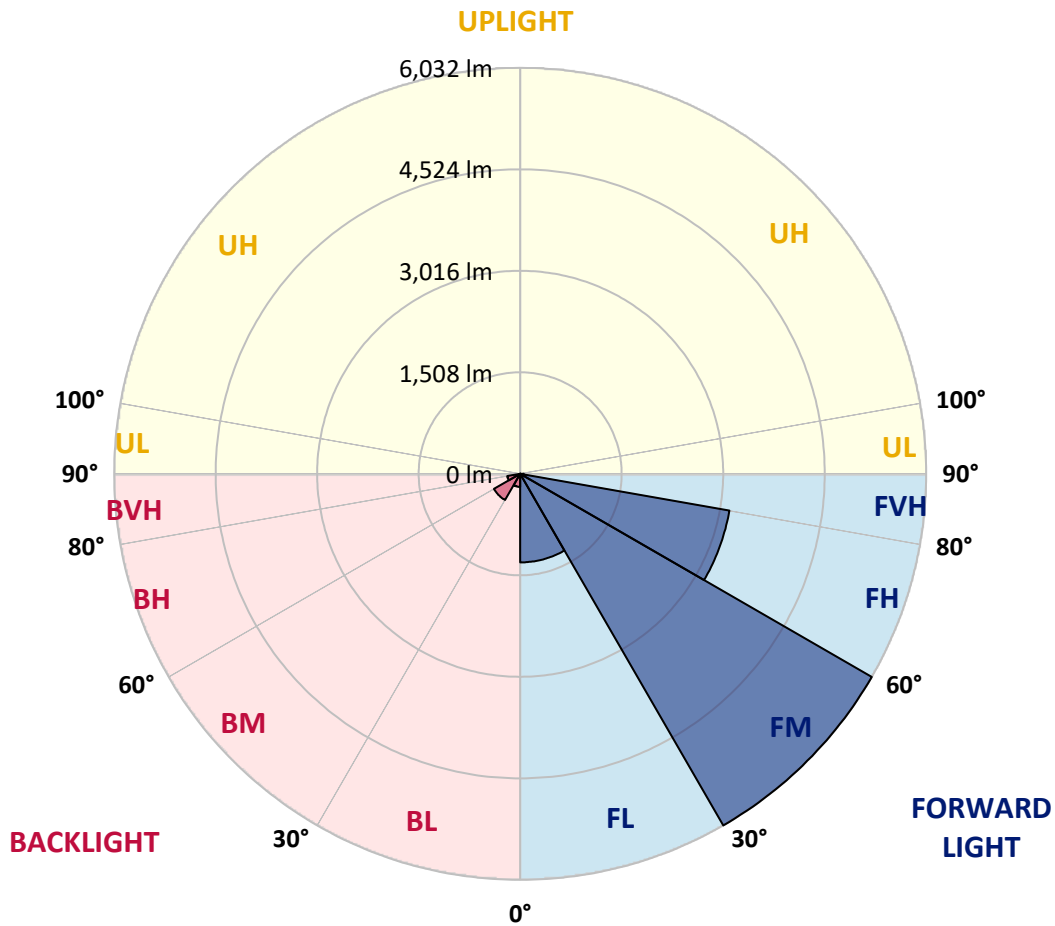
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.9	11.5			
FM (30°-60°)	6031.7	52.9			
FH (60°-80°)	3156.1	27.7			G2/5000
FVH (80°-90°)	52.1	0.5			G1/100
BL (0°-30°)	194.1	1.7	B1/500		
BM (30°-60°)	449.1	3.9	B1/1000		
BH (60°-80°)	194.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9
2.5°	1819.1	1830.4	1814.1	1783.0	1736.3	1705.9	1631.6	1561.5	1483.7	1458.9
5°	2217.4	2227.3	2208.9	2175.0	2112.7	2053.3	1955.6	1809.2	1657.1	1608.2
7.5°	2512.5	2518.1	2511.0	2479.9	2420.5	2353.3	2244.3	2071.0	1845.3	1791.5
10°	2724.7	2743.1	2741.0	2729.0	2689.3	2634.9	2518.8	2321.4	2056.1	1986.8
12.5°	2865.5	2886.0	2898.1	2925.0	2922.8	2888.2	2786.3	2577.6	2266.2	2184.9
15°	2906.6	2928.5	2974.5	3036.7	3091.9	3109.6	3038.2	2828.7	2497.6	2393.6
17.5°	2883.2	2917.2	2972.4	3070.7	3191.7	3271.6	3263.9	3071.4	2707.7	2588.9
20°	2934.9	2967.4	3010.6	3093.4	3234.2	3379.2	3437.2	3303.5	2916.5	2791.9
22.5°	3220.7	3215.0	3219.3	3232.7	3316.9	3460.6	3580.1	3514.3	3123.1	2995.7
25°	3673.5	3648.1	3604.9	3532.0	3510.8	3580.1	3704.7	3701.1	3341.0	3204.4
27.5°	4192.9	4188.6	4087.4	3912.0	3812.9	3786.0	3845.5	3883.0	3556.8	3411.0
30°	4690.3	4701.6	4565.0	4369.7	4187.9	4082.5	4028.7	4055.6	3776.1	3633.9
32.5°	5123.3	5135.3	4986.7	4758.2	4533.2	4405.8	4292.6	4226.1	4015.3	3860.3
35°	5489.1	5501.1	5330.6	5078.0	4838.1	4722.8	4594.7	4412.9	4255.8	4111.5
37.5°	5816.0	5812.4	5583.9	5329.2	5093.6	5002.3	4935.1	4642.9	4503.5	4364.1
40°	6009.1	6024.0	5828.7	5547.8	5319.3	5252.8	5248.5	4928.0	4789.3	4654.2
42.5°	6065.7	6091.9	5950.4	5719.7	5512.4	5440.2	5551.3	5236.5	5121.9	4990.3
45°	5963.8	5989.3	5924.9	5765.0	5644.0	5597.3	5811.7	5556.3	5477.0	5346.9
47.5°	5666.7	5698.5	5714.1	5680.1	5678.7	5726.1	6045.2	5893.1	5898.7	5765.7
50°	5091.4	5145.2	5288.1	5408.4	5594.5	5828.0	6272.3	6258.2	6374.2	6259.6
52.5°	4045.7	4122.1	4614.6	4943.6	5361.7	5808.9	6522.1	6844.0	7208.4	7040.7
55°	3251.1	3251.1	3651.6	4267.2	4907.5	5682.9	6631.0	7224.7	7776.5	7736.9
57.5°	2650.4	2682.3	2937.7	3481.8	4250.2	5382.9	6698.3	7463.8	8234.3	8205.3
60°	1635.8	1704.5	2187.0	2724.0	3502.3	4848.7	6655.8	7705.8	8789.7	8813.1
62.5°	921.2	946.7	1161.8	1959.9	2723.3	4130.6	6331.0	7840.9	9500.1	9599.2
65°	636.1	648.8	731.6	1219.8	1887.7	3288.6	5696.4	7756.7	10211.9	10412.1
67.5°	462.0	468.4	520.0	745.0	1120.0	2384.4	4701.6	7332.2	10589.0	10923.7
70°	355.2	359.4	396.9	489.6	661.5	1471.7	3414.6	6488.1	10315.9	10715.6
72.5°	288.7	292.9	321.9	362.3	438.7	870.3	2069.5	5269.0	9110.2	9541.8
75°	243.4	249.1	275.2	301.4	343.9	559.0	970.7	3669.3	6851.1	7134.1
77.5°	135.1	124.5	223.6	249.8	290.1	353.8	454.2	2159.4	3837.0	3915.5
80°	84.2	87.0	177.6	200.9	222.9	178.3	208.0	831.4	1330.2	1263.7
82.5°	5.0	11.3	136.6	145.0	152.8	76.4	78.5	282.3	320.5	294.3
85°	0.0	0.0	62.3	50.2	53.1	21.9	22.6	65.8	43.2	46.7
87.5°	0.0	0.0	0.0	1.4	0.0	2.1	4.2	5.7	2.1	2.8
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°
1313.9	0°	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9
1381.1	2.5°	1331.6	1282.1	1181.6	1083.2	1003.3	929.0	875.9	825.7	800.2	798.8
1470.3	5°	1371.9	1267.9	1067.0	889.4	746.5	631.8	557.5	504.5	477.6	468.4
1579.9	7.5°	1428.5	1272.2	966.5	719.6	551.2	452.8	410.4	393.4	387.7	381.4
1703.7	10°	1500.0	1282.1	876.6	579.5	434.4	384.9	367.9	360.8	356.6	352.4
1843.1	12.5°	1579.9	1291.3	787.5	481.1	382.1	356.6	344.6	336.1	330.4	325.5
1986.1	15°	1657.8	1296.9	694.8	412.5	355.2	334.7	321.9	312.7	304.9	299.3
2126.1	17.5°	1734.9	1304.7	607.8	371.5	333.2	312.7	300.0	288.7	282.3	275.9
2273.3	20°	1820.5	1303.3	525.7	342.4	311.3	290.8	277.4	266.7	260.4	253.3
2429.0	22.5°	1899.7	1296.2	453.5	317.7	288.7	268.9	254.0	243.4	237.0	231.4
2588.2	25°	1991.0	1290.5	393.4	295.0	267.4	247.6	231.4	221.5	214.4	209.4
2748.1	27.5°	2078.7	1282.1	349.5	274.5	246.9	227.8	212.3	200.9	194.6	191.0
2912.9	30°	2165.1	1279.9	333.2	254.7	228.5	209.4	193.9	183.3	178.3	176.9
3094.1	32.5°	2269.1	1285.6	340.3	247.6	211.6	192.4	177.6	169.8	164.9	164.9
3295.7	35°	2380.2	1284.2	350.9	254.0	200.2	175.5	164.1	159.2	154.2	154.2
3519.3	37.5°	2519.5	1286.3	359.4	264.6	196.0	161.3	155.0	148.6	145.8	145.8
3764.1	40°	2727.6	1356.3	355.2	273.8	194.6	151.4	138.7	136.6	134.4	134.4
4040.7	42.5°	2982.3	1508.5	360.8	274.5	193.9	144.3	127.4	131.6	126.6	125.9
4352.8	45°	3261.0	1674.7	396.9	259.7	193.2	140.8	121.7	126.6	118.9	118.9
4714.3	47.5°	3537.7	1839.6	433.7	238.4	191.0	140.1	116.7	113.9	111.8	112.5
5185.5	50°	3919.0	1974.0	447.9	209.4	186.1	138.7	107.5	108.3	106.8	108.3
5849.9	52.5°	4334.4	2002.3	430.9	176.9	171.9	134.4	101.2	104.0	103.3	104.7
6317.6	55°	4593.3	1971.9	355.9	147.2	150.0	117.5	94.8	100.5	100.5	100.5
6774.7	57.5°	4860.8	1842.4	252.6	119.6	124.5	96.2	89.1	96.9	96.2	95.5
7325.1	60°	5053.2	1633.0	166.3	98.3	99.1	79.2	82.8	91.3	90.6	87.0
7892.6	62.5°	5196.9	1401.6	106.8	83.5	75.7	71.5	75.7	82.8	80.0	72.2
8373.7	65°	5180.6	1081.1	82.1	71.5	62.3	62.3	65.8	72.2	63.7	50.9
8465.7	67.5°	4878.5	731.6	67.9	60.1	52.4	51.7	54.5	60.1	54.5	43.2
7994.5	70°	4338.6	478.3	54.5	46.7	41.7	38.2	43.9	51.7	46.0	34.7
6805.8	72.5°	3521.4	291.5	41.0	34.0	30.4	24.8	34.7	42.5	36.8	25.5
4732.7	75°	2278.3	148.6	28.3	21.9	16.3	14.9	25.5	31.8	25.5	15.6
2100.0	77.5°	871.7	62.3	15.6	9.9	8.5	7.1	14.2	19.1	10.6	3.5
406.8	80°	167.7	26.2	7.8	5.0	4.2	2.8	2.1	1.4	0.0	0.0
72.2	82.5°	29.0	8.5	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
14.2	85°	9.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	87.5°	3.5	0.0	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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180°
1313.9
797.4
467.0
379.9
350.9
324.1
298.6
275.2
252.6
230.7
208.7
191.0
176.2
164.9
154.2
145.8
134.4
125.2
118.9
112.5
108.3
104.7
100.5
95.5
87.0
70.8
49.5
41.7
33.3
24.1
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