

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: P948293

Luminaire Tested: **GALN-SB3B-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948293
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-SB3B-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA 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: 12448 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

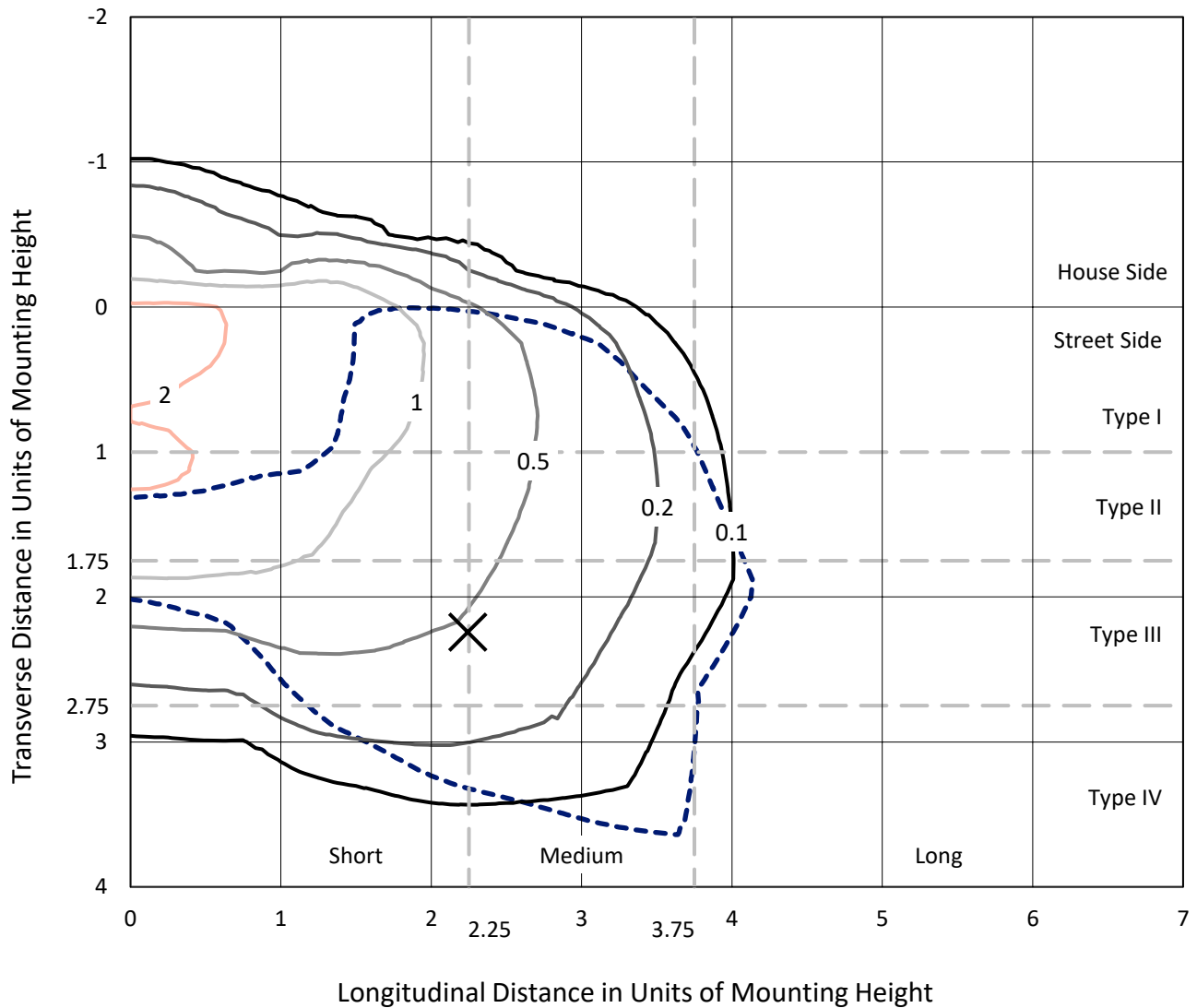
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948293
 CATALOG NUMBER: GALN-SB3B-850-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

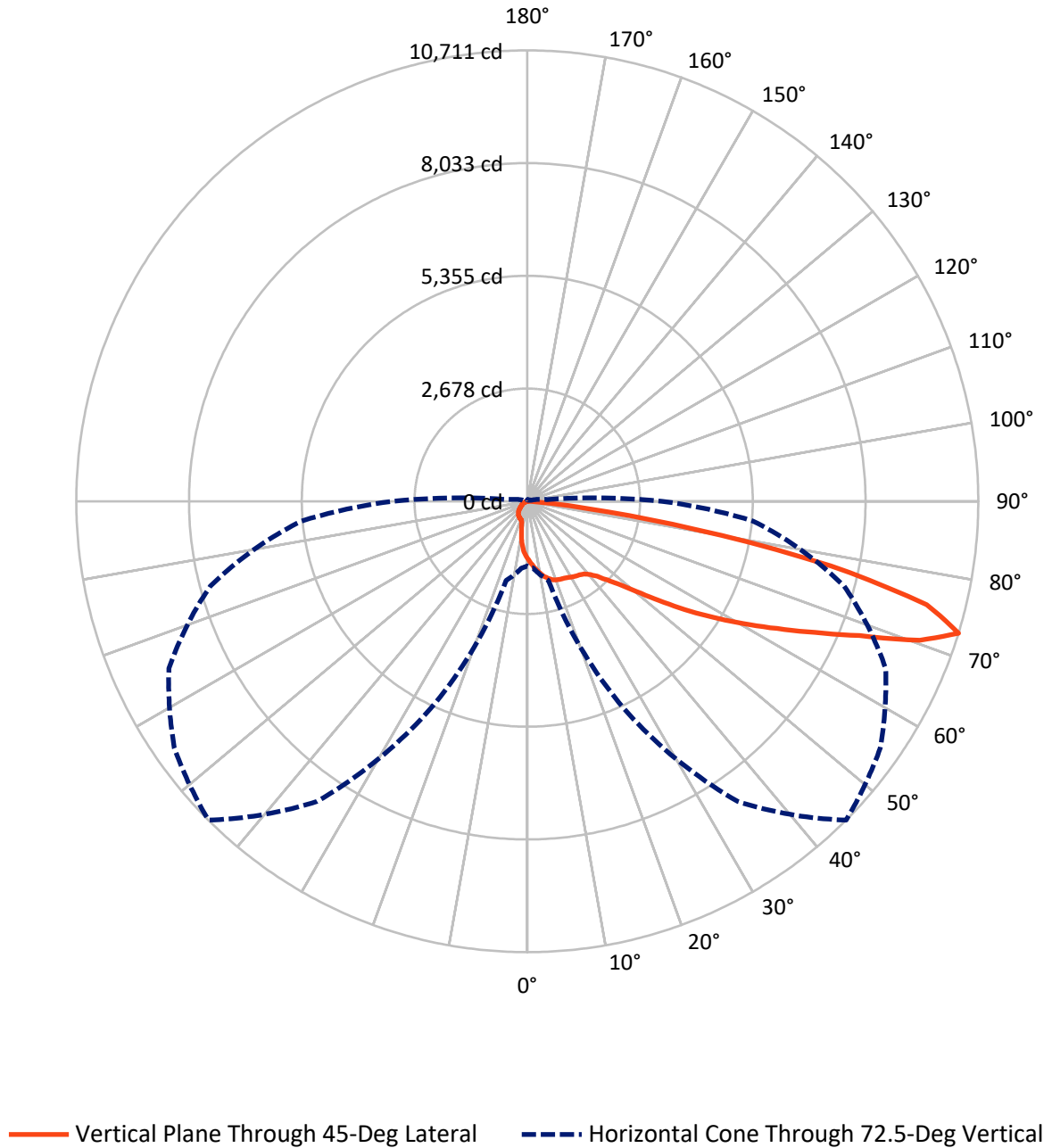
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

REPORT NUMBER: P948293
CATALOG NUMBER: GALN-SB3B-850-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1307.9	0.0	1307.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11140.1	0.0	11140.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	12448.0	0.0	12448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	1.0
10°-20°	375.5	3.0
20°-30°	616.7	5.0
30°-40°	874.6	7.0
40°-50°	1445.6	11.6
50°-60°	2596.8	20.9
60°-70°	3605.8	29.0
70°-80°	2615.5	21.0
80°-90°	189.1	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°	12448.0	100.0
0°-180°	12448.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948293

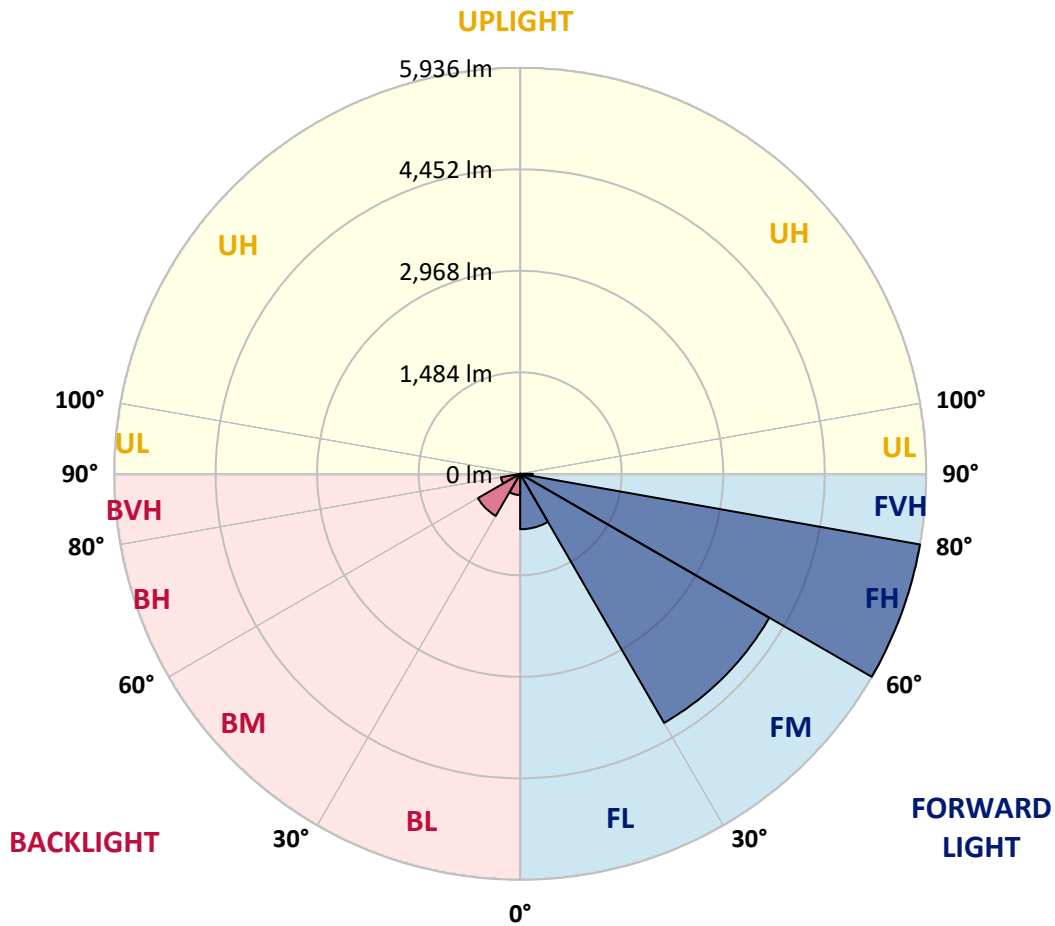
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.9	6.5			
FM (30°-60°)	4205.6	33.8			
FH (60°-80°)	5936.1	47.7			G3/7500
FVH (80°-90°)	187.5	1.5			G2/225
BL (0°-30°)	309.8	2.5	B1/500		
BM (30°-60°)	711.3	5.7	B1/1000		
BH (60°-80°)	285.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P948293

CATALOG NUMBER: GALN-SB3B-850-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1489.5	1492.0	1490.3	1480.1	1463.1	1453.8	1448.7	1431.7	1420.6	1401.1
5°	1626.2	1636.4	1630.5	1610.1	1577.8	1554.9	1548.1	1513.2	1481.8	1445.3
7.5°	1771.5	1776.6	1765.6	1739.3	1695.9	1656.8	1650.9	1602.5	1552.3	1496.3
10°	1897.3	1903.2	1886.2	1848.0	1798.7	1750.3	1741.8	1688.3	1628.8	1560.0
12.5°	2002.6	2008.6	1986.5	1940.6	1886.2	1836.1	1827.6	1771.5	1706.1	1629.6
15°	2082.5	2093.6	2063.8	2014.5	1955.9	1905.8	1901.5	1846.3	1782.6	1697.6
17.5°	2129.2	2140.3	2112.3	2052.8	2002.6	1960.2	1955.1	1909.2	1849.7	1768.1
20°	2136.9	2147.1	2117.4	2065.5	2023.9	1989.9	1987.4	1954.2	1910.9	1832.7
22.5°	2114.0	2126.7	2099.5	2057.9	2029.0	2011.1	2007.7	1989.1	1964.4	1898.1
25°	2090.2	2100.4	2080.0	2043.4	2028.1	2026.4	2029.0	2025.6	2020.5	1964.4
27.5°	2088.5	2099.5	2076.6	2041.7	2033.2	2051.1	2053.6	2069.8	2074.0	2024.7
30°	2102.9	2110.6	2088.5	2051.9	2047.7	2088.5	2089.3	2118.2	2125.0	2075.7
32.5°	2134.3	2142.8	2120.8	2067.2	2061.3	2118.2	2120.8	2159.0	2170.0	2130.1
35°	2208.3	2218.5	2193.0	2109.7	2088.5	2146.2	2153.9	2198.9	2221.0	2187.9
37.5°	2392.6	2362.9	2328.1	2195.5	2150.5	2190.4	2203.2	2255.8	2294.9	2256.7
40°	2850.6	2757.1	2648.4	2341.7	2259.2	2284.7	2294.9	2347.6	2401.1	2363.8
42.5°	3538.0	3427.5	3252.5	2678.1	2423.2	2436.0	2443.6	2489.5	2565.1	2535.4
45°	4150.6	4110.7	3932.2	3252.5	2730.0	2667.1	2676.4	2700.2	2811.5	2800.5
47.5°	4621.3	4598.4	4460.7	3911.8	3248.3	2950.0	2976.4	2987.4	3148.0	3187.1
50°	4983.3	4974.8	4851.6	4498.1	3925.4	3367.2	3376.6	3352.8	3593.2	3690.1
52.5°	5324.8	5353.7	5262.8	5042.7	4648.5	3913.5	3911.8	3799.7	4124.3	4270.4
55°	5633.2	5643.4	5652.8	5598.4	5375.8	4535.5	4519.3	4335.8	4740.3	4891.5
57.5°	5923.0	5927.2	6010.5	6121.8	6132.8	5203.3	5173.6	4953.5	5413.2	5521.1
60°	6117.6	6137.1	6313.0	6622.3	6757.3	5892.4	5876.3	5651.9	6098.0	6148.1
62.5°	5837.2	5956.1	6399.6	7013.1	7347.0	6656.2	6648.6	6437.9	6818.5	6777.7
65°	4725.0	4926.3	5706.3	7277.3	7925.6	7509.3	7520.3	7296.0	7558.6	7426.0
67.5°	3305.2	3517.6	4440.3	7298.6	8572.2	8511.0	8574.8	8223.0	8344.5	8047.1
70°	2285.6	2395.2	2995.9	6841.5	9076.1	9890.9	9889.2	9361.6	9126.2	8330.1
72.5°	1537.0	1594.0	1945.7	5427.6	8705.6	10710.8	10661.5	10231.6	9389.6	7790.5
75°	648.3	689.9	900.6	3050.3	6887.3	9799.1	9665.7	9042.1	8342.8	6134.5
77.5°	205.6	223.5	355.2	1091.8	3793.7	7365.7	7224.7	5646.8	5591.6	3077.5
80°	97.7	113.9	199.7	438.4	1492.9	4006.1	3986.6	2561.7	2405.4	831.0
82.5°	42.5	50.1	110.5	234.5	667.8	1429.1	1458.0	871.8	721.4	315.2
85°	13.6	17.8	51.0	107.9	282.1	355.2	350.9	207.3	290.6	171.6
87.5°	0.0	0.0	17.0	24.6	28.9	20.4	22.9	17.8	80.7	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948293

CATALOG NUMBER: GALN-SB3B-850-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1363.7	0°	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7
1380.7	2.5°	1370.5	1356.9	1333.1	1311.0	1291.5	1271.9	1260.0	1243.1	1241.4	1241.4
1402.8	5°	1379.8	1357.8	1315.3	1270.2	1218.4	1169.1	1119.9	1072.3	1057.0	1045.9
1438.5	7.5°	1407.0	1372.2	1305.1	1219.3	1120.7	1012.8	937.2	855.6	824.2	807.2
1486.1	10°	1446.1	1398.5	1296.6	1146.2	986.5	839.5	731.6	643.2	609.2	594.8
1537.9	12.5°	1489.5	1430.8	1281.3	1055.3	839.5	663.6	558.2	517.4	512.3	512.3
1599.9	15°	1541.3	1469.9	1254.9	948.2	685.7	525.1	487.7	489.4	494.5	497.9
1660.2	17.5°	1594.8	1511.5	1213.3	828.4	549.7	472.4	473.3	475.8	480.1	483.5
1725.7	20°	1652.6	1553.2	1158.1	701.0	471.6	457.1	459.7	462.2	465.6	467.3
1786.8	22.5°	1714.6	1592.3	1092.7	576.1	445.2	444.4	445.2	447.8	452.0	452.0
1858.2	25°	1780.9	1635.6	1017.9	485.2	431.6	431.6	433.3	435.0	438.4	438.4
1927.0	27.5°	1848.9	1675.5	938.9	437.6	419.7	418.9	418.9	421.4	423.1	424.0
1995.0	30°	1923.6	1722.3	859.9	427.4	410.4	406.1	403.6	405.3	407.0	407.8
2066.4	32.5°	2000.1	1767.3	789.3	431.6	401.0	393.4	384.9	383.2	383.2	386.6
2140.3	35°	2085.1	1816.6	735.0	446.1	395.9	374.7	361.1	353.5	354.3	359.4
2228.7	37.5°	2187.0	1876.1	695.0	458.8	392.5	353.5	331.4	322.0	316.1	322.0
2350.2	40°	2320.4	1963.6	666.1	469.0	388.3	328.8	299.1	283.8	272.7	276.1
2538.8	42.5°	2516.7	2101.2	655.1	469.9	378.9	299.9	265.9	245.6	229.4	230.3
2822.6	45°	2792.0	2318.7	712.0	458.8	358.6	268.5	231.1	203.9	193.7	191.2
3246.6	47.5°	3169.2	2635.6	843.7	435.9	328.8	237.9	197.1	174.2	166.5	162.3
3803.1	50°	3674.8	3042.6	989.9	410.4	299.1	209.0	169.1	154.6	149.5	145.3
4463.3	52.5°	4261.0	3455.6	1109.7	384.9	269.3	183.5	151.2	142.7	138.5	135.1
5100.5	55°	4798.9	3740.2	1102.9	357.7	240.5	163.1	138.5	133.4	128.3	124.9
5649.4	57.5°	5133.6	3780.1	909.1	328.0	207.3	147.0	126.6	123.2	117.3	113.0
6124.4	60°	5287.4	3552.4	637.2	288.9	174.2	131.7	113.9	112.2	104.5	98.6
6573.8	62.5°	5315.5	3129.3	424.8	240.5	145.3	117.3	101.1	98.6	88.4	78.2
6939.2	65°	5201.6	2524.3	294.0	187.8	124.1	102.0	86.7	81.6	70.5	60.3
7025.8	67.5°	4841.4	1772.4	204.8	135.1	105.4	80.7	68.8	67.1	58.6	50.1
6584.0	70°	4181.2	1010.2	136.8	101.1	83.3	55.2	54.4	56.1	47.6	40.8
5379.2	72.5°	3205.8	462.2	85.0	73.9	56.9	37.4	43.3	44.2	36.5	30.6
3356.2	75°	1887.1	198.0	53.5	47.6	28.9	24.6	31.4	32.3	24.6	19.5
1226.9	77.5°	642.3	74.8	34.0	28.0	14.4	13.6	20.4	20.4	13.6	7.6
246.4	80°	146.1	28.0	17.0	11.0	6.8	5.9	6.8	5.9	3.4	0.8
75.6	82.5°	41.6	11.0	6.8	4.2	2.5	2.5	0.8	0.0	0.0	0.0
26.3	85°	11.9	5.1	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
9.3	87.5°	5.1	0.8	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°
1363.7
1245.6
1051.0
809.7
594.8
512.3
497.9
483.5
468.2
453.7
439.3
424.8
409.5
389.1
362.0
320.3
274.4
226.9
187.8
159.7
144.4
134.2
123.2
112.2
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