

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: P947579

Luminaire Tested: **GALN-SB2D-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947579  
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-SB2D-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

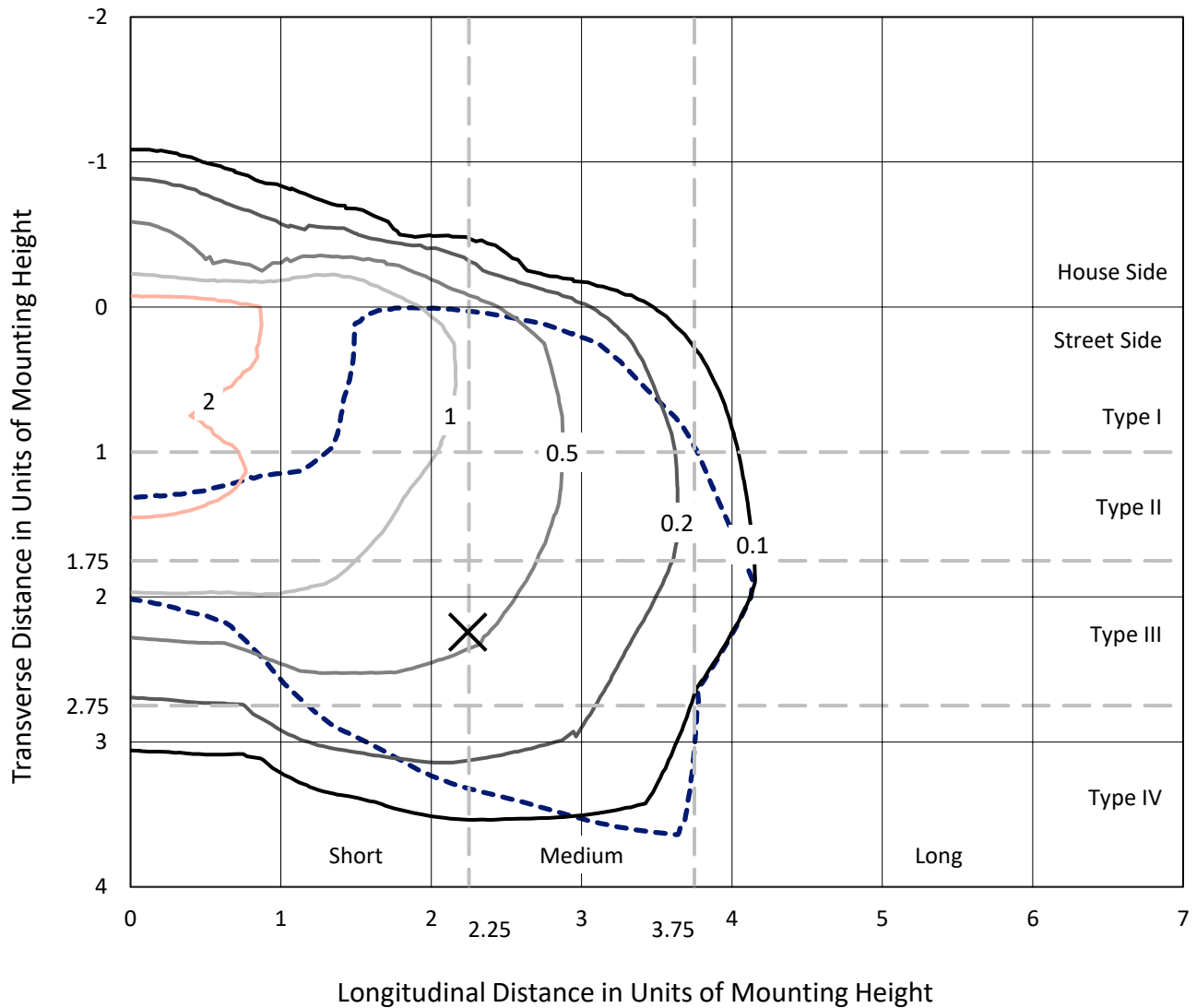
Lumens per Lamp: N/A  
Luminaire Lumens: 14994 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

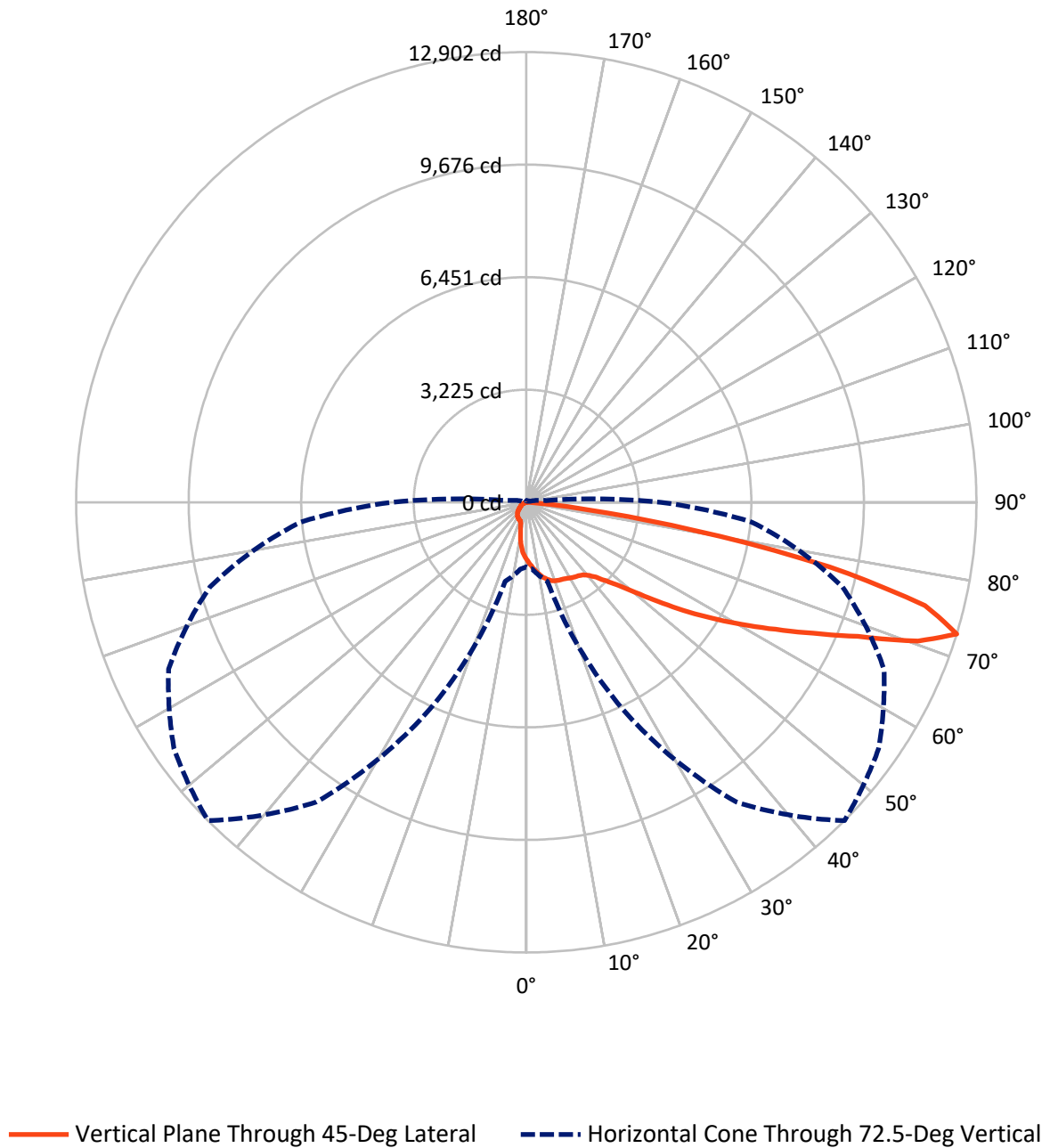
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1575.5	0.0	1575.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	13418.5	0.0	13418.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	14994.0	0.0	14994.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	1.0
10°-20°	452.3	3.0
20°-30°	742.8	5.0
30°-40°	1053.4	7.0
40°-50°	1741.2	11.6
50°-60°	3127.9	20.9
60°-70°	4343.3	29.0
70°-80°	3150.5	21.0
80°-90°	227.8	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°	14994.0	100.0
0°-180°	14994.0	100.0

**Coefficient of Utilization**



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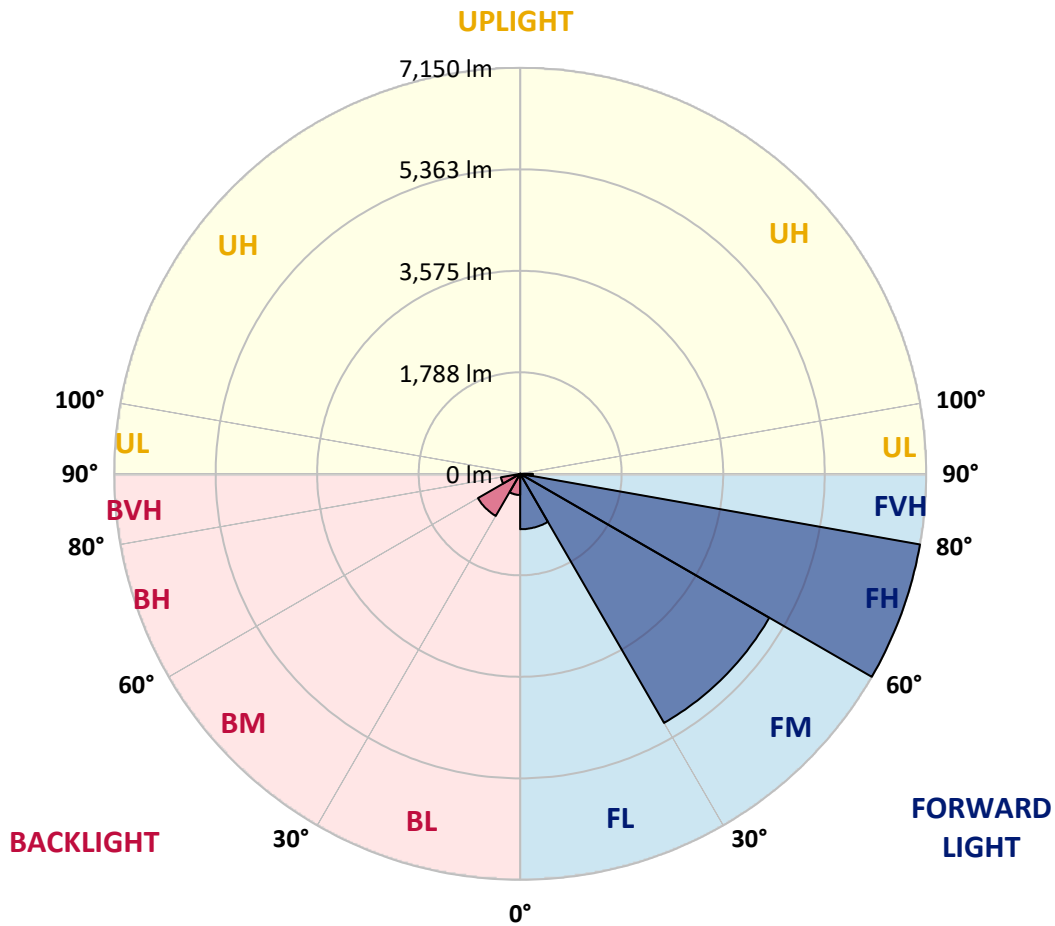
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.7	6.5			
FM (30°-60°)	5065.8	33.8			
FH (60°-80°)	7150.2	47.7			G3/7500
FVH (80°-90°)	225.9	1.5			G3/500
BL (0°-30°)	373.2	2.5	B1/500		
BM (30°-60°)	856.8	5.7	B1/1000		
BH (60°-80°)	343.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6
2.5°	1794.1	1797.2	1795.1	1782.8	1762.4	1751.1	1745.0	1724.5	1711.2	1687.7
5°	1958.9	1971.1	1964.0	1939.4	1900.5	1872.9	1864.7	1822.8	1784.9	1740.9
7.5°	2133.9	2140.0	2126.7	2095.0	2042.8	1995.7	1988.5	1930.2	1869.8	1802.3
10°	2285.3	2292.5	2272.0	2226.0	2166.6	2108.3	2098.1	2033.6	1961.9	1879.0
12.5°	2412.3	2419.4	2392.8	2337.5	2272.0	2211.7	2201.4	2133.9	2055.1	1963.0
15°	2508.5	2521.8	2485.9	2426.6	2356.0	2295.6	2290.5	2223.9	2147.2	2044.8
17.5°	2564.7	2578.1	2544.3	2472.6	2412.3	2361.1	2354.9	2299.7	2228.0	2129.8
20°	2574.0	2586.2	2550.4	2488.0	2437.8	2396.9	2393.8	2353.9	2301.7	2207.6
22.5°	2546.3	2561.7	2528.9	2478.8	2444.0	2422.5	2418.4	2395.9	2366.2	2286.4
25°	2517.7	2529.9	2505.4	2461.4	2443.0	2440.9	2444.0	2439.9	2433.7	2366.2
27.5°	2515.6	2528.9	2501.3	2459.3	2449.1	2470.6	2473.7	2493.1	2498.2	2438.9
30°	2533.0	2542.2	2515.6	2471.6	2466.5	2515.6	2516.6	2551.4	2559.6	2500.3
32.5°	2570.9	2581.1	2554.5	2490.0	2482.9	2551.4	2554.5	2600.6	2613.9	2565.8
35°	2659.9	2672.2	2641.5	2541.2	2515.6	2585.2	2594.4	2648.7	2675.3	2635.4
37.5°	2882.0	2846.2	2804.2	2644.6	2590.3	2638.4	2653.8	2717.2	2764.3	2718.3
40°	3433.6	3321.1	3190.1	2820.6	2721.3	2752.0	2764.3	2827.8	2892.2	2847.2
42.5°	4261.6	4128.6	3917.7	3225.9	2918.9	2934.2	2943.4	2998.7	3089.8	3054.0
45°	4999.5	4951.4	4736.5	3917.7	3288.3	3212.6	3223.8	3252.5	3386.6	3373.3
47.5°	5566.5	5538.9	5373.1	4711.9	3912.6	3553.4	3585.1	3598.4	3791.9	3838.9
50°	6002.5	5992.3	5843.9	5418.1	4728.3	4055.9	4067.2	4038.5	4328.1	4444.8
52.5°	6413.9	6448.7	6339.2	6074.1	5599.3	4714.0	4711.9	4576.8	4967.8	5143.8
55°	6785.4	6797.7	6809.0	6743.5	6475.3	5463.1	5443.7	5222.6	5709.8	5892.0
57.5°	7134.4	7139.5	7239.8	7373.9	7387.2	6267.6	6231.7	5966.7	6520.3	6650.3
60°	7368.8	7392.3	7604.2	7976.7	8139.4	7097.6	7078.1	6807.9	7345.2	7405.6
62.5°	7031.0	7174.3	7708.6	8447.5	8849.7	8017.6	8008.4	7754.6	8213.1	8164.0
65°	5691.4	5933.9	6873.4	8765.8	9546.7	9045.2	9058.5	8788.3	9104.5	8944.9
67.5°	3981.2	4237.1	5348.5	8791.4	10325.5	10251.8	10328.6	9904.9	10051.2	9693.0
70°	2753.1	2885.1	3608.7	8240.8	10932.4	11913.9	11911.8	11276.3	10992.8	10033.8
72.5°	1851.4	1920.0	2343.7	6537.7	10486.2	12901.5	12842.2	12324.3	11310.1	9383.9
75°	780.9	831.0	1084.8	3674.2	8296.0	11803.4	11642.7	10891.5	10049.2	7389.3
77.5°	247.7	269.2	427.8	1315.1	4569.7	8872.2	8702.3	6801.8	6735.3	3706.9
80°	117.7	137.1	240.5	528.1	1798.2	4825.5	4802.0	3085.7	2897.4	1000.9
82.5°	51.2	60.4	133.0	282.5	804.4	1721.4	1756.2	1050.1	868.9	379.7
85°	16.4	21.5	61.4	130.0	339.8	427.8	422.7	249.7	350.0	206.7
87.5°	0.0	0.0	20.5	29.7	34.8	24.6	27.6	21.5	97.2	57.3
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°
1642.6	0°	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6	1642.6
1663.1	2.5°	1650.8	1634.4	1605.8	1579.2	1555.6	1532.1	1517.8	1497.3	1495.2	1495.2
1689.7	5°	1662.1	1635.5	1584.3	1530.0	1467.6	1408.3	1348.9	1291.6	1273.2	1259.9
1732.7	7.5°	1694.8	1652.9	1572.0	1468.6	1349.9	1219.9	1128.9	1030.6	992.7	972.3
1790.0	10°	1741.9	1684.6	1561.8	1380.6	1188.2	1011.2	881.2	774.7	733.8	716.4
1852.4	12.5°	1794.1	1723.5	1543.4	1271.1	1011.2	799.3	672.4	623.3	617.1	617.1
1927.1	15°	1856.5	1770.6	1511.6	1142.2	825.9	632.5	587.5	589.5	595.6	599.7
1999.8	17.5°	1921.0	1820.7	1461.5	997.9	662.2	569.0	570.1	573.1	578.2	582.3
2078.6	20°	1990.6	1870.9	1395.0	844.3	568.0	550.6	553.7	556.8	560.8	562.9
2152.3	22.5°	2065.3	1917.9	1316.1	693.9	536.3	535.3	536.3	539.4	544.5	544.5
2238.3	25°	2145.1	1970.1	1226.1	584.4	519.9	519.9	522.0	524.0	528.1	528.1
2321.2	27.5°	2227.0	2018.2	1130.9	527.1	505.6	504.6	504.6	507.6	509.7	510.7
2403.0	30°	2317.1	2074.5	1035.7	514.8	494.3	489.2	486.1	488.2	490.2	491.3
2489.0	32.5°	2409.2	2128.8	950.8	519.9	483.1	473.9	463.6	461.6	461.6	465.7
2578.1	35°	2511.5	2188.1	885.3	537.3	476.9	451.3	435.0	425.8	426.8	432.9
2684.5	37.5°	2634.3	2259.8	837.2	552.7	472.8	425.8	399.1	387.9	380.7	387.9
2830.8	40°	2795.0	2365.2	802.4	564.9	467.7	396.1	360.3	341.8	328.5	332.6
3058.0	42.5°	3031.4	2531.0	789.1	566.0	456.5	361.3	320.3	295.8	276.3	277.4
3399.9	45°	3363.0	2793.0	857.6	552.7	431.9	323.4	278.4	245.6	233.3	230.3
3910.6	47.5°	3817.4	3174.7	1016.3	525.0	396.1	286.6	237.4	209.8	200.6	195.5
4580.9	50°	4426.4	3664.9	1192.3	494.3	360.3	251.8	203.7	186.3	180.1	175.0
5376.1	52.5°	5132.6	4162.3	1336.6	463.6	324.4	221.1	182.2	171.9	166.8	162.7
6143.7	55°	5780.4	4505.2	1328.4	430.9	289.6	196.5	166.8	160.7	154.5	150.4
6804.9	57.5°	6183.6	4553.3	1095.1	395.0	249.7	177.1	152.5	148.4	141.2	136.1
7377.0	60°	6368.9	4279.0	767.6	348.0	209.8	158.6	137.1	135.1	125.9	118.7
7918.4	62.5°	6402.7	3769.3	511.7	289.6	175.0	141.2	121.8	118.7	106.4	94.2
8358.5	65°	6265.5	3040.6	354.1	226.2	149.4	122.8	104.4	98.3	84.9	72.7
8462.8	67.5°	5831.6	2134.9	246.6	162.7	126.9	97.2	82.9	80.9	70.6	60.4
7930.7	70°	5036.4	1216.9	164.8	121.8	100.3	66.5	65.5	67.5	57.3	49.1
6479.4	72.5°	3861.4	556.8	102.3	89.0	68.6	45.0	52.2	53.2	44.0	36.8
4042.6	75°	2273.1	238.5	64.5	57.3	34.8	29.7	37.9	38.9	29.7	23.5
1477.9	77.5°	773.7	90.1	40.9	33.8	17.4	16.4	24.6	24.6	16.4	9.2
296.8	80°	176.0	33.8	20.5	13.3	8.2	7.2	8.2	7.2	4.1	1.0
91.1	82.5°	50.1	13.3	8.2	5.1	3.1	3.1	1.0	0.0	0.0	0.0
31.7	85°	14.3	6.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
11.3	87.5°	6.1	1.0	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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<u>180°</u>
1642.6
1500.4
1266.0
975.3
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617.1
599.7
582.3
563.9
546.5
529.1
511.7
493.3
468.7
436.0
385.8
330.6
273.3
226.2
192.4
174.0
161.7
148.4
135.1
116.7
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68.6
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