

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: P949238

Luminaire Tested: **GALN-SB4A-750-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949238  
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-SB4A-750-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

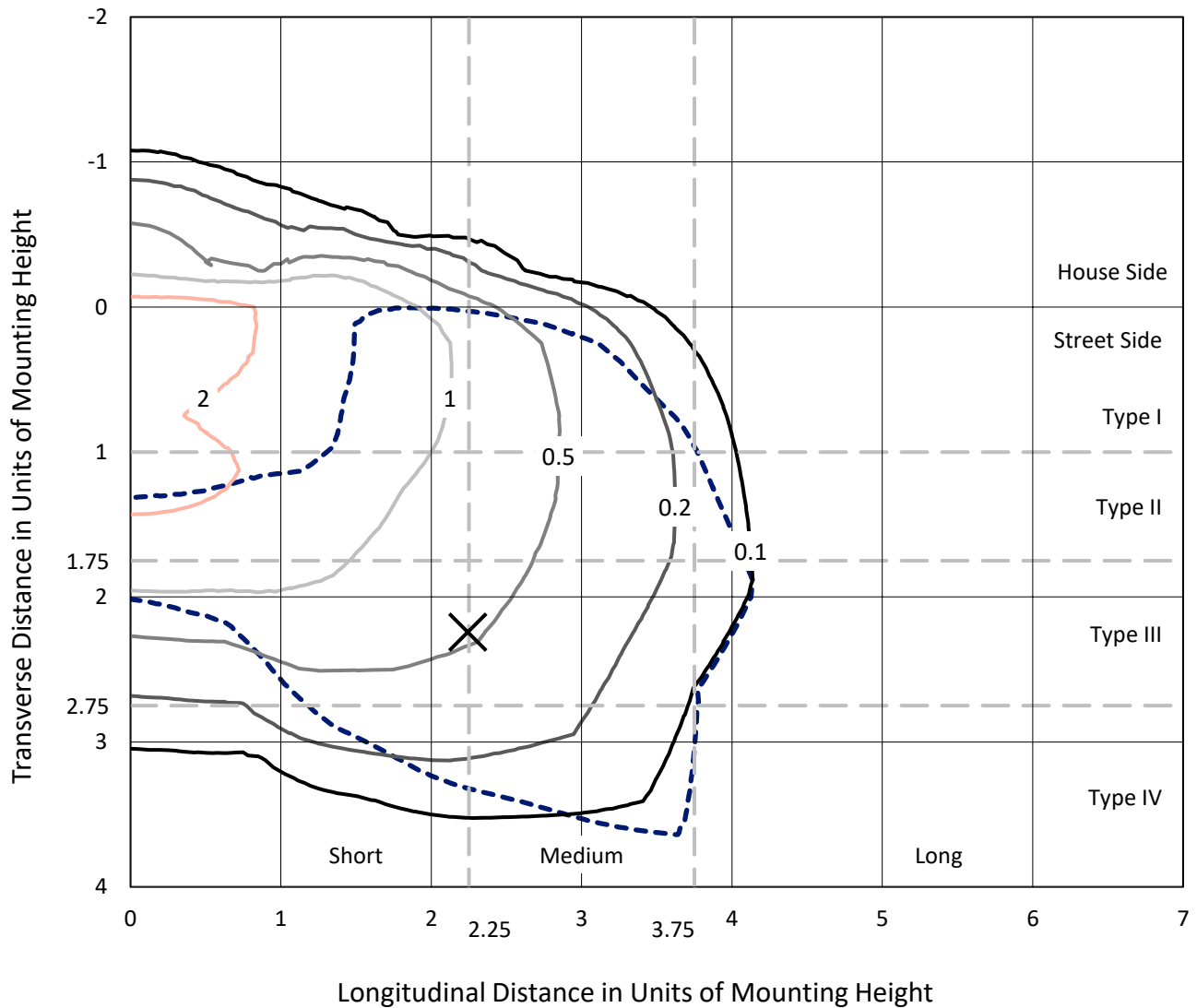
Lumens per Lamp: N/A  
Luminaire Lumens: 14651 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

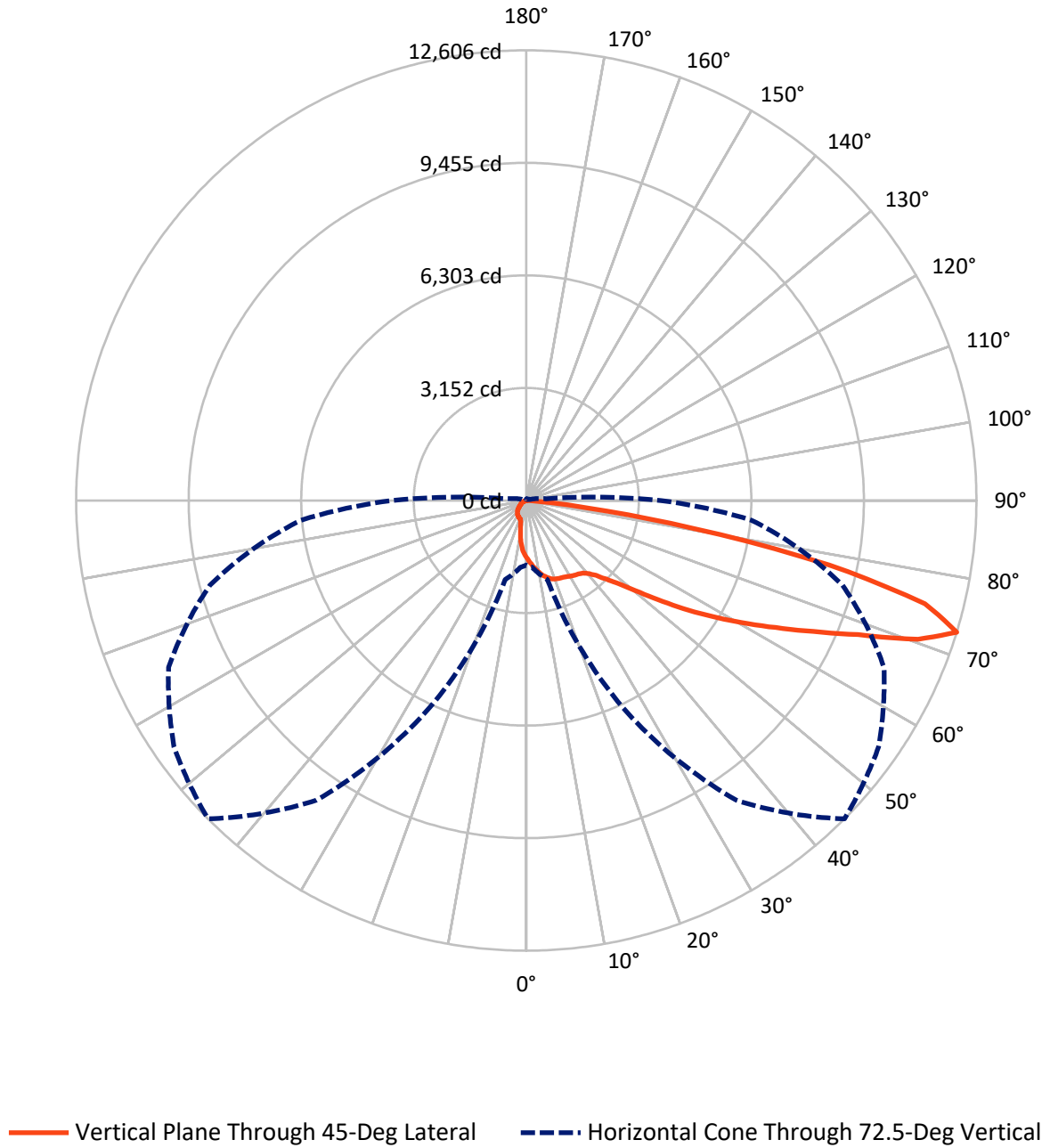
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1539.4	0.0	1539.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	13111.6	0.0	13111.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	14651.0	0.0	14651.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	1.0
10°-20°	442.0	3.0
20°-30°	725.8	5.0
30°-40°	1029.3	7.0
40°-50°	1701.4	11.6
50°-60°	3056.4	20.9
60°-70°	4243.9	29.0
70°-80°	3078.4	21.0
80°-90°	222.6	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°	14651.0	100.0
0°-180°	14651.0	100.0

**Coefficient of Utilization**



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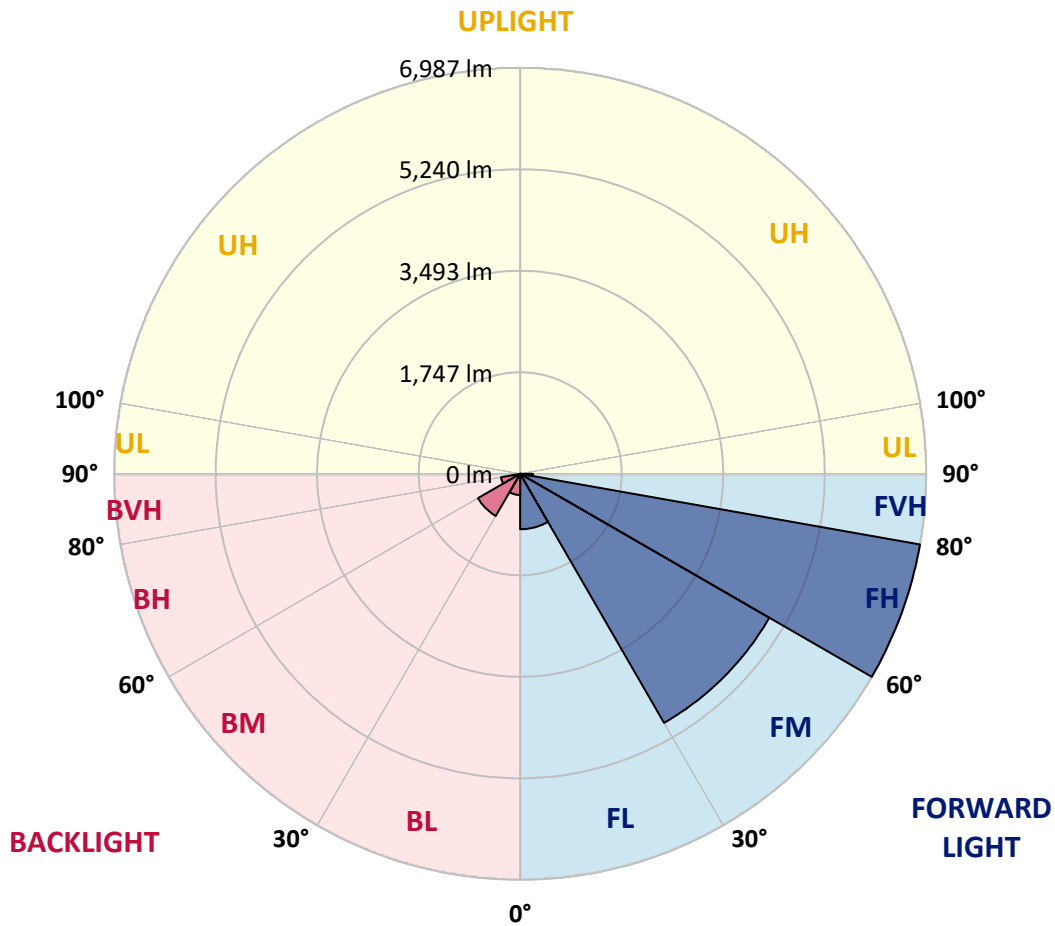
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.4	6.5			
FM (30°-60°)	4949.9	33.8			
FH (60°-80°)	6986.6	47.7			G3/7500
FVH (80°-90°)	220.7	1.5			G2/225
BL (0°-30°)	364.6	2.5	B1/500		
BM (30°-60°)	837.2	5.7	B1/1000		
BH (60°-80°)	335.7	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°	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0
2.5°	1753.1	1756.1	1754.1	1742.1	1722.1	1711.1	1705.1	1685.1	1672.1	1649.0
5°	1914.1	1926.1	1919.1	1895.1	1857.1	1830.1	1822.1	1781.1	1744.1	1701.1
7.5°	2085.1	2091.1	2078.1	2047.1	1996.1	1950.1	1943.1	1886.1	1827.1	1761.1
10°	2233.1	2240.1	2220.1	2175.1	2117.1	2060.1	2050.1	1987.1	1917.1	1836.1
12.5°	2357.1	2364.1	2338.1	2284.1	2220.1	2161.1	2151.1	2085.1	2008.1	1918.1
15°	2451.1	2464.1	2429.1	2371.1	2302.1	2243.1	2238.1	2173.1	2098.1	1998.1
17.5°	2506.1	2519.1	2486.1	2416.1	2357.1	2307.1	2301.1	2247.1	2177.1	2081.1
20°	2515.1	2527.1	2492.1	2431.1	2382.1	2342.1	2339.1	2300.1	2249.1	2157.1
22.5°	2488.1	2503.1	2471.1	2422.1	2388.1	2367.1	2363.1	2341.1	2312.1	2234.1
25°	2460.1	2472.1	2448.1	2405.1	2387.1	2385.1	2388.1	2384.1	2378.1	2312.1
27.5°	2458.1	2471.1	2444.1	2403.1	2393.1	2414.1	2417.1	2436.1	2441.1	2383.1
30°	2475.1	2484.1	2458.1	2415.1	2410.1	2458.1	2459.1	2493.1	2501.1	2443.1
32.5°	2512.1	2522.1	2496.1	2433.1	2426.1	2493.1	2496.1	2541.1	2554.1	2507.1
35°	2599.1	2611.1	2581.1	2483.1	2458.1	2526.1	2535.1	2588.1	2614.1	2575.1
37.5°	2816.1	2781.1	2740.1	2584.1	2531.1	2578.1	2593.1	2655.1	2701.1	2656.1
40°	3355.1	3245.1	3117.1	2756.1	2659.1	2689.1	2701.1	2763.1	2826.1	2782.1
42.5°	4164.1	4034.1	3828.1	3152.1	2852.1	2867.1	2876.1	2930.1	3019.1	2984.1
45°	4885.1	4838.1	4628.1	3828.1	3213.1	3139.1	3150.1	3178.1	3309.1	3296.1
47.5°	5439.2	5412.2	5250.2	4604.1	3823.1	3472.1	3503.1	3516.1	3705.1	3751.1
50°	5865.2	5855.2	5710.2	5294.2	4620.1	3963.1	3974.1	3946.1	4229.1	4343.1
52.5°	6267.2	6301.2	6194.2	5935.2	5471.2	4606.1	4604.1	4472.1	4854.1	5026.2
55°	6630.2	6642.2	6653.2	6589.2	6327.2	5338.2	5319.2	5103.2	5579.2	5757.2
57.5°	6971.2	6976.2	7074.2	7205.2	7218.2	6124.2	6089.2	5830.2	6371.2	6498.2
60°	7200.2	7223.2	7430.2	7794.2	7953.2	6935.2	6916.2	6652.2	7177.2	7236.2
62.5°	6870.2	7010.2	7532.2	8254.2	8647.3	7834.2	7825.2	7577.2	8025.2	7977.2
65°	5561.2	5798.2	6716.2	8565.3	9328.3	8838.3	8851.3	8587.3	8896.3	8740.3
67.5°	3890.1	4140.1	5226.2	8590.3	10089.3	10017.3	10092.3	9678.3	9821.3	9471.3
70°	2690.1	2819.1	3526.1	8052.2	10682.3	11641.3	11639.3	11018.3	10741.3	9804.3
72.5°	1809.1	1876.1	2290.1	6388.2	10246.3	12606.4	12548.4	12042.4	11051.3	9169.3
75°	763.0	812.0	1060.0	3590.1	8106.2	11533.3	11376.3	10642.3	9819.3	7220.2
77.5°	242.0	263.0	418.0	1285.0	4465.1	8669.3	8503.3	6646.2	6581.2	3622.1
80°	115.0	134.0	235.0	516.0	1757.1	4715.1	4692.1	3015.1	2831.1	978.0
82.5°	50.0	59.0	130.0	276.0	786.0	1682.1	1716.1	1026.0	849.0	371.0
85°	16.0	21.0	60.0	127.0	332.0	418.0	413.0	244.0	342.0	202.0
87.5°	0.0	0.0	20.0	29.0	34.0	24.0	27.0	21.0	95.0	56.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1605.0	0°	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0	1605.0
1625.0	2.5°	1613.0	1597.0	1569.0	1543.0	1520.0	1497.0	1483.0	1463.0	1461.0	1461.0
1651.0	5°	1624.0	1598.0	1548.0	1495.0	1434.0	1376.0	1318.0	1262.0	1244.0	1231.0
1693.1	7.5°	1656.0	1615.0	1536.0	1435.0	1319.0	1192.0	1103.0	1007.0	970.0	950.0
1749.1	10°	1702.1	1646.0	1526.0	1349.0	1161.0	988.0	861.0	757.0	717.0	700.0
1810.1	12.5°	1753.1	1684.1	1508.0	1242.0	988.0	781.0	657.0	609.0	603.0	603.0
1883.1	15°	1814.1	1730.1	1477.0	1116.0	807.0	618.0	574.0	576.0	582.0	586.0
1954.1	17.5°	1877.1	1779.1	1428.0	975.0	647.0	556.0	557.0	560.0	565.0	569.0
2031.1	20°	1945.1	1828.1	1363.0	825.0	555.0	538.0	541.0	544.0	548.0	550.0
2103.1	22.5°	2018.1	1874.1	1286.0	678.0	524.0	523.0	524.0	527.0	532.0	532.0
2187.1	25°	2096.1	1925.1	1198.0	571.0	508.0	508.0	510.0	512.0	516.0	516.0
2268.1	27.5°	2176.1	1972.1	1105.0	515.0	494.0	493.0	493.0	496.0	498.0	499.0
2348.1	30°	2264.1	2027.1	1012.0	503.0	483.0	478.0	475.0	477.0	479.0	480.0
2432.1	32.5°	2354.1	2080.1	929.0	508.0	472.0	463.0	453.0	451.0	451.0	455.0
2519.1	35°	2454.1	2138.1	865.0	525.0	466.0	441.0	425.0	416.0	417.0	423.0
2623.1	37.5°	2574.1	2208.1	818.0	540.0	462.0	416.0	390.0	379.0	372.0	379.0
2766.1	40°	2731.1	2311.1	784.0	552.0	457.0	387.0	352.0	334.0	321.0	325.0
2988.1	42.5°	2962.1	2473.1	771.0	553.0	446.0	353.0	313.0	289.0	270.0	271.0
3322.1	45°	3286.1	2729.1	838.0	540.0	422.0	316.0	272.0	240.0	228.0	225.0
3821.1	47.5°	3730.1	3102.1	993.0	513.0	387.0	280.0	232.0	205.0	196.0	191.0
4476.1	50°	4325.1	3581.1	1165.0	483.0	352.0	246.0	199.0	182.0	176.0	171.0
5253.2	52.5°	5015.2	4067.1	1306.0	453.0	317.0	216.0	178.0	168.0	163.0	159.0
6003.2	55°	5648.2	4402.1	1298.0	421.0	283.0	192.0	163.0	157.0	151.0	147.0
6649.2	57.5°	6042.2	4449.1	1070.0	386.0	244.0	173.0	149.0	145.0	138.0	133.0
7208.2	60°	6223.2	4181.1	750.0	340.0	205.0	155.0	134.0	132.0	123.0	116.0
7737.2	62.5°	6256.2	3683.1	500.0	283.0	171.0	138.0	119.0	116.0	104.0	92.0
8167.2	65°	6122.2	2971.1	346.0	221.0	146.0	120.0	102.0	96.0	83.0	71.0
8269.2	67.5°	5698.2	2086.1	241.0	159.0	124.0	95.0	81.0	79.0	69.0	59.0
7749.2	70°	4921.1	1189.0	161.0	119.0	98.0	65.0	64.0	66.0	56.0	48.0
6331.2	72.5°	3773.1	544.0	100.0	87.0	67.0	44.0	51.0	52.0	43.0	36.0
3950.1	75°	2221.1	233.0	63.0	56.0	34.0	29.0	37.0	38.0	29.0	23.0
1444.0	77.5°	756.0	88.0	40.0	33.0	17.0	16.0	24.0	24.0	16.0	9.0
290.0	80°	172.0	33.0	20.0	13.0	8.0	7.0	8.0	7.0	4.0	1.0
89.0	82.5°	49.0	13.0	8.0	5.0	3.0	3.0	1.0	0.0	0.0	0.0
31.0	85°	14.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
11.0	87.5°	6.0	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>
1605.0
1466.0
1237.0
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569.0
551.0
534.0
517.0
500.0
482.0
458.0
426.0
377.0
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267.0
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188.0
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