

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: P950708

Luminaire Tested: **GALN-SB5A-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950708  
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-SB5A-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

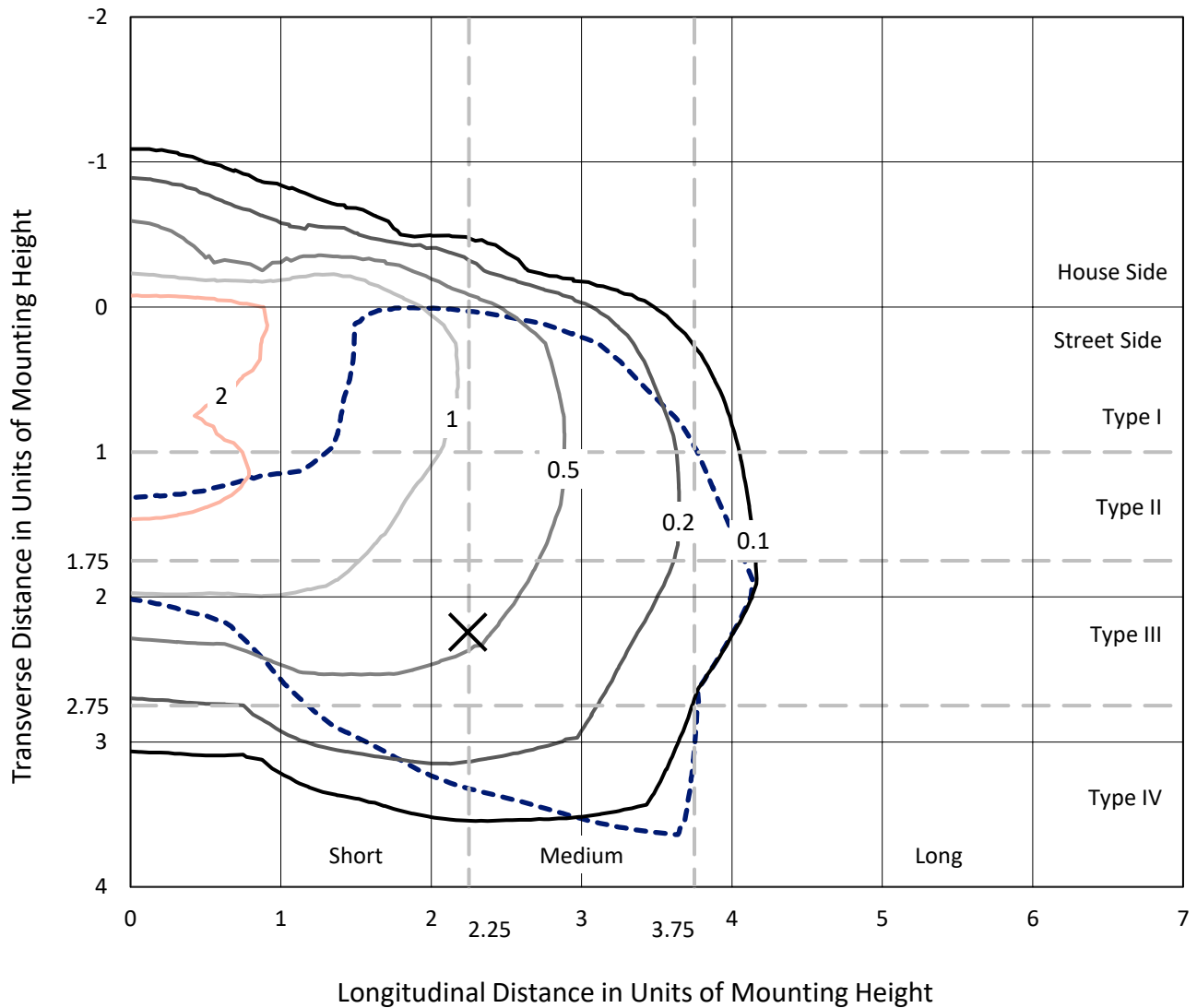
Lumens per Lamp: N/A  
Luminaire Lumens: 15178 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

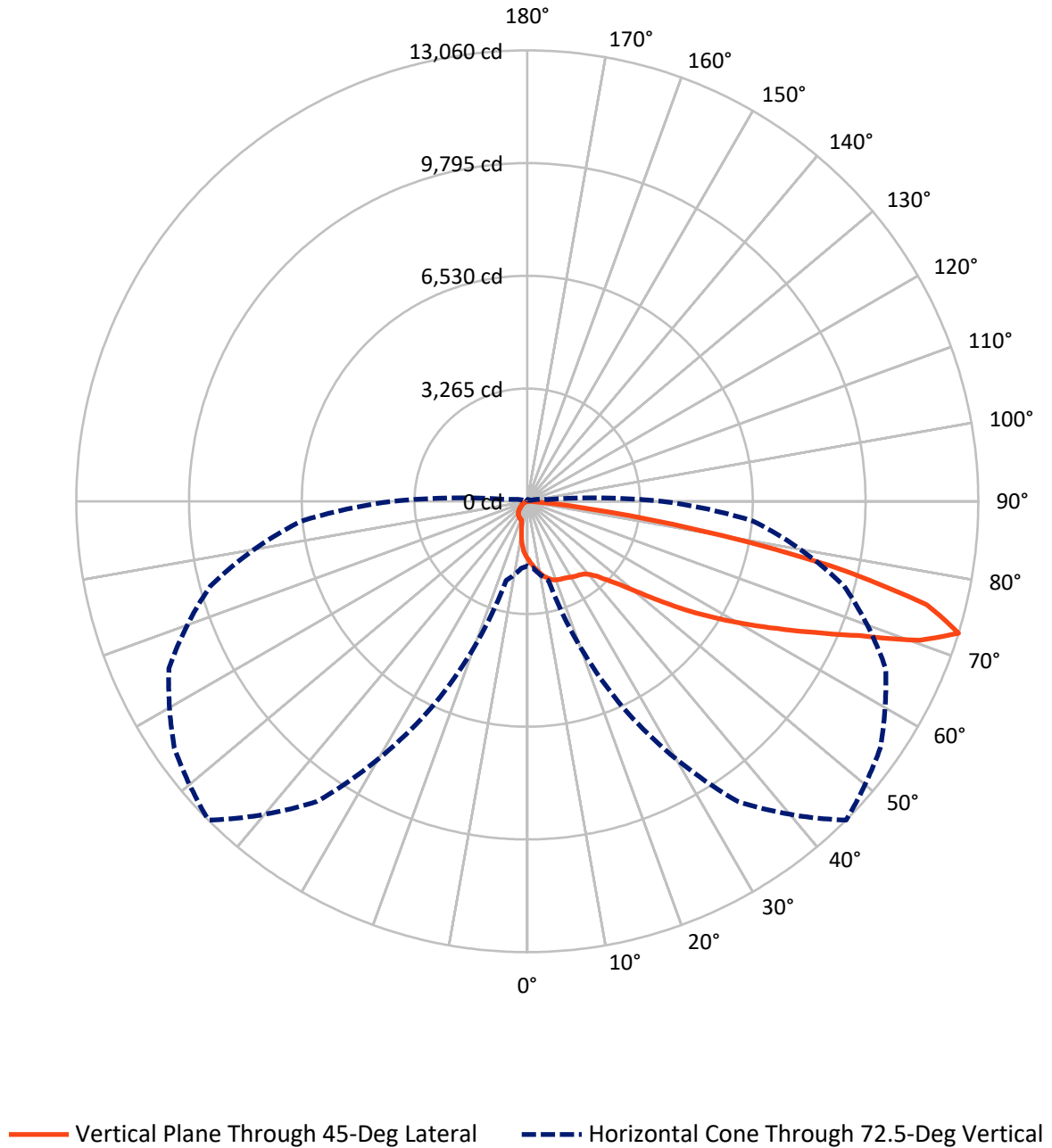
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1594.8	0.0	1594.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	13583.2	0.0	13583.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	15178.0	0.0	15178.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.7	1.0
10°-20°	457.9	3.0
20°-30°	751.9	5.0
30°-40°	1066.4	7.0
40°-50°	1762.6	11.6
50°-60°	3166.3	20.9
60°-70°	4396.6	29.0
70°-80°	3189.1	21.0
80°-90°	230.6	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°	15178.0	100.0
0°-180°	15178.0	100.0

**Coefficient of Utilization**



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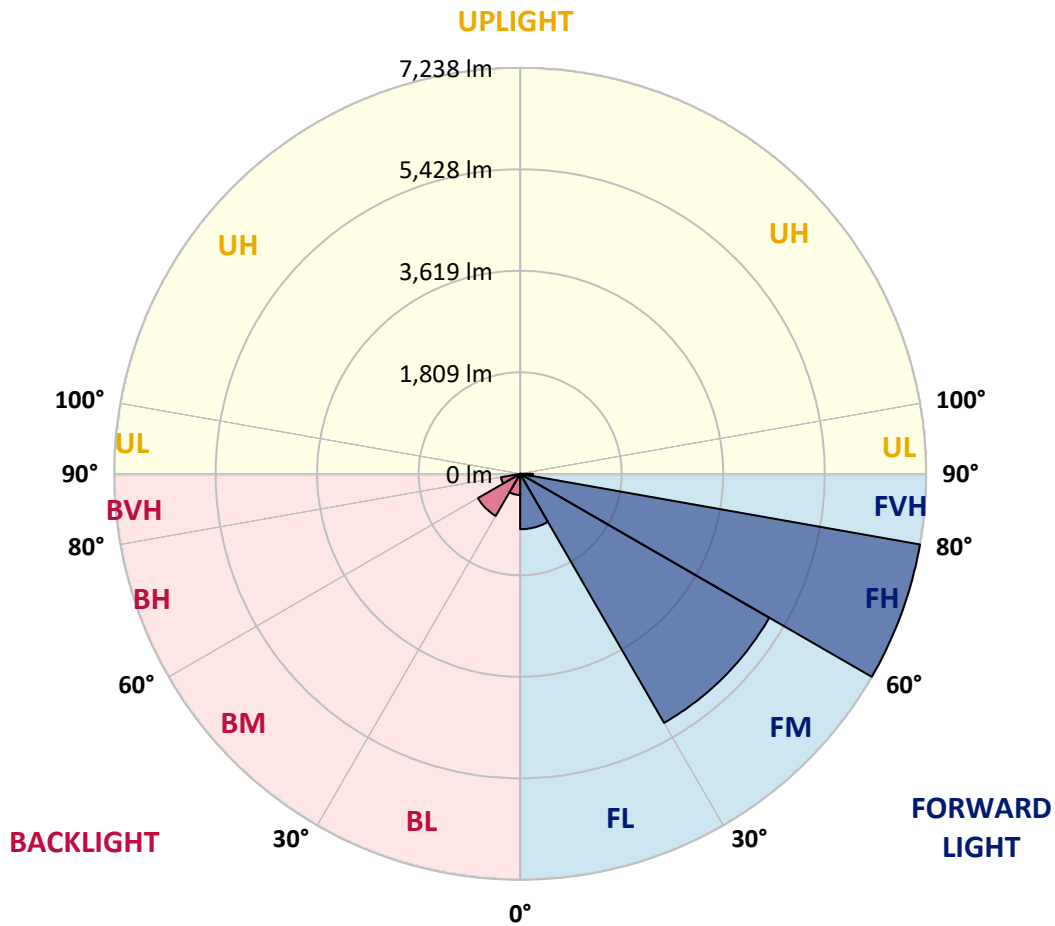
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.7	6.5			
FM (30°-60°)	5127.9	33.8			
FH (60°-80°)	7238.0	47.7			G3/7500
FVH (80°-90°)	228.6	1.5			G3/500
BL (0°-30°)	377.7	2.5	B1/500		
BM (30°-60°)	867.3	5.7	B1/1000		
BH (60°-80°)	347.8	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°	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8
2.5°	1816.1	1819.2	1817.1	1804.7	1784.0	1772.6	1766.4	1745.7	1732.2	1708.4
5°	1982.9	1995.3	1988.1	1963.2	1923.9	1895.9	1887.6	1845.1	1806.8	1762.2
7.5°	2160.1	2166.3	2152.8	2120.7	2067.9	2020.2	2013.0	1953.9	1892.8	1824.4
10°	2313.4	2320.6	2299.9	2253.3	2193.2	2134.2	2123.8	2058.5	1986.0	1902.1
12.5°	2441.9	2449.1	2422.2	2366.2	2299.9	2238.8	2228.4	2160.1	2080.3	1987.1
15°	2539.2	2552.7	2516.4	2456.4	2384.9	2323.8	2318.6	2251.2	2173.5	2069.9
17.5°	2596.2	2609.7	2575.5	2503.0	2441.9	2390.1	2383.8	2327.9	2255.4	2155.9
20°	2605.5	2618.0	2581.7	2518.5	2467.8	2426.3	2423.2	2382.8	2330.0	2234.7
22.5°	2577.6	2593.1	2560.0	2509.2	2474.0	2452.2	2448.1	2425.3	2395.2	2314.4
25°	2548.6	2561.0	2536.1	2491.6	2472.9	2470.9	2474.0	2469.8	2463.6	2395.2
27.5°	2546.5	2560.0	2532.0	2489.5	2479.2	2500.9	2504.0	2523.7	2528.9	2468.8
30°	2564.1	2573.4	2546.5	2501.9	2496.8	2546.5	2547.5	2582.8	2591.0	2531.0
32.5°	2602.4	2612.8	2585.9	2520.6	2513.3	2582.8	2585.9	2632.5	2645.9	2597.3
35°	2692.6	2705.0	2673.9	2572.4	2546.5	2616.9	2626.3	2681.2	2708.1	2667.7
37.5°	2917.4	2881.1	2838.6	2677.0	2622.1	2670.8	2686.4	2750.6	2798.2	2751.6
40°	3475.8	3361.8	3229.2	2855.2	2754.7	2785.8	2798.2	2862.5	2927.7	2882.2
42.5°	4313.9	4179.2	3965.8	3265.5	2954.7	2970.2	2979.5	3035.5	3127.7	3091.4
45°	5060.9	5012.2	4794.6	3965.8	3328.7	3252.0	3263.4	3292.4	3428.1	3414.7
47.5°	5634.8	5606.8	5439.0	4769.8	3960.6	3597.0	3629.1	3642.6	3838.4	3886.0
50°	6076.1	6065.8	5915.6	5484.6	4786.3	4105.7	4117.1	4088.1	4381.2	4499.4
52.5°	6492.6	6527.8	6417.0	6148.7	5668.0	4771.8	4769.8	4633.0	5028.8	5206.9
55°	6868.7	6881.1	6892.5	6826.2	6554.8	5530.2	5510.5	5286.7	5779.9	5964.3
57.5°	7222.0	7227.1	7328.7	7464.4	7477.9	6344.5	6308.2	6039.9	6600.4	6731.9
60°	7459.2	7483.0	7697.5	8074.6	8239.3	7184.7	7165.0	6891.5	7435.4	7496.5
62.5°	7117.3	7262.4	7803.2	8551.2	8958.3	8116.0	8106.7	7849.8	8313.9	8264.2
65°	5761.2	6006.7	6957.8	8873.4	9663.8	9156.2	9169.6	8896.1	9216.3	9054.7
67.5°	4030.0	4289.0	5414.1	8899.3	10452.2	10377.6	10455.3	10026.4	10174.6	9812.0
70°	2786.8	2920.5	3652.9	8341.9	11066.6	12060.1	12058.0	11414.7	11127.7	10157.0
72.5°	1874.1	1943.5	2372.4	6618.0	10614.9	13059.8	12999.7	12475.5	11448.9	9499.1
75°	790.5	841.2	1098.2	3719.2	8397.8	11948.2	11785.6	11025.1	10172.5	7479.9
77.5°	250.7	272.5	433.0	1331.3	4625.7	8981.1	8809.1	6885.3	6817.9	3752.4
80°	119.1	138.8	243.5	534.6	1820.3	4884.7	4860.9	3123.5	2932.9	1013.2
82.5°	51.8	61.1	134.7	285.9	814.3	1742.6	1777.8	1062.9	879.6	384.4
85°	16.6	21.8	62.2	131.6	344.0	433.0	427.9	252.8	354.3	209.3
87.5°	0.0	0.0	20.7	30.0	35.2	24.9	28.0	21.8	98.4	58.0
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°
1662.8	0°	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8
1683.5	2.5°	1671.1	1654.5	1625.5	1598.6	1574.7	1550.9	1536.4	1515.7	1513.6	1513.6
1710.4	5°	1682.5	1655.5	1603.7	1548.8	1485.6	1425.5	1365.4	1307.4	1288.8	1275.3
1754.0	7.5°	1715.6	1673.1	1591.3	1486.7	1366.5	1234.9	1142.7	1043.3	1004.9	984.2
1812.0	10°	1763.3	1705.3	1580.9	1397.6	1202.8	1023.6	892.0	784.3	742.8	725.2
1875.2	12.5°	1816.1	1744.6	1562.3	1286.7	1023.6	809.1	680.7	630.9	624.7	624.7
1950.8	15°	1879.3	1792.3	1530.2	1156.2	836.1	640.2	594.7	596.7	603.0	607.1
2024.3	17.5°	1944.6	1843.0	1479.4	1010.1	670.3	576.0	577.1	580.2	585.3	589.5
2104.1	20°	2015.0	1893.8	1412.1	854.7	575.0	557.4	560.5	563.6	567.7	569.8
2178.7	22.5°	2090.7	1941.5	1332.3	702.4	542.9	541.8	542.9	546.0	551.2	551.2
2265.7	25°	2171.5	1994.3	1241.1	591.6	526.3	526.3	528.4	530.4	534.6	534.6
2349.7	27.5°	2254.3	2043.0	1144.8	533.5	511.8	510.7	510.7	513.9	515.9	517.0
2432.5	30°	2345.5	2100.0	1048.4	521.1	500.4	495.2	492.1	494.2	496.2	497.3
2519.6	32.5°	2438.7	2154.9	962.4	526.3	489.0	479.7	469.3	467.2	467.2	471.4
2609.7	35°	2542.3	2215.0	896.1	543.9	482.8	456.9	440.3	431.0	432.0	438.2
2717.4	37.5°	2666.7	2287.5	847.4	559.4	478.6	431.0	404.0	392.6	385.4	392.6
2865.6	40°	2829.3	2394.2	812.2	571.9	473.5	400.9	364.7	346.0	332.6	336.7
3095.6	42.5°	3068.6	2562.0	798.8	572.9	462.1	365.7	324.3	299.4	279.7	280.8
3441.6	45°	3404.3	2827.2	868.2	559.4	437.2	327.4	281.8	248.6	236.2	233.1
3958.6	47.5°	3864.3	3213.7	1028.7	531.5	400.9	290.1	240.4	212.4	203.1	197.9
4637.1	50°	4480.7	3709.9	1206.9	500.4	364.7	254.9	206.2	188.6	182.3	177.2
5442.1	52.5°	5195.5	4213.4	1353.0	469.3	328.4	223.8	184.4	174.0	168.9	164.7
6219.1	55°	5851.3	4560.5	1344.7	436.2	293.2	198.9	168.9	162.7	156.4	152.3
6888.4	57.5°	6259.5	4609.2	1108.5	399.9	252.8	179.2	154.4	150.2	143.0	137.8
7467.5	60°	6447.0	4331.5	777.0	352.2	212.4	160.6	138.8	136.8	127.4	120.2
8015.5	62.5°	6481.2	3815.6	518.0	293.2	177.2	143.0	123.3	120.2	107.7	95.3
8461.0	65°	6342.4	3078.0	358.5	229.0	151.3	124.3	105.7	99.5	86.0	73.6
8566.7	67.5°	5903.1	2161.1	249.7	164.7	128.5	98.4	83.9	81.8	71.5	61.1
8028.0	70°	5098.2	1231.8	166.8	123.3	101.5	67.3	66.3	68.4	58.0	49.7
6558.9	72.5°	3908.8	563.6	103.6	90.1	69.4	45.6	52.8	53.9	44.5	37.3
4092.2	75°	2301.0	241.4	65.3	58.0	35.2	30.0	38.3	39.4	30.0	23.8
1496.0	77.5°	783.2	91.2	41.4	34.2	17.6	16.6	24.9	24.9	16.6	9.3
300.4	80°	178.2	34.2	20.7	13.5	8.3	7.3	8.3	7.3	4.1	1.0
92.2	82.5°	50.8	13.5	8.3	5.2	3.1	3.1	1.0	0.0	0.0	0.0
32.1	85°	14.5	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
11.4	87.5°	6.2	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

(END O

<u>180°</u>
1662.8
1518.8
1281.5
987.3
725.2
624.7
607.1
589.5
570.8
553.2
535.6
518.0
499.4
474.5
441.3
390.6
334.6
276.6
229.0
194.8
176.1
163.7
150.2
136.8
118.1
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