

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: P948587

Luminaire Tested: **GALN-SB3C-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948587  
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-SB3C-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

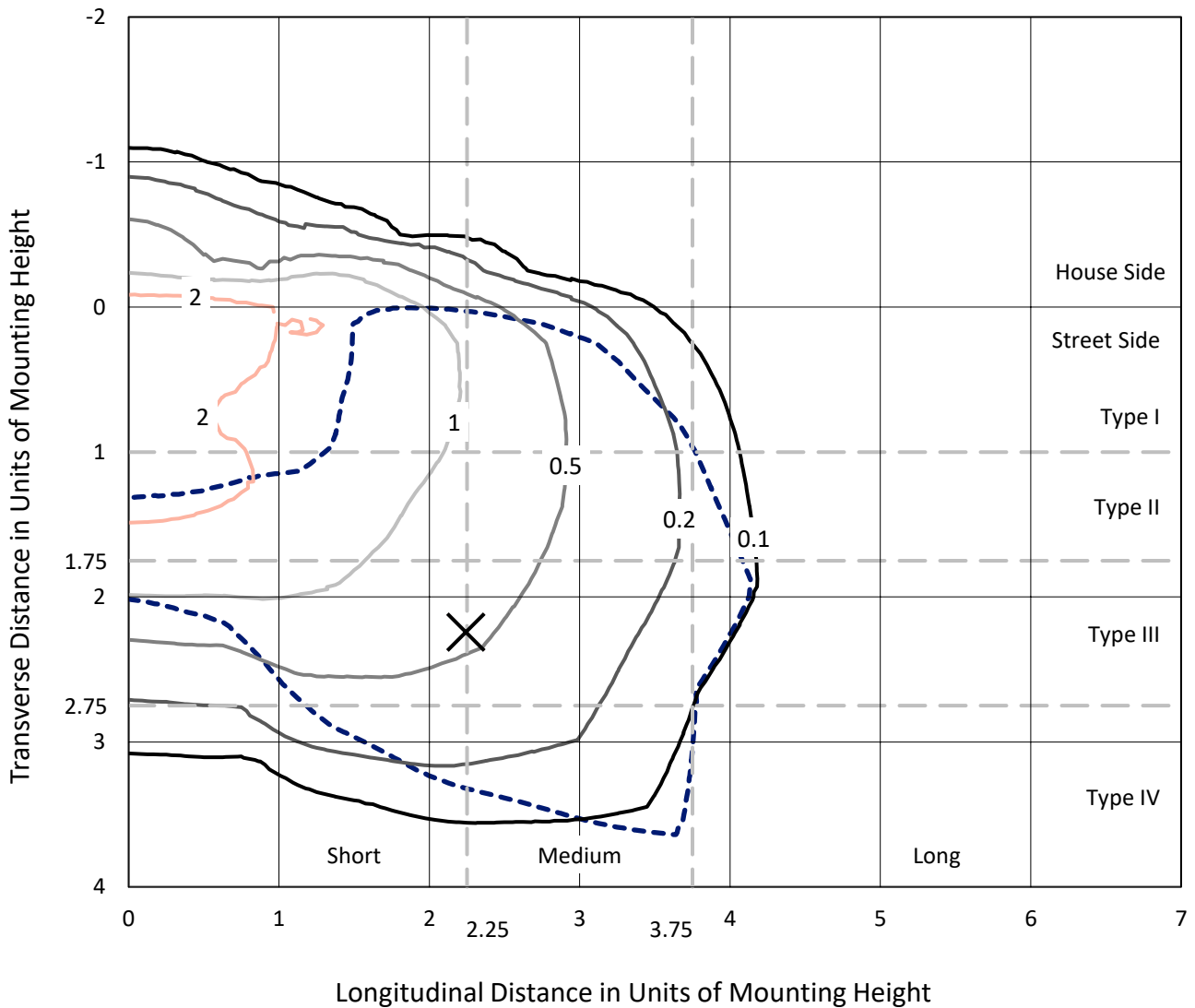
Lumens per Lamp: N/A  
Luminaire Lumens: 15552 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

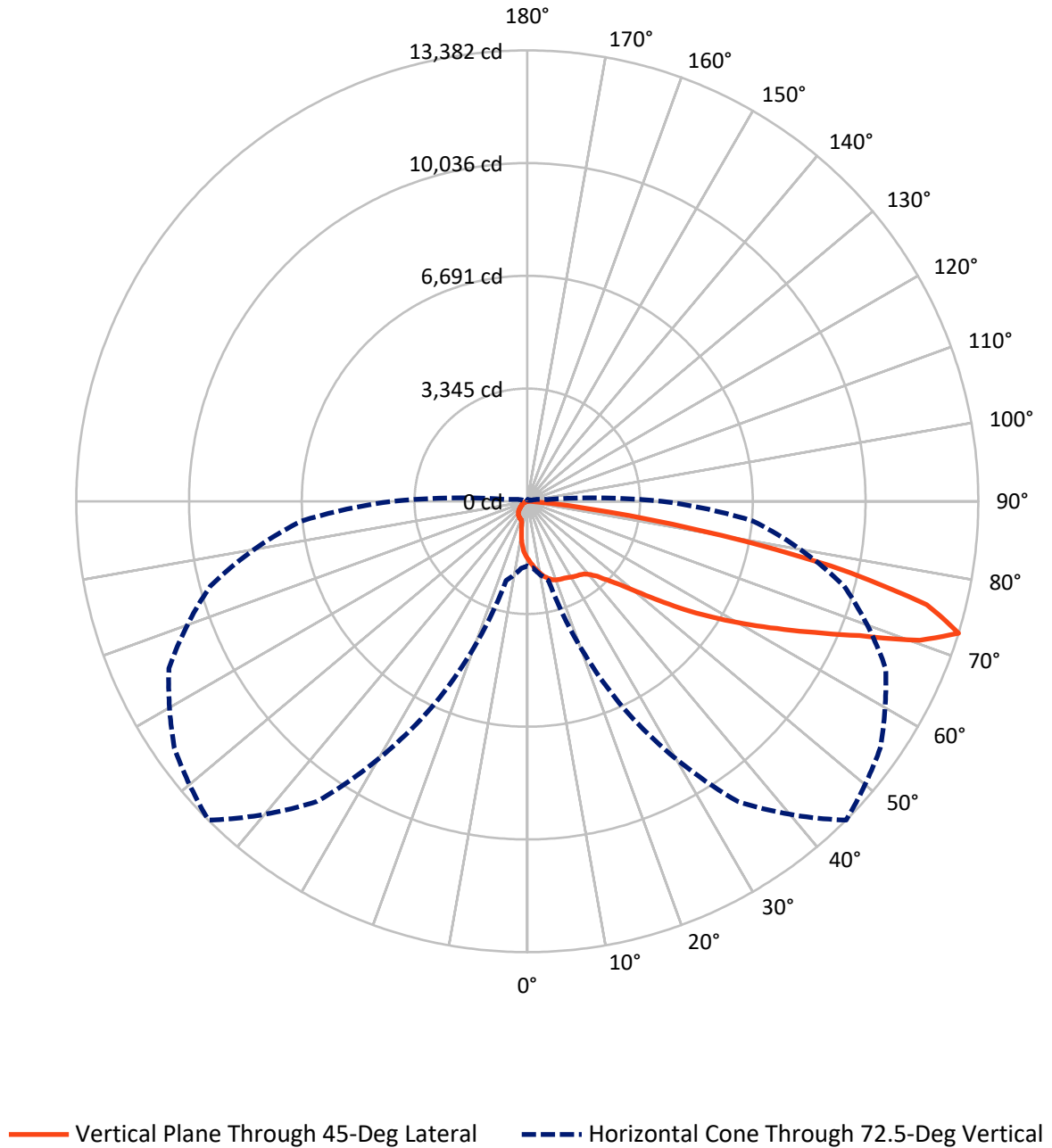
× Max cd  
 - - - 1/2 Max cd



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	1634.1	0.0	1634.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	13917.9	0.0	13917.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	15552.0	0.0	15552.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.5	1.0
10°-20°	469.2	3.0
20°-30°	770.4	5.0
30°-40°	1092.6	7.0
40°-50°	1806.0	11.6
50°-60°	3244.3	20.9
60°-70°	4504.9	29.0
70°-80°	3267.7	21.0
80°-90°	236.2	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°	15552.0	100.0
0°-180°	15552.0	100.0

**Coefficient of Utilization**



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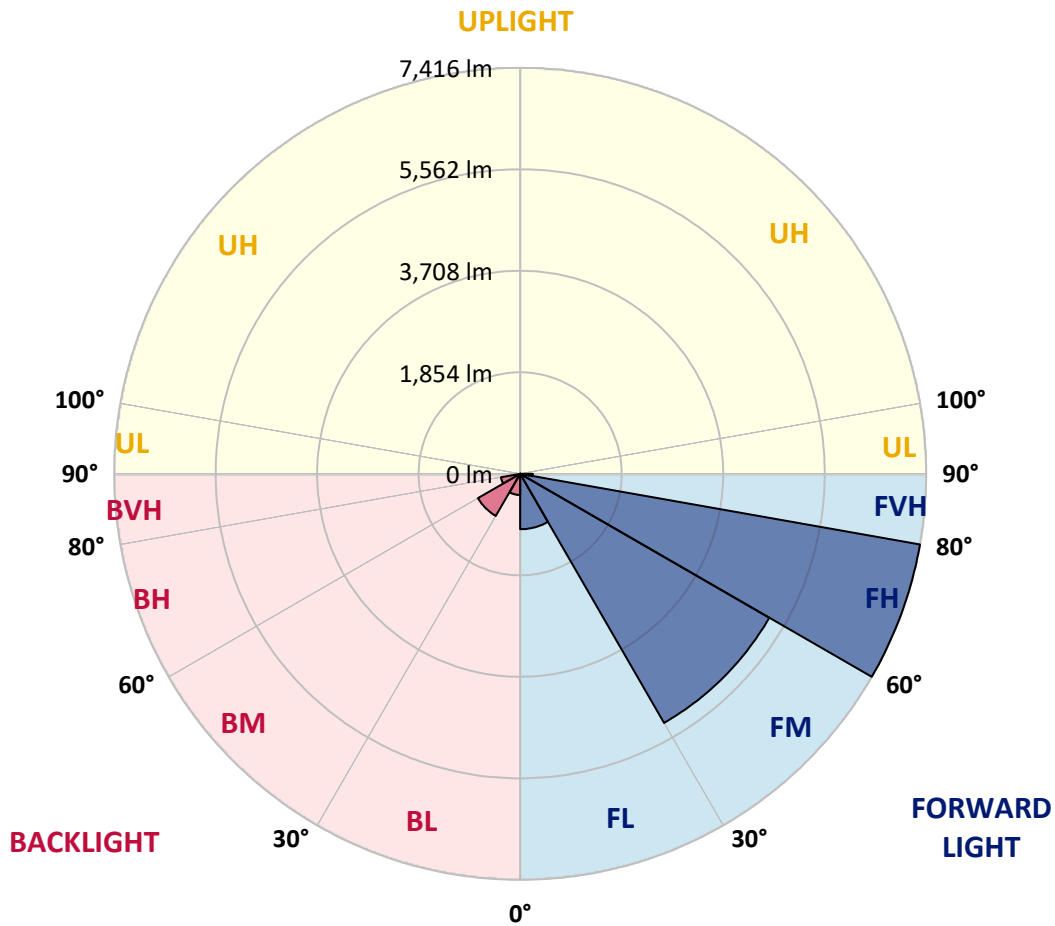
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.1	6.5			
FM (30°-60°)	5254.3	33.8			
FH (60°-80°)	7416.3	47.7			G3/7500
FVH (80°-90°)	234.3	1.5			G3/500
BL (0°-30°)	387.0	2.5	B1/500		
BM (30°-60°)	888.7	5.7	B1/1000		
BH (60°-80°)	356.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8
2.5°	1860.9	1864.0	1861.9	1849.2	1828.0	1816.3	1809.9	1788.7	1774.9	1750.5
5°	2031.8	2044.5	2037.1	2011.6	1971.3	1942.6	1934.1	1890.6	1851.3	1805.7
7.5°	2213.3	2219.7	2205.9	2173.0	2118.8	2070.0	2062.6	2002.0	1939.4	1869.4
10°	2370.4	2377.8	2356.6	2308.8	2247.3	2186.8	2176.1	2109.3	2035.0	1949.0
12.5°	2502.0	2509.5	2481.9	2424.5	2356.6	2294.0	2283.3	2213.3	2131.6	2036.0
15°	2601.8	2615.6	2578.5	2516.9	2443.6	2381.0	2375.7	2306.7	2227.1	2120.9
17.5°	2660.2	2674.0	2639.0	2564.7	2502.0	2448.9	2442.6	2385.3	2310.9	2209.0
20°	2669.7	2682.5	2645.3	2580.6	2528.6	2486.1	2482.9	2441.5	2387.4	2289.7
22.5°	2641.1	2657.0	2623.0	2571.0	2534.9	2512.6	2508.4	2485.0	2454.3	2371.5
25°	2611.4	2624.1	2598.6	2553.0	2533.9	2531.7	2534.9	2530.7	2524.3	2454.3
27.5°	2609.2	2623.0	2594.4	2550.9	2540.2	2562.5	2565.7	2585.9	2591.2	2529.6
30°	2627.3	2636.8	2609.2	2563.6	2558.3	2609.2	2610.3	2646.4	2654.9	2593.3
32.5°	2666.6	2677.2	2649.6	2582.7	2575.3	2646.4	2649.6	2697.3	2711.1	2661.3
35°	2758.9	2771.7	2739.8	2635.8	2609.2	2681.4	2691.0	2747.2	2774.8	2733.4
37.5°	2989.3	2952.1	2908.6	2743.0	2686.7	2736.6	2752.5	2818.4	2867.2	2819.4
40°	3561.4	3444.7	3308.8	2925.6	2822.6	2854.5	2867.2	2933.0	2999.9	2953.2
42.5°	4420.2	4282.2	4063.5	3345.9	3027.5	3043.4	3053.0	3110.3	3204.8	3167.6
45°	5185.6	5135.7	4912.8	4063.5	3410.7	3332.1	3343.8	3373.5	3512.6	3498.8
47.5°	5773.7	5745.0	5573.0	4887.3	4058.2	3685.6	3718.5	3732.3	3933.0	3981.8
50°	6225.9	6215.3	6061.3	5619.7	4904.3	4206.8	4218.5	4188.8	4489.2	4610.2
52.5°	6652.6	6688.7	6575.1	6300.2	5807.6	4889.4	4887.3	4747.2	5152.7	5335.2
55°	7037.9	7050.7	7062.4	6994.4	6716.3	5666.4	5646.3	5417.0	5922.3	6111.2
57.5°	7399.9	7405.2	7509.3	7648.3	7662.1	6500.8	6463.7	6188.7	6763.0	6897.8
60°	7643.0	7667.4	7887.2	8273.6	8442.3	7361.7	7341.5	7061.3	7618.6	7681.2
62.5°	7292.7	7441.3	7995.4	8761.9	9179.0	8316.0	8306.5	8043.2	8518.8	8467.8
65°	5903.2	6154.7	7129.2	9092.0	9901.9	9381.8	9395.6	9115.4	9443.4	9277.8
67.5°	4129.3	4394.7	5547.6	9118.5	10709.8	10633.3	10713.0	10273.5	10425.3	10053.7
70°	2855.5	2992.5	3743.0	8547.4	11339.3	12357.3	12355.1	11695.9	11401.9	10407.2
72.5°	1920.3	1991.4	2430.9	6781.0	10876.4	13381.6	13320.1	12782.9	11731.0	9733.2
75°	809.9	862.0	1125.2	3810.9	8604.8	12242.6	12076.0	11296.8	10423.2	7664.2
77.5°	256.9	279.2	443.7	1364.1	4739.7	9202.4	9026.2	7054.9	6985.9	3844.9
80°	122.1	142.2	249.5	547.7	1865.1	5005.1	4980.7	3200.5	3005.2	1038.2
82.5°	53.1	62.6	138.0	293.0	834.4	1785.5	1821.6	1089.1	901.2	393.8
85°	17.0	22.3	63.7	134.8	352.4	443.7	438.4	259.0	363.0	214.4
87.5°	0.0	0.0	21.2	30.8	36.1	25.5	28.7	22.3	100.8	59.4
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°
1703.8	0°	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8	1703.8
1725.0	2.5°	1712.2	1695.3	1665.5	1637.9	1613.5	1589.1	1574.2	1553.0	1550.9	1550.9
1752.6	5°	1723.9	1696.3	1643.2	1587.0	1522.2	1460.7	1399.1	1339.7	1320.5	1306.7
1797.2	7.5°	1757.9	1714.4	1630.5	1523.3	1400.2	1265.3	1170.9	1069.0	1029.7	1008.5
1856.6	10°	1806.7	1747.3	1619.9	1432.0	1232.4	1048.8	914.0	803.6	761.1	743.1
1921.4	12.5°	1860.9	1787.6	1600.8	1318.4	1048.8	829.1	697.4	646.5	640.1	640.1
1998.9	15°	1925.6	1836.4	1567.9	1184.7	856.7	656.0	609.3	611.4	617.8	622.1
2074.2	17.5°	1992.5	1888.5	1515.9	1035.0	686.8	590.2	591.3	594.5	599.8	604.0
2156.0	20°	2064.7	1940.5	1446.9	875.8	589.1	571.1	574.3	577.5	581.7	583.8
2232.4	22.5°	2142.2	1989.3	1365.1	719.7	556.2	555.2	556.2	559.4	564.7	564.7
2321.6	25°	2225.0	2043.4	1271.7	606.1	539.3	539.3	541.4	543.5	547.7	547.7
2407.5	27.5°	2309.9	2093.3	1173.0	546.7	524.4	523.3	523.3	526.5	528.6	529.7
2492.5	30°	2403.3	2151.7	1074.3	533.9	512.7	507.4	504.2	506.3	508.5	509.5
2581.6	32.5°	2498.8	2208.0	986.2	539.3	501.0	491.5	480.9	478.7	478.7	483.0
2674.0	35°	2605.0	2269.5	918.2	557.3	494.7	468.1	451.1	441.6	442.7	449.0
2784.4	37.5°	2732.4	2343.9	868.3	573.2	490.4	441.6	414.0	402.3	394.9	402.3
2936.2	40°	2899.0	2453.2	832.2	586.0	485.1	410.8	373.7	354.6	340.8	345.0
3171.8	42.5°	3144.3	2625.2	818.4	587.0	473.4	374.7	332.3	306.8	286.6	287.7
3526.4	45°	3488.2	2896.9	889.6	573.2	448.0	335.4	288.7	254.8	242.0	238.8
4056.1	47.5°	3959.5	3292.9	1054.1	544.6	410.8	297.2	246.3	217.6	208.1	202.8
4751.4	50°	4591.1	3801.3	1236.7	512.7	373.7	261.1	211.2	193.2	186.8	181.5
5576.2	52.5°	5323.6	4317.2	1386.4	480.9	336.5	229.3	189.0	178.3	173.0	168.8
6372.4	55°	5995.5	4672.9	1377.9	446.9	300.4	203.8	173.0	166.7	160.3	156.0
7058.1	57.5°	6413.8	4722.7	1135.8	409.8	259.0	183.6	158.2	153.9	146.5	141.2
7651.5	60°	6605.9	4438.3	796.1	360.9	217.6	164.5	142.2	140.1	130.6	123.1
8213.1	62.5°	6640.9	3909.6	530.8	300.4	181.5	146.5	126.3	123.1	110.4	97.7
8669.5	65°	6498.7	3153.8	367.3	234.6	155.0	127.4	108.3	101.9	88.1	75.4
8777.8	67.5°	6048.6	2214.4	255.8	168.8	131.6	100.8	86.0	83.9	73.2	62.6
8225.8	70°	5223.8	1262.2	170.9	126.3	104.0	69.0	67.9	70.1	59.4	51.0
6720.5	72.5°	4005.2	577.5	106.2	92.4	71.1	46.7	54.1	55.2	45.6	38.2
4193.0	75°	2357.7	247.3	66.9	59.4	36.1	30.8	39.3	40.3	30.8	24.4
1532.8	77.5°	802.5	93.4	42.5	35.0	18.0	17.0	25.5	25.5	17.0	9.6
307.8	80°	182.6	35.0	21.2	13.8	8.5	7.4	8.5	7.4	4.2	1.1
94.5	82.5°	52.0	13.8	8.5	5.3	3.2	3.2	1.1	0.0	0.0	0.0
32.9	85°	14.9	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	6.4	1.1	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>
1703.8
1556.2
1313.1
1011.6
743.1
640.1
622.1
604.0
584.9
566.9
548.8
530.8
511.7
486.2
452.2
400.2
342.9
283.4
234.6
199.6
180.5
167.7
153.9
140.1
121.0
91.3
71.1
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