

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: P951233

Luminaire Tested: **GALN-SB5B-940-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951233  
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-SB5B-940-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

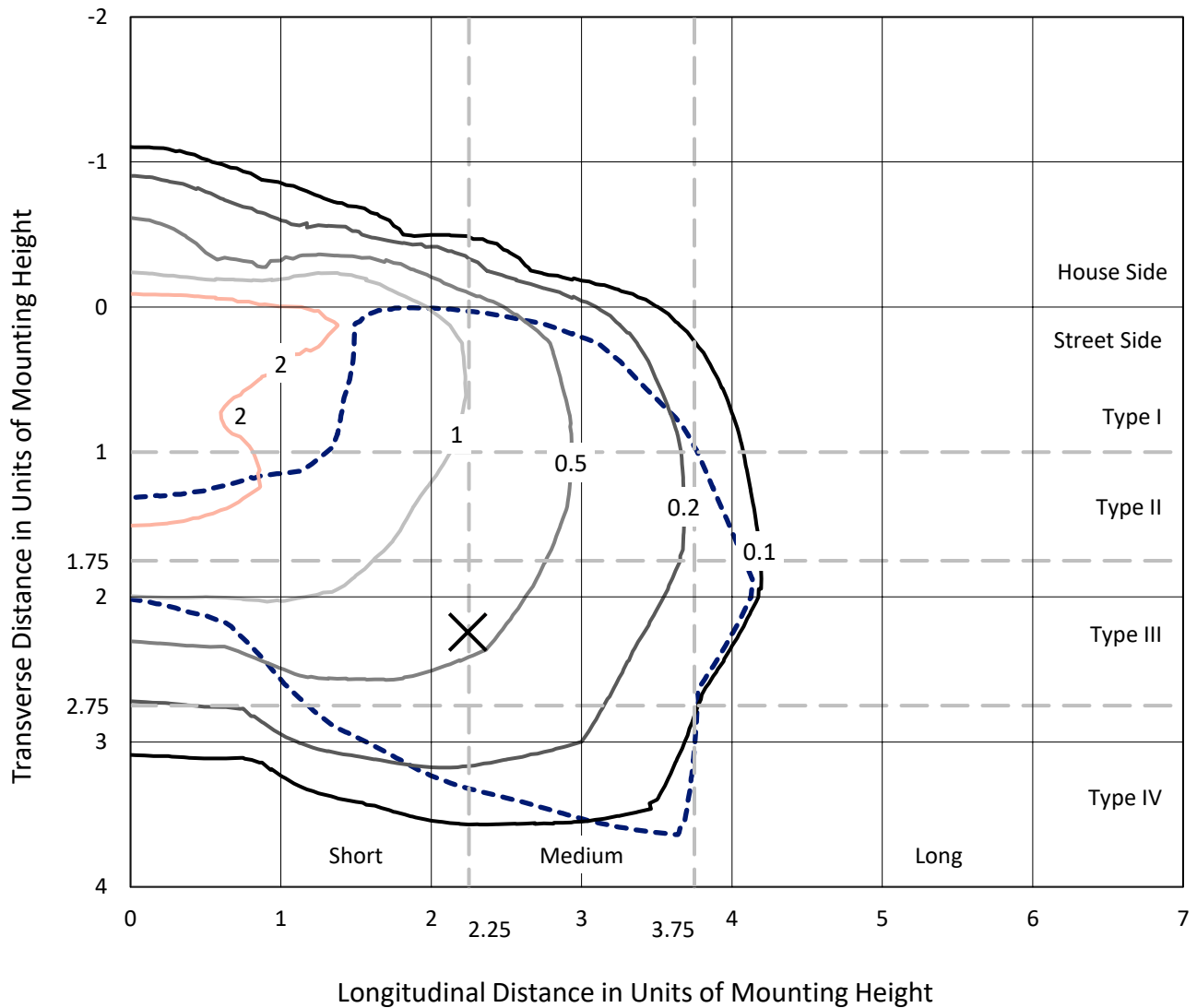
Lumens per Lamp: N/A  
Luminaire Lumens: 15877 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

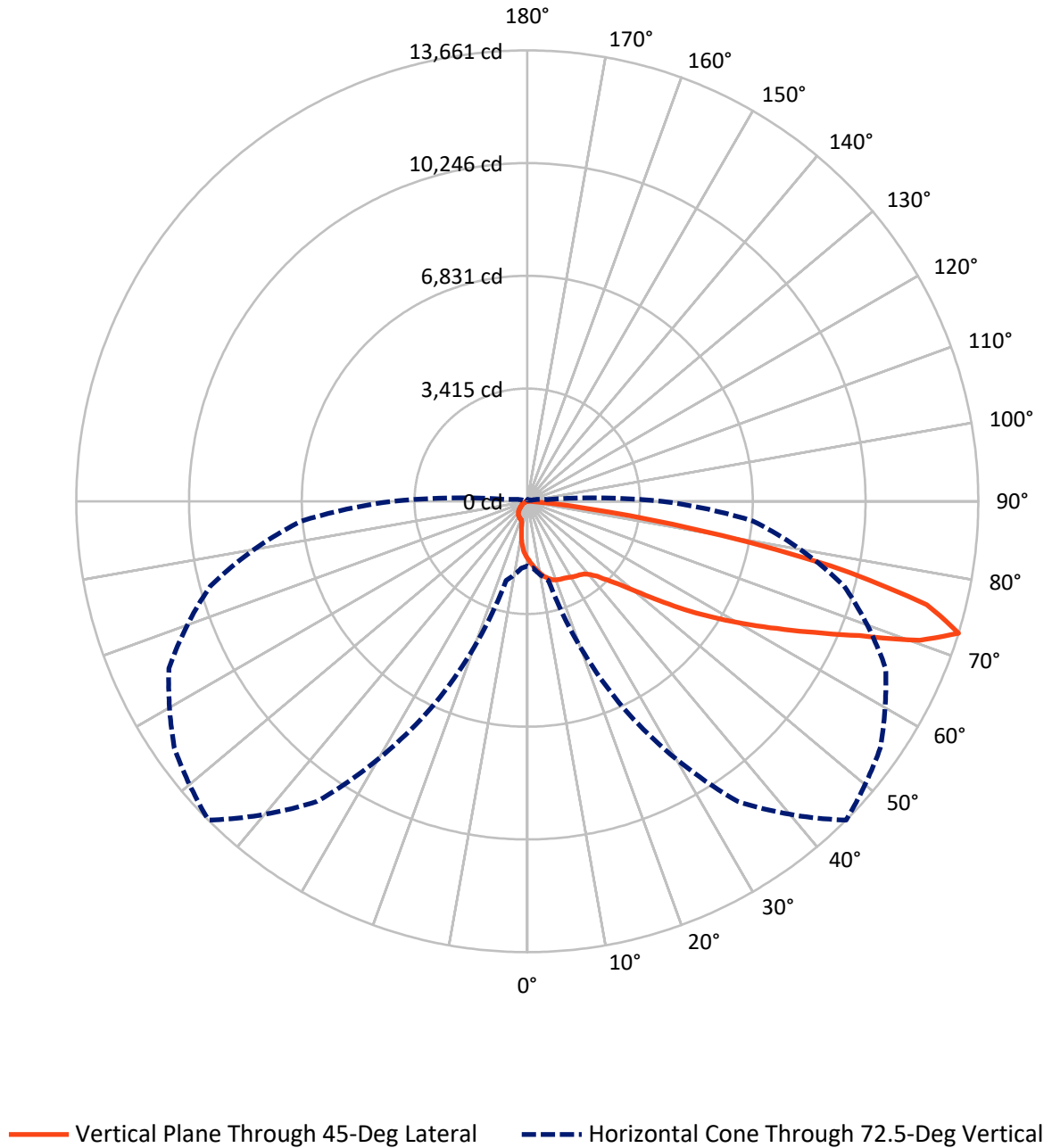
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1668.2	0.0	1668.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	14208.8	0.0	14208.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	15877.0	0.0	15877.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.9	1.0
10°-20°	479.0	3.0
20°-30°	786.5	5.0
30°-40°	1115.5	7.0
40°-50°	1843.8	11.6
50°-60°	3312.1	20.9
60°-70°	4599.1	29.0
70°-80°	3336.0	21.0
80°-90°	241.2	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°	15877.0	100.0
0°-180°	15877.0	100.0

**Coefficient of Utilization**



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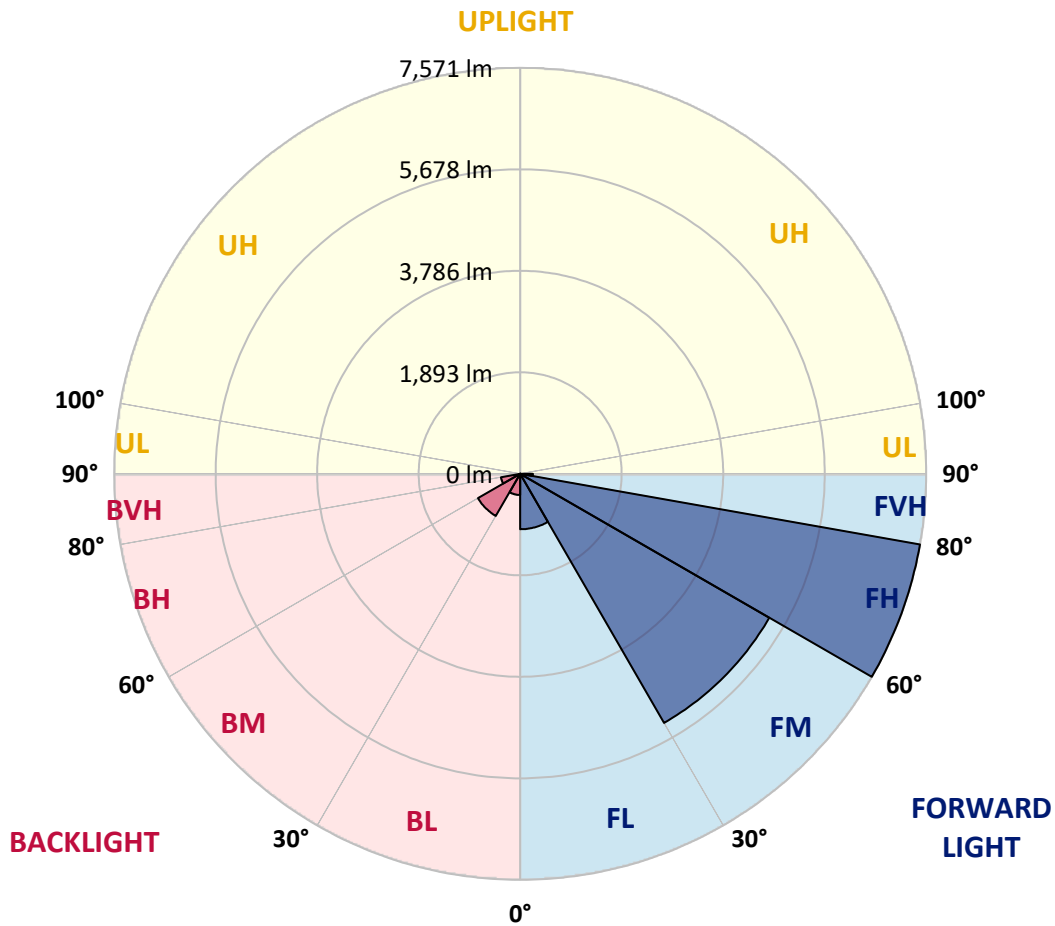
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.2	6.5			
FM (30°-60°)	5364.1	33.8			
FH (60°-80°)	7571.3	47.7			G4/12000
FVH (80°-90°)	239.2	1.5			G3/500
BL (0°-30°)	395.1	2.5	B1/500		
BM (30°-60°)	907.3	5.7	B1/1000		
BH (60°-80°)	363.8	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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4
2.5°	1899.7	1903.0	1900.8	1887.8	1866.2	1854.2	1847.7	1826.1	1812.0	1787.0
5°	2074.2	2087.2	2079.6	2053.6	2012.5	1983.2	1974.5	1930.1	1890.0	1843.4
7.5°	2259.5	2266.0	2252.0	2218.4	2163.1	2113.2	2105.7	2043.9	1979.9	1908.4
10°	2419.9	2427.5	2405.8	2357.1	2294.2	2232.4	2221.6	2153.3	2077.5	1989.7
12.5°	2554.3	2561.9	2533.7	2475.2	2405.8	2341.9	2331.1	2259.5	2176.1	2078.6
15°	2656.2	2670.3	2632.3	2569.5	2494.7	2430.8	2425.3	2354.9	2273.6	2165.3
17.5°	2715.8	2729.9	2694.1	2618.3	2554.3	2500.1	2493.6	2435.1	2359.2	2255.2
20°	2725.5	2738.5	2700.6	2634.5	2581.4	2538.1	2534.8	2492.5	2437.3	2337.6
22.5°	2696.3	2712.5	2677.9	2624.8	2587.9	2565.1	2560.8	2537.0	2505.5	2421.0
25°	2665.9	2678.9	2652.9	2606.3	2586.8	2584.7	2587.9	2583.6	2577.1	2505.5
27.5°	2663.8	2677.9	2648.6	2604.2	2593.3	2616.1	2619.3	2639.9	2645.3	2582.5
30°	2682.2	2691.9	2663.8	2617.2	2611.7	2663.8	2664.8	2701.7	2710.4	2647.5
32.5°	2722.3	2733.1	2704.9	2636.7	2629.1	2701.7	2704.9	2753.7	2767.8	2716.9
35°	2816.6	2829.6	2797.1	2690.9	2663.8	2737.5	2747.2	2804.6	2832.8	2790.6
37.5°	3051.7	3013.8	2969.4	2800.3	2742.9	2793.8	2810.1	2877.3	2927.1	2878.3
40°	3635.9	3516.6	3377.9	2986.7	2881.6	2914.1	2927.1	2994.3	3062.6	3014.9
42.5°	4512.6	4371.7	4148.5	3415.9	3090.7	3107.0	3116.8	3175.3	3271.7	3233.8
45°	5293.9	5243.0	5015.4	4148.5	3482.0	3401.8	3413.7	3444.0	3586.0	3571.9
47.5°	5894.3	5865.1	5689.5	4989.4	4143.0	3762.7	3796.2	3810.3	4015.2	4065.0
50°	6356.0	6345.1	6188.0	5737.2	5006.8	4294.8	4306.7	4276.3	4583.0	4706.6
52.5°	6791.6	6828.5	6712.5	6431.8	5929.0	4991.6	4989.4	4846.4	5260.3	5446.7
55°	7185.0	7198.0	7209.9	7140.6	6856.7	5784.9	5764.3	5530.2	6046.0	6238.9
57.5°	7554.6	7560.0	7666.2	7808.2	7822.2	6636.7	6598.7	6318.0	6904.3	7042.0
60°	7802.7	7827.7	8052.0	8446.5	8618.8	7515.5	7495.0	7208.9	7777.8	7841.7
62.5°	7445.1	7596.8	8162.5	8945.0	9370.9	8489.8	8480.1	8211.3	8696.8	8644.8
65°	6026.5	6283.4	7278.2	9282.0	10108.9	9577.9	9591.9	9305.8	9640.7	9471.7
67.5°	4215.6	4486.6	5663.5	9309.1	10933.6	10855.6	10936.8	10488.2	10643.1	10263.8
70°	2915.2	3055.0	3821.2	8726.1	11576.2	12615.5	12613.3	11940.3	11640.2	10624.7
72.5°	1960.4	2033.0	2481.7	6922.8	11103.7	13661.3	13598.4	13050.1	11976.1	9936.6
75°	826.9	880.0	1148.7	3890.5	8784.6	12498.5	12328.3	11532.9	10641.0	7824.4
77.5°	262.3	285.0	453.0	1392.6	4838.8	9394.7	9214.8	7202.4	7131.9	3925.2
80°	124.6	145.2	254.7	559.2	1904.1	5109.7	5084.8	3267.4	3068.0	1059.9
82.5°	54.2	63.9	140.9	299.1	851.8	1822.8	1859.7	1111.9	920.1	402.1
85°	17.3	22.8	65.0	137.6	359.8	453.0	447.6	264.4	370.6	218.9
87.5°	0.0	0.0	21.7	31.4	36.8	26.0	29.3	22.8	103.0	60.7
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°
1739.4	0°	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4
1761.0	2.5°	1748.0	1730.7	1700.3	1672.2	1647.2	1622.3	1607.1	1585.5	1583.3	1583.3
1789.2	5°	1759.9	1731.8	1677.6	1620.2	1554.0	1491.2	1428.3	1367.6	1348.1	1334.1
1834.7	7.5°	1794.6	1750.2	1664.6	1555.1	1429.4	1291.8	1195.3	1091.3	1051.2	1029.5
1895.4	10°	1844.5	1783.8	1653.7	1461.9	1258.2	1070.7	933.1	820.4	777.0	758.6
1961.5	12.5°	1899.7	1825.0	1634.2	1346.0	1070.7	846.4	712.0	660.0	653.5	653.5
2040.6	15°	1965.9	1874.8	1600.6	1209.4	874.6	669.7	622.1	624.2	630.7	635.1
2117.6	17.5°	2034.1	1927.9	1547.5	1056.6	701.2	602.5	603.6	606.9	612.3	616.6
2201.0	20°	2107.8	1981.0	1477.1	894.1	601.5	583.0	586.3	589.5	593.9	596.0
2279.0	22.5°	2186.9	2030.9	1393.7	734.8	567.9	566.8	567.9	571.1	576.5	576.5
2370.1	25°	2271.5	2086.1	1298.3	618.8	550.5	550.5	552.7	554.9	559.2	559.2
2457.9	27.5°	2358.2	2137.1	1197.5	558.1	535.4	534.3	534.3	537.5	539.7	540.8
2544.6	30°	2453.5	2196.7	1096.7	545.1	523.4	518.0	514.8	516.9	519.1	520.2
2635.6	32.5°	2551.1	2254.1	1006.8	550.5	511.5	501.8	490.9	488.8	488.8	493.1
2729.9	35°	2659.4	2317.0	937.4	568.9	505.0	477.9	460.6	450.8	451.9	458.4
2842.6	37.5°	2789.5	2392.8	886.5	585.2	500.7	450.8	422.6	410.7	403.1	410.7
2997.5	40°	2959.6	2504.5	849.6	598.2	495.3	419.4	381.5	362.0	347.9	352.2
3238.1	42.5°	3210.0	2680.0	835.5	599.3	483.3	382.6	339.2	313.2	292.6	293.7
3600.1	45°	3561.1	2957.5	908.2	585.2	457.3	342.5	294.8	260.1	247.1	243.8
4140.9	47.5°	4042.2	3361.7	1076.1	555.9	419.4	303.4	251.4	222.2	212.4	207.0
4850.7	50°	4687.1	3880.8	1262.5	523.4	381.5	266.6	215.7	197.2	190.7	185.3
5692.7	52.5°	5434.8	4407.5	1415.3	490.9	343.5	234.1	192.9	182.1	176.6	172.3
6505.5	55°	6120.8	4770.5	1406.7	456.2	306.7	208.1	176.6	170.1	163.6	159.3
7205.6	57.5°	6547.8	4821.4	1159.6	418.3	264.4	187.5	161.5	157.1	149.6	144.1
7811.4	60°	6743.9	4531.0	812.8	368.5	222.2	168.0	145.2	143.1	133.3	125.7
8384.7	62.5°	6779.7	3991.3	541.9	306.7	185.3	149.6	129.0	125.7	112.7	99.7
8850.7	65°	6634.5	3219.7	375.0	239.5	158.2	130.0	110.5	104.0	89.9	76.9
8961.2	67.5°	6175.0	2260.6	261.2	172.3	134.4	103.0	87.8	85.6	74.8	63.9
8397.7	70°	5333.0	1288.5	174.5	129.0	106.2	70.4	69.4	71.5	60.7	52.0
6861.0	72.5°	4088.8	589.5	108.4	94.3	72.6	47.7	55.3	56.4	46.6	39.0
4280.7	75°	2406.9	252.5	68.3	60.7	36.8	31.4	40.1	41.2	31.4	24.9
1564.9	77.5°	819.3	95.4	43.3	35.8	18.4	17.3	26.0	26.0	17.3	9.8
314.3	80°	186.4	35.8	21.7	14.1	8.7	7.6	8.7	7.6	4.3	1.1
96.5	82.5°	53.1	14.1	8.7	5.4	3.3	3.3	1.1	0.0	0.0	0.0
33.6	85°	15.2	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
11.9	87.5°	6.5	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>
1739.4
1588.7
1340.6
1032.8
758.6
653.5
635.1
616.6
597.1
578.7
560.3
541.9
522.3
496.3
461.7
408.6
350.0
289.4
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203.7
184.2
171.2
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143.1
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