

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: P950792

Luminaire Tested: **GALN-SB5A-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950792
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-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 16696 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

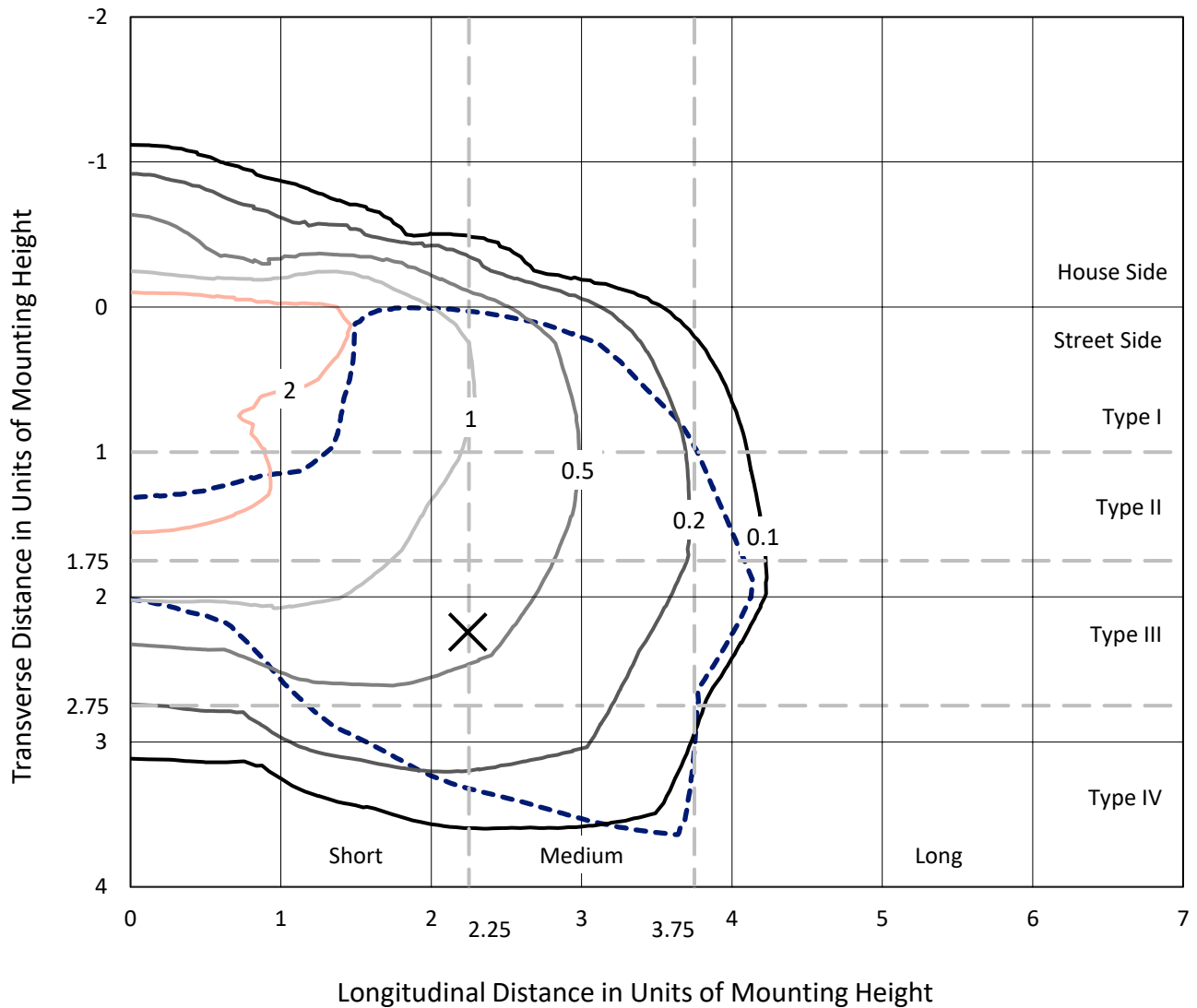
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

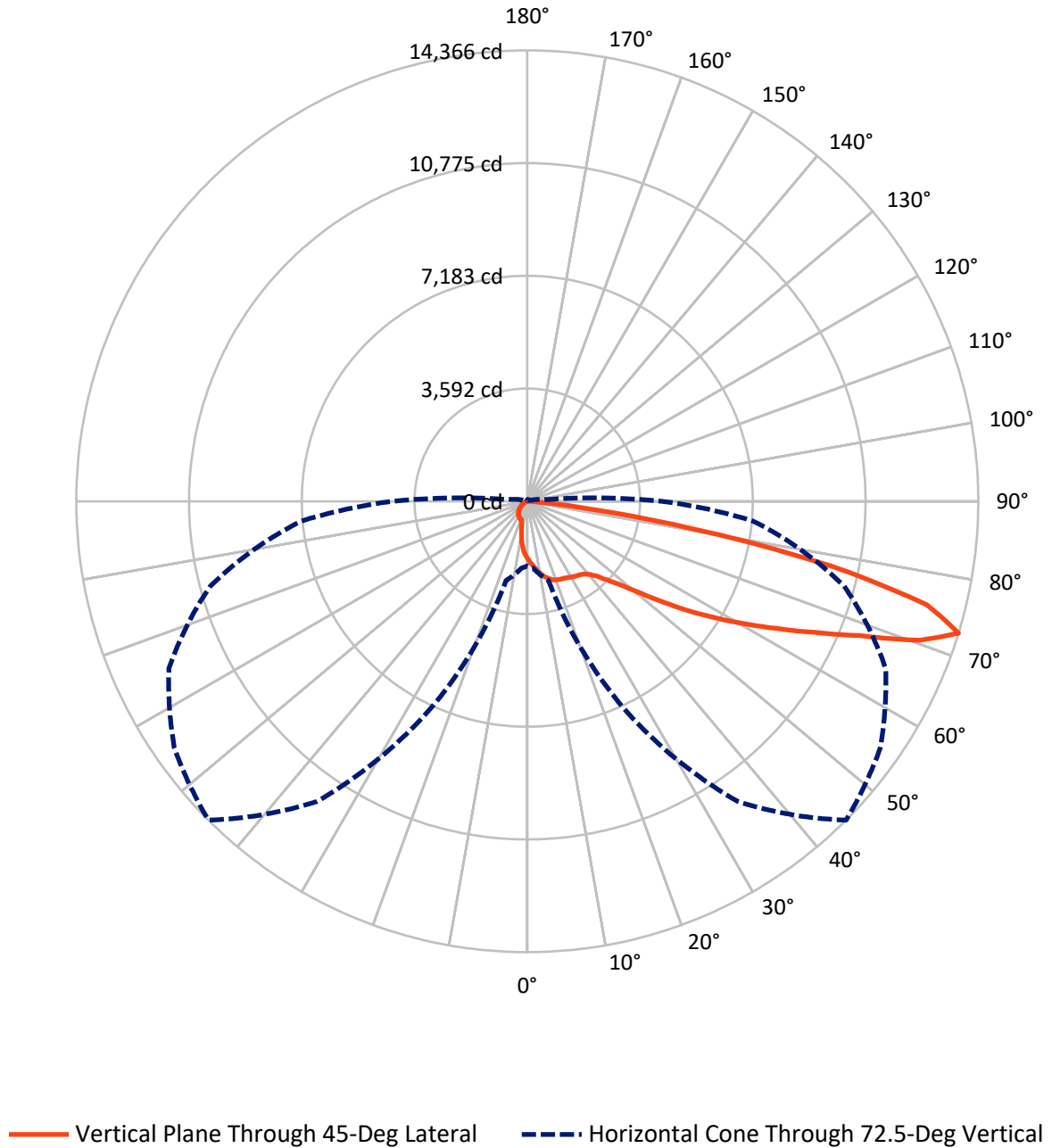
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1754.3	0.0	1754.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14941.7	0.0	14941.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	16696.0	0.0	16696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.0
10°-20°	503.7	3.0
20°-30°	827.1	5.0
30°-40°	1173.0	7.0
40°-50°	1938.9	11.6
50°-60°	3483.0	20.9
60°-70°	4836.3	29.0
70°-80°	3508.1	21.0
80°-90°	253.6	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°	16696.0	100.0
0°-180°	16696.0	100.0

Coefficient of Utilization



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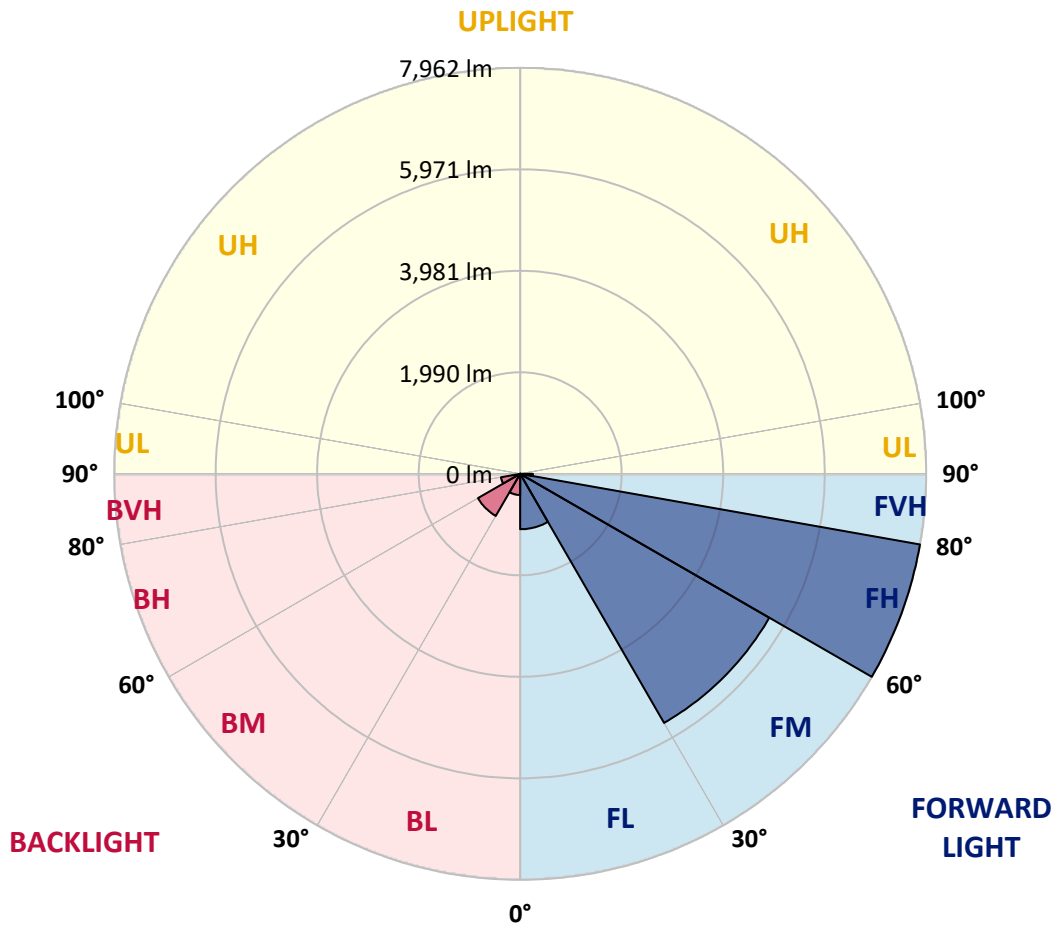
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.6	6.5			
FM (30°-60°)	5640.8	33.8			
FH (60°-80°)	7961.9	47.7			G4/12000
FVH (80°-90°)	251.5	1.5			G3/500
BL (0°-30°)	415.5	2.5	B1/500		
BM (30°-60°)	954.1	5.7	B1/1000		
BH (60°-80°)	382.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1
2.5°	1997.7	2001.2	1998.9	1985.2	1962.4	1949.9	1943.0	1920.3	1905.4	1879.2
5°	2181.2	2194.9	2186.9	2159.6	2116.3	2085.5	2076.4	2029.7	1987.5	1938.5
7.5°	2376.1	2382.9	2368.1	2332.8	2274.7	2222.2	2214.3	2149.3	2082.1	2006.9
10°	2544.8	2552.7	2529.9	2478.7	2412.6	2347.6	2336.2	2264.4	2184.6	2092.3
12.5°	2686.1	2694.1	2664.4	2602.9	2529.9	2462.7	2451.3	2376.1	2288.3	2185.8
15°	2793.2	2808.0	2768.1	2702.0	2623.4	2556.2	2550.5	2476.4	2390.9	2277.0
17.5°	2855.9	2870.7	2833.1	2753.3	2686.1	2629.1	2622.3	2560.7	2480.9	2371.5
20°	2866.1	2879.8	2839.9	2770.4	2714.6	2669.0	2665.6	2621.1	2563.0	2458.1
22.5°	2835.4	2852.5	2816.0	2760.1	2721.4	2697.5	2692.9	2667.8	2634.8	2545.9
25°	2803.5	2817.1	2789.8	2740.8	2720.3	2718.0	2721.4	2716.8	2710.0	2634.8
27.5°	2801.2	2816.0	2785.2	2738.5	2727.1	2751.0	2754.4	2776.1	2781.8	2715.7
30°	2820.5	2830.8	2801.2	2752.2	2746.5	2801.2	2802.3	2841.1	2850.2	2784.1
32.5°	2862.7	2874.1	2844.5	2772.7	2764.7	2841.1	2844.5	2895.8	2910.6	2857.0
35°	2961.9	2975.5	2941.3	2829.7	2801.2	2878.7	2888.9	2949.3	2979.0	2934.5
37.5°	3209.2	3169.3	3122.5	2944.8	2884.4	2937.9	2955.0	3025.7	3078.1	3026.8
40°	3823.4	3698.1	3552.2	3140.8	3030.2	3064.4	3078.1	3148.8	3220.6	3170.4
42.5°	4745.4	4597.2	4362.4	3592.1	3250.2	3267.3	3277.5	3339.1	3440.5	3400.6
45°	5567.0	5513.5	5274.1	4362.4	3661.6	3577.3	3589.8	3621.7	3771.0	3756.2
47.5°	6198.4	6167.6	5983.0	5246.8	4356.7	3956.7	3992.1	4006.9	4222.3	4274.7
50°	6683.8	6672.4	6507.2	6033.1	5265.0	4516.3	4528.8	4496.9	4819.4	4949.3
52.5°	7142.0	7180.7	7058.8	6763.6	6234.8	5249.1	5246.8	5096.4	5531.7	5727.7
55°	7555.6	7569.3	7581.9	7508.9	7210.3	6083.3	6061.6	5815.5	6357.9	6560.8
57.5°	7944.3	7950.0	8061.6	8210.9	8225.7	6979.0	6939.1	6644.0	7260.5	7405.2
60°	8205.2	8231.4	8467.3	8882.2	9063.4	7903.2	7881.6	7580.7	8179.0	8246.3
62.5°	7829.2	7988.7	8583.6	9406.4	9854.3	8927.7	8917.5	8634.9	9145.4	9090.7
65°	6337.4	6607.5	7653.7	9760.8	10630.3	10071.9	10086.7	9785.9	10138.0	9960.2
67.5°	4433.1	4718.0	5955.6	9789.3	11497.6	11415.5	11501.0	11029.2	11192.2	10793.3
70°	3065.6	3212.6	4018.3	9176.2	12173.4	13266.3	13264.0	12556.3	12240.6	11172.8
72.5°	2061.6	2137.9	2609.7	7279.9	11676.5	14366.0	14299.9	13723.2	12593.9	10449.1
75°	869.5	925.4	1208.0	4091.2	9237.7	13143.2	12964.3	12127.8	11189.9	8228.0
77.5°	275.8	299.7	476.4	1464.4	5088.4	9879.3	9690.1	7573.9	7499.8	4127.7
80°	131.1	152.7	267.8	588.0	2002.3	5373.3	5347.1	3435.9	3226.3	1114.5
82.5°	57.0	67.2	148.1	314.5	895.7	1916.8	1955.6	1169.2	967.5	422.8
85°	18.2	23.9	68.4	144.7	378.4	476.4	470.7	278.1	389.7	230.2
87.5°	0.0	0.0	22.8	33.0	38.7	27.4	30.8	23.9	108.3	63.8
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°
1829.1	0°	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1	1829.1
1851.9	2.5°	1838.2	1820.0	1788.1	1758.4	1732.2	1706.0	1690.0	1667.3	1665.0	1665.0
1881.5	5°	1850.7	1821.1	1764.1	1703.7	1634.2	1568.1	1502.0	1438.2	1417.7	1402.9
1929.4	7.5°	1887.2	1840.5	1750.4	1635.3	1503.2	1358.4	1257.0	1147.6	1105.4	1082.6
1993.2	10°	1939.6	1875.8	1739.1	1537.3	1323.1	1125.9	981.2	862.7	817.1	797.7
2062.7	12.5°	1997.7	1919.1	1718.5	1415.4	1125.9	890.0	748.7	694.0	687.2	687.2
2145.9	15°	2067.3	1971.5	1683.2	1271.8	919.7	704.3	654.1	656.4	663.3	667.8
2226.8	17.5°	2139.1	2027.4	1627.4	1111.1	737.3	633.6	634.8	638.2	643.9	648.4
2314.6	20°	2216.6	2083.2	1553.3	940.2	632.5	613.1	616.5	620.0	624.5	626.8
2396.6	22.5°	2299.7	2135.6	1465.5	772.7	597.2	596.0	597.2	600.6	606.3	606.3
2492.3	25°	2388.6	2193.8	1365.3	650.7	578.9	578.9	581.2	583.5	588.0	588.0
2584.6	27.5°	2479.8	2247.3	1259.3	586.9	563.0	561.8	561.8	565.2	567.5	568.7
2675.8	30°	2580.1	2310.0	1153.3	573.2	550.4	544.7	541.3	543.6	545.9	547.0
2771.5	32.5°	2682.7	2370.4	1058.7	578.9	537.9	527.6	516.2	514.0	514.0	518.5
2870.7	35°	2796.6	2436.5	985.8	598.3	531.1	502.6	484.3	474.1	475.2	482.1
2989.2	37.5°	2933.4	2516.3	932.2	615.4	526.5	474.1	444.4	431.9	423.9	431.9
3152.2	40°	3112.3	2633.7	893.5	629.1	520.8	441.0	401.1	380.6	365.8	370.4
3405.2	42.5°	3375.5	2818.3	878.6	630.2	508.3	402.3	356.7	329.3	307.7	308.8
3785.8	45°	3744.8	3110.0	955.0	615.4	480.9	360.1	310.0	273.5	259.8	256.4
4354.5	47.5°	4250.8	3535.1	1131.6	584.6	441.0	319.1	264.4	233.6	223.4	217.7
5100.9	50°	4928.8	4081.0	1327.7	550.4	401.1	280.3	226.8	207.4	200.6	194.9
5986.4	52.5°	5715.2	4634.8	1488.3	516.2	361.3	246.2	202.9	191.5	185.8	181.2
6841.1	55°	6436.5	5016.6	1479.2	479.8	322.5	218.8	185.8	178.9	172.1	167.5
7577.3	57.5°	6885.6	5070.1	1219.4	439.9	278.1	197.2	169.8	165.2	157.3	151.6
8214.3	60°	7091.8	4764.7	854.7	387.5	233.6	176.6	152.7	150.4	140.2	132.2
8817.2	62.5°	7129.4	4197.2	569.8	322.5	194.9	157.3	135.6	132.2	118.5	104.8
9307.2	65°	6976.7	3385.8	394.3	251.9	166.4	136.8	116.2	109.4	94.6	80.9
9423.5	67.5°	6493.5	2377.2	274.6	181.2	141.3	108.3	92.3	90.0	78.6	67.2
8830.9	70°	5608.0	1355.0	183.5	135.6	111.7	74.1	72.9	75.2	63.8	54.7
7214.9	72.5°	4299.8	620.0	114.0	99.1	76.4	50.1	58.1	59.3	49.0	41.0
4501.5	75°	2531.1	265.5	71.8	63.8	38.7	33.0	42.2	43.3	33.0	26.2
1645.6	77.5°	861.5	100.3	45.6	37.6	19.4	18.2	27.4	27.4	18.2	10.3
330.5	80°	196.0	37.6	22.8	14.8	9.1	8.0	9.1	8.0	4.6	1.1
101.4	82.5°	55.8	14.8	9.1	5.7	3.4	3.4	1.1	0.0	0.0	0.0
35.3	85°	16.0	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	6.8	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>
1829.1
1670.7
1409.7
1086.1
797.7
687.2
667.8
648.4
627.9
608.6
589.2
569.8
549.3
521.9
485.5
429.6
368.1
304.3
251.9
214.2
193.7
180.1
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