

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: P949757

Luminaire Tested: **GALN-SB4B-930-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-930-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

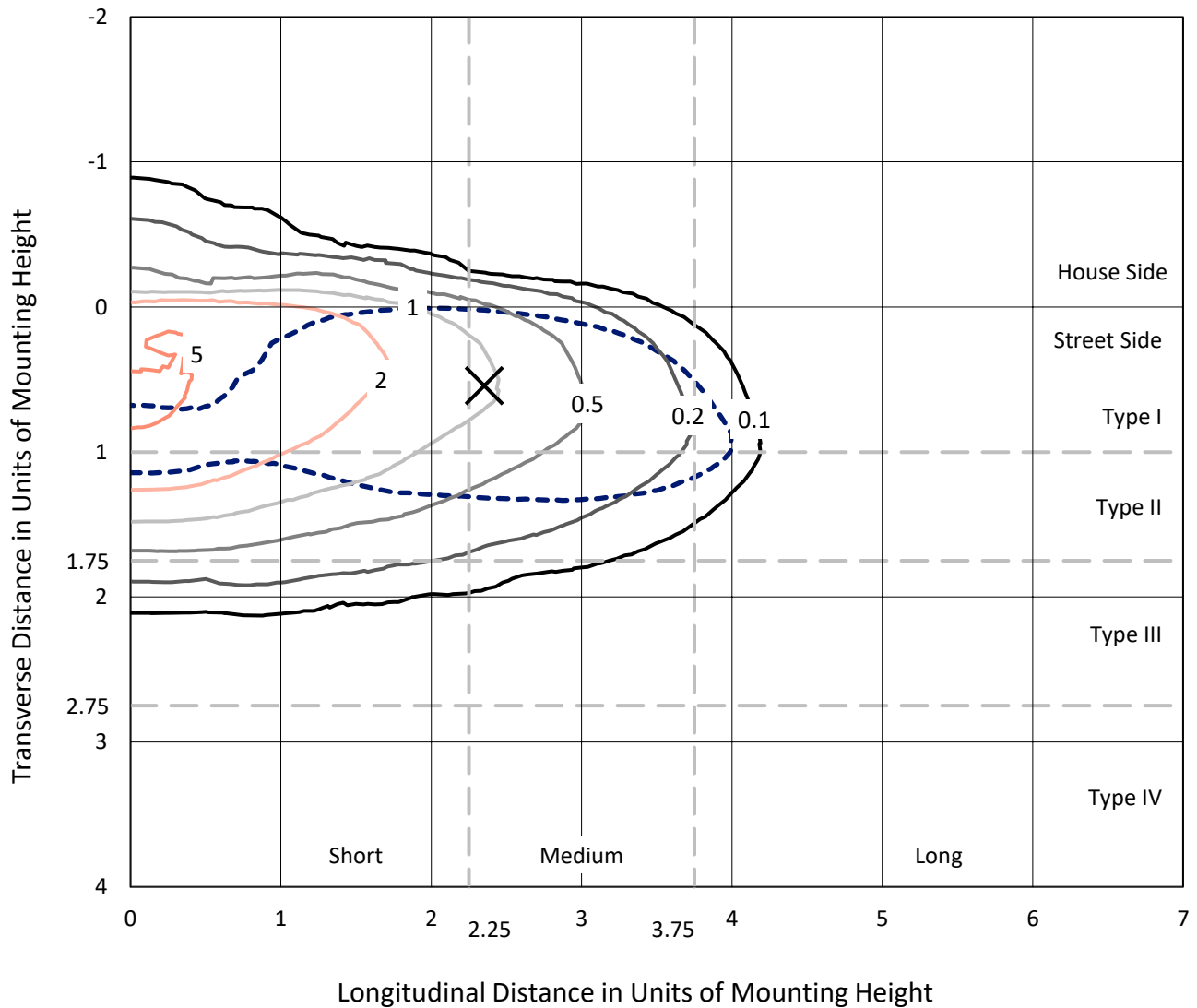
Lumens per Lamp: N/A  
Luminaire Lumens: 13292 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

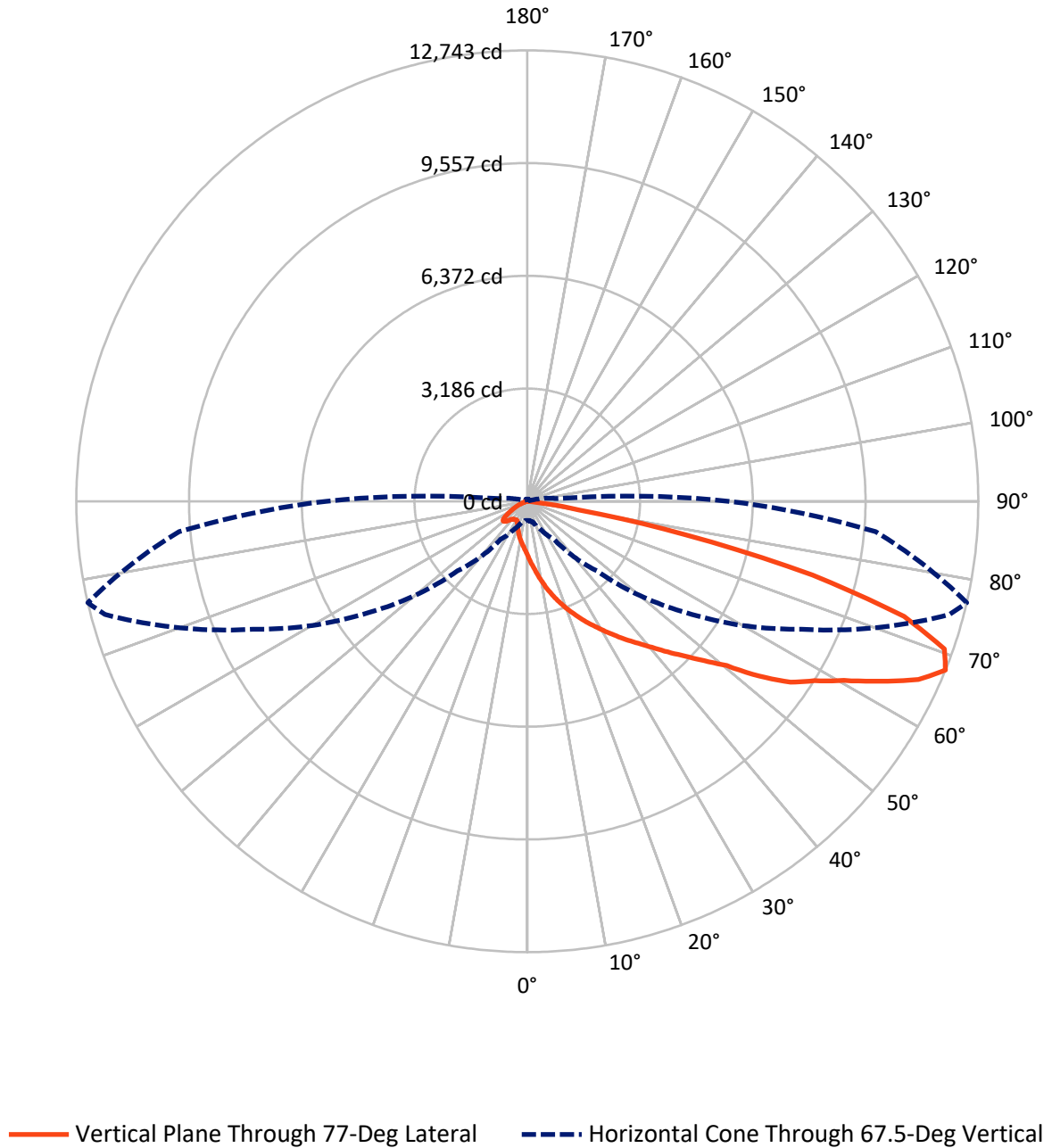
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	977.9	0.0	977.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	12314.1	0.0	12314.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	13292.0	0.0	13292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	1.2
10°-20°	547.8	4.1
20°-30°	1057.2	8.0
30°-40°	1835.3	13.8
40°-50°	2664.8	20.0
50°-60°	3060.2	23.0
60°-70°	2656.8	20.0
70°-80°	1251.4	9.4
80°-90°	61.9	0.5
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°	13292.0	100.0
0°-180°	13292.0	100.0

**Coefficient of Utilization**



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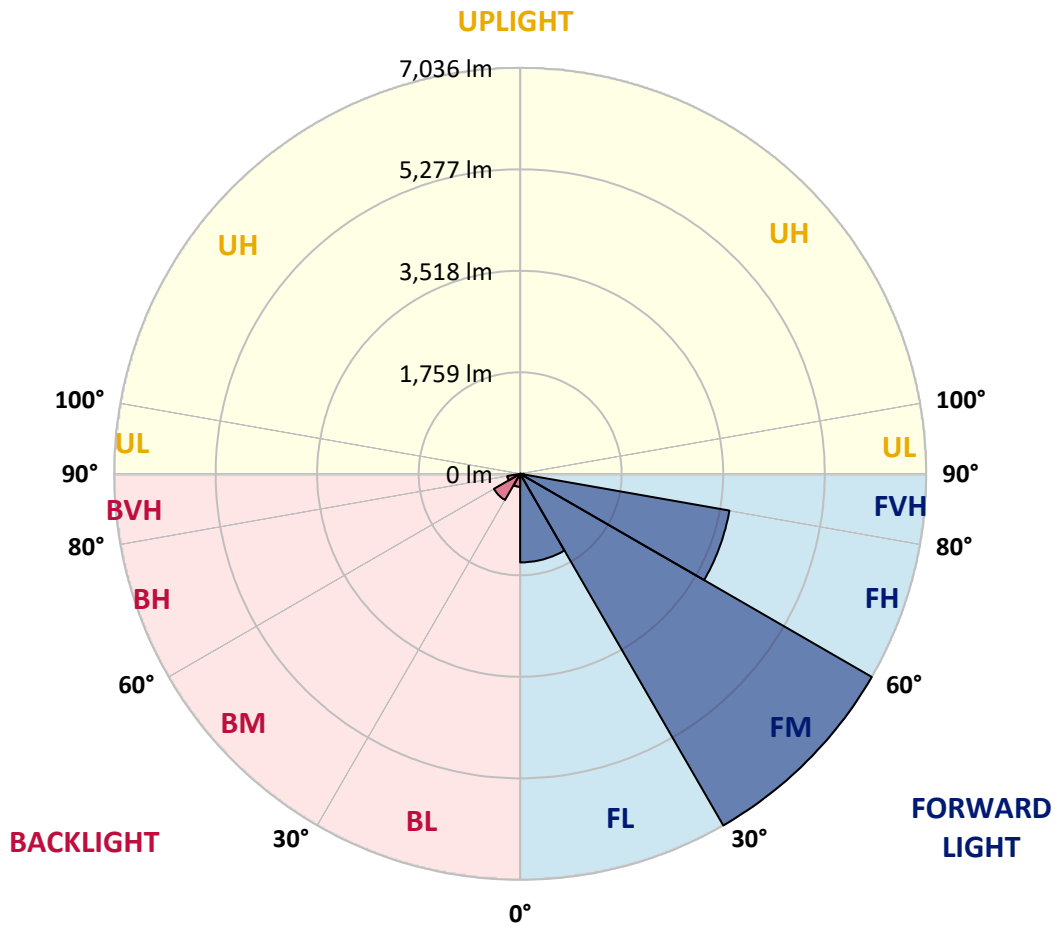
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.1	11.5			
FM (30°-60°)	7036.4	52.9			
FH (60°-80°)	3681.8	27.7			G2/5000
FVH (80°-90°)	60.7	0.5			G1/100
BL (0°-30°)	226.4	1.7	B1/500		
BM (30°-60°)	524.0	3.9	B1/1000		
BH (60°-80°)	226.4	1.7	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	2122.1	2135.3	2116.3	2080.0	2025.5	1990.0	1903.4	1821.7	1730.9	1702.0
5°	2586.8	2598.4	2576.9	2537.3	2464.6	2395.3	2281.4	2110.5	1933.1	1876.1
7.5°	2931.0	2937.6	2929.3	2893.0	2823.7	2745.3	2618.2	2415.9	2152.6	2089.9
10°	3178.6	3200.1	3197.6	3183.6	3137.3	3073.8	2938.4	2708.1	2398.6	2317.7
12.5°	3342.9	3366.8	3380.8	3412.2	3409.7	3369.3	3250.4	3006.9	2643.7	2548.8
15°	3390.7	3416.3	3470.0	3542.6	3607.0	3627.6	3544.3	3299.9	2913.7	2792.3
17.5°	3363.5	3403.1	3467.5	3582.2	3723.4	3816.6	3807.6	3583.1	3158.8	3020.1
20°	3423.7	3461.7	3512.1	3608.6	3772.9	3942.1	4009.8	3853.8	3402.3	3257.0
22.5°	3757.2	3750.6	3755.6	3771.2	3869.5	4037.0	4176.5	4099.7	3643.3	3494.7
25°	4285.5	4255.7	4205.4	4120.4	4095.6	4176.5	4321.8	4317.7	3897.5	3738.2
27.5°	4891.3	4886.4	4768.3	4563.6	4448.1	4416.7	4486.0	4529.8	4149.3	3979.2
30°	5471.6	5484.8	5325.5	5097.7	4885.5	4762.5	4699.8	4731.2	4405.1	4239.2
32.5°	5976.7	5990.7	5817.4	5550.8	5288.3	5139.7	5007.7	4930.1	4684.1	4503.4
35°	6403.4	6417.5	6218.5	5923.9	5644.1	5509.5	5360.1	5148.0	4964.8	4796.4
37.5°	6784.8	6780.6	6514.0	6216.9	5942.0	5835.6	5757.1	5416.3	5253.7	5091.1
40°	7010.1	7027.4	6799.6	6471.9	6205.3	6127.8	6122.8	5748.9	5587.1	5429.5
42.5°	7076.1	7106.7	6941.6	6672.5	6430.7	6346.5	6476.1	6108.8	5975.1	5821.5
45°	6957.3	6987.0	6911.9	6725.3	6584.2	6529.7	6779.8	6481.8	6389.4	6237.5
47.5°	6610.6	6647.8	6665.9	6626.3	6624.6	6679.9	7052.2	6874.7	6881.3	6726.2
50°	5939.6	6002.3	6169.0	6309.3	6526.4	6798.8	7317.1	7300.6	7436.0	7302.3
52.5°	4719.6	4808.8	5383.2	5767.1	6254.9	6776.5	7608.5	7984.1	8409.1	8213.5
55°	3792.7	3792.7	4259.9	4978.0	5725.0	6629.6	7735.6	8428.1	9071.9	9025.7
57.5°	3091.9	3129.1	3427.1	4061.8	4958.2	6279.6	7814.0	8707.1	9606.0	9572.1
60°	1908.3	1988.4	2551.3	3177.8	4085.7	5656.4	7764.5	8989.4	10253.9	10281.2
62.5°	1074.7	1104.4	1355.3	2286.4	3177.0	4818.7	7385.7	9147.1	11082.6	11198.2
65°	742.0	756.9	853.5	1423.0	2202.2	3836.4	6645.3	9048.8	11913.0	12146.5
67.5°	539.0	546.4	606.7	869.1	1306.6	2781.6	5484.8	8553.6	12352.9	12743.3
70°	414.3	419.3	463.0	571.2	771.7	1716.8	3983.4	7568.9	12034.3	12500.6
72.5°	336.8	341.7	375.6	422.6	511.7	1015.2	2414.3	6146.7	10627.8	11131.3
75°	283.9	290.5	321.1	351.6	401.1	652.1	1132.4	4280.5	7992.3	8322.5
77.5°	157.7	145.3	260.8	291.4	338.4	412.7	529.9	2519.1	4476.1	4567.7
80°	98.2	101.5	207.2	234.4	260.0	208.0	242.7	969.8	1551.7	1474.2
82.5°	5.8	13.2	159.3	169.2	178.3	89.1	91.6	329.3	373.9	343.4
85°	0.0	0.0	72.6	58.6	61.9	25.6	26.4	76.8	50.3	54.5
87.5°	0.0	0.0	0.0	1.7	0.0	2.5	5.0	6.6	2.5	3.3
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°
1532.8	0°	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
1611.2	2.5°	1553.4	1495.6	1378.4	1263.7	1170.4	1083.7	1021.8	963.2	933.5	931.9
1715.2	5°	1600.4	1479.1	1244.7	1037.5	870.8	737.1	650.4	588.5	557.1	546.4
1843.1	7.5°	1666.5	1484.1	1127.5	839.4	643.0	528.3	478.7	458.9	452.3	444.9
1987.6	10°	1749.8	1495.6	1022.7	676.0	506.8	449.0	429.2	421.0	416.0	411.0
2150.2	12.5°	1843.1	1506.4	918.7	561.3	445.7	416.0	402.0	392.1	385.5	379.7
2316.9	15°	1933.9	1513.0	810.5	481.2	414.3	390.4	375.6	364.8	355.7	349.1
2480.3	17.5°	2023.9	1522.0	709.0	433.3	388.8	364.8	350.0	336.8	329.3	321.9
2652.0	20°	2123.7	1520.4	613.3	399.5	363.2	339.2	323.6	311.2	303.7	295.5
2833.6	22.5°	2216.2	1512.1	529.1	370.6	336.8	313.7	296.3	283.9	276.5	269.9
3019.3	25°	2322.7	1505.5	458.9	344.2	312.0	288.9	269.9	258.3	250.1	244.3
3205.8	27.5°	2425.0	1495.6	407.7	320.3	288.1	265.8	247.6	234.4	227.0	222.9
3398.2	30°	2525.7	1493.1	388.8	297.1	266.6	244.3	226.2	213.8	208.0	206.3
3609.5	32.5°	2647.0	1499.7	397.0	288.9	246.8	224.5	207.2	198.1	192.3	192.3
3844.7	35°	2776.6	1498.1	409.4	296.3	233.6	204.7	191.5	185.7	179.9	179.9
4105.5	37.5°	2939.2	1500.6	419.3	308.7	228.6	188.2	180.8	173.3	170.0	170.0
4391.1	40°	3181.9	1582.3	414.3	319.4	227.0	176.6	161.8	159.3	156.8	156.8
4713.8	42.5°	3479.1	1759.7	421.0	320.3	226.2	168.4	148.6	153.5	147.7	146.9
5077.8	45°	3804.3	1953.7	463.0	302.9	225.3	164.3	142.0	147.7	138.7	138.7
5499.6	47.5°	4127.0	2146.0	506.0	278.2	222.9	163.4	136.2	132.9	130.4	131.2
6049.3	50°	4571.9	2302.9	522.5	244.3	217.1	161.8	125.5	126.3	124.6	126.3
6824.4	52.5°	5056.4	2335.9	502.7	206.3	200.6	156.8	118.0	121.3	120.5	122.2
7370.0	55°	5358.5	2300.4	415.2	171.7	175.0	137.0	110.6	117.2	117.2	117.2
7903.2	57.5°	5670.5	2149.3	294.7	139.5	145.3	112.3	104.0	113.1	112.3	111.4
8545.3	60°	5895.0	1905.0	194.0	114.7	115.6	92.4	96.6	106.5	105.7	101.5
9207.3	62.5°	6062.5	1635.1	124.6	97.4	88.3	83.4	88.3	96.6	93.3	84.2
9768.6	65°	6043.6	1261.2	95.7	83.4	72.6	72.6	76.8	84.2	74.3	59.4
9875.9	67.5°	5691.1	853.5	79.2	70.2	61.1	60.3	63.6	70.2	63.6	50.3
9326.2	70°	5061.3	558.0	63.6	54.5	48.7	44.6	51.2	60.3	53.7	40.4
7939.5	72.5°	4108.0	340.1	47.9	39.6	35.5	28.9	40.4	49.5	42.9	29.7
5521.1	75°	2657.8	173.3	33.0	25.6	19.0	17.3	29.7	37.1	29.7	18.2
2449.8	77.5°	1016.9	72.6	18.2	11.6	9.9	8.3	16.5	22.3	12.4	4.1
474.6	80°	195.6	30.5	9.1	5.8	5.0	3.3	2.5	1.7	0.0	0.0
84.2	82.5°	33.8	9.9	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
16.5	85°	11.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	4.1	0.0	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

180°
1532.8
930.2
544.8
443.2
409.4
378.0
348.3
321.1
294.7
269.1
243.5
222.9
205.5
192.3
179.9
170.0
156.8
146.1
138.7
131.2
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122.2
117.2
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