

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: P949442

Luminaire Tested: **GALN-SB4A-940-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949442  
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-SB4A-940-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

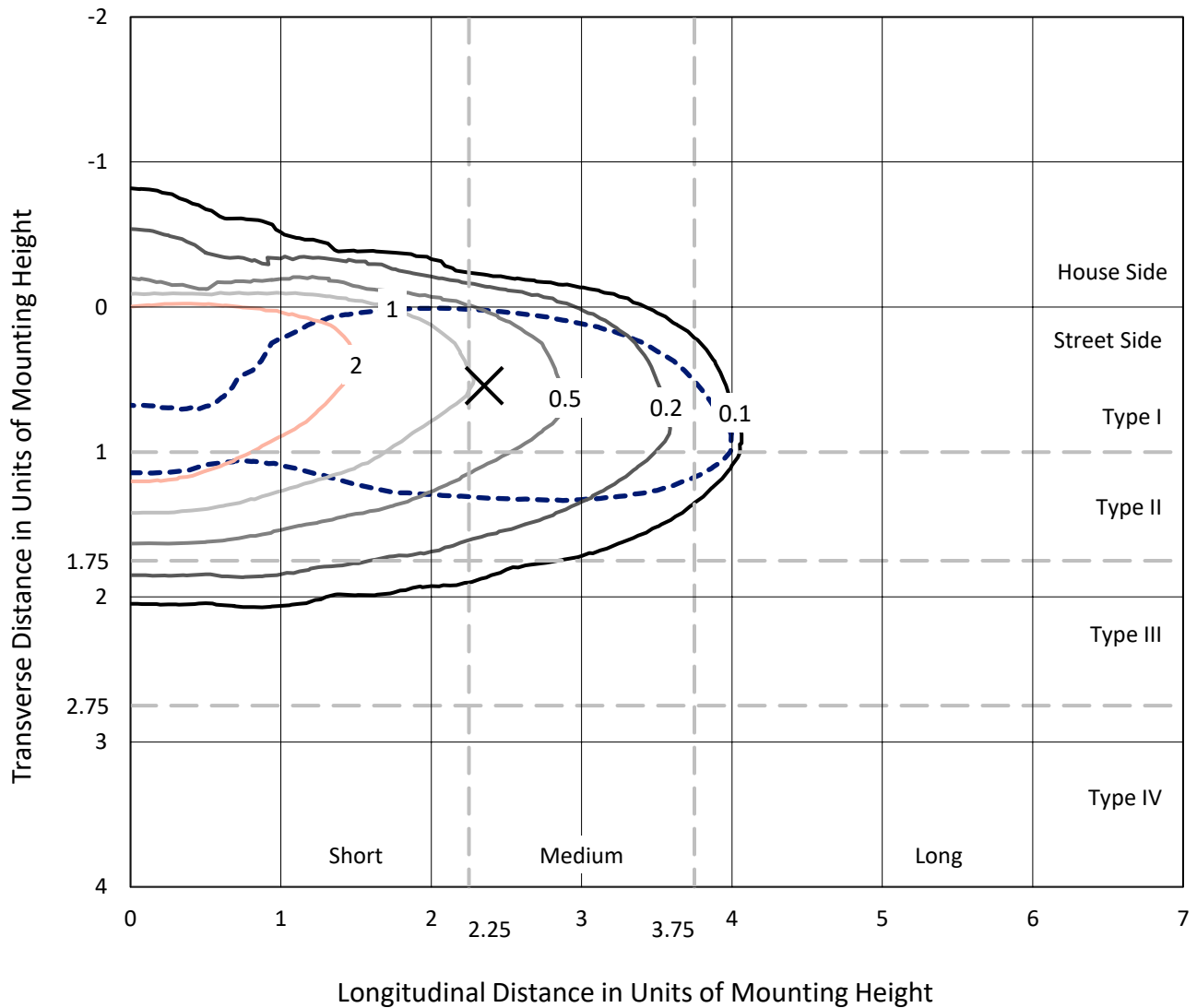
Lumens per Lamp: N/A  
Luminaire Lumens: 11030 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

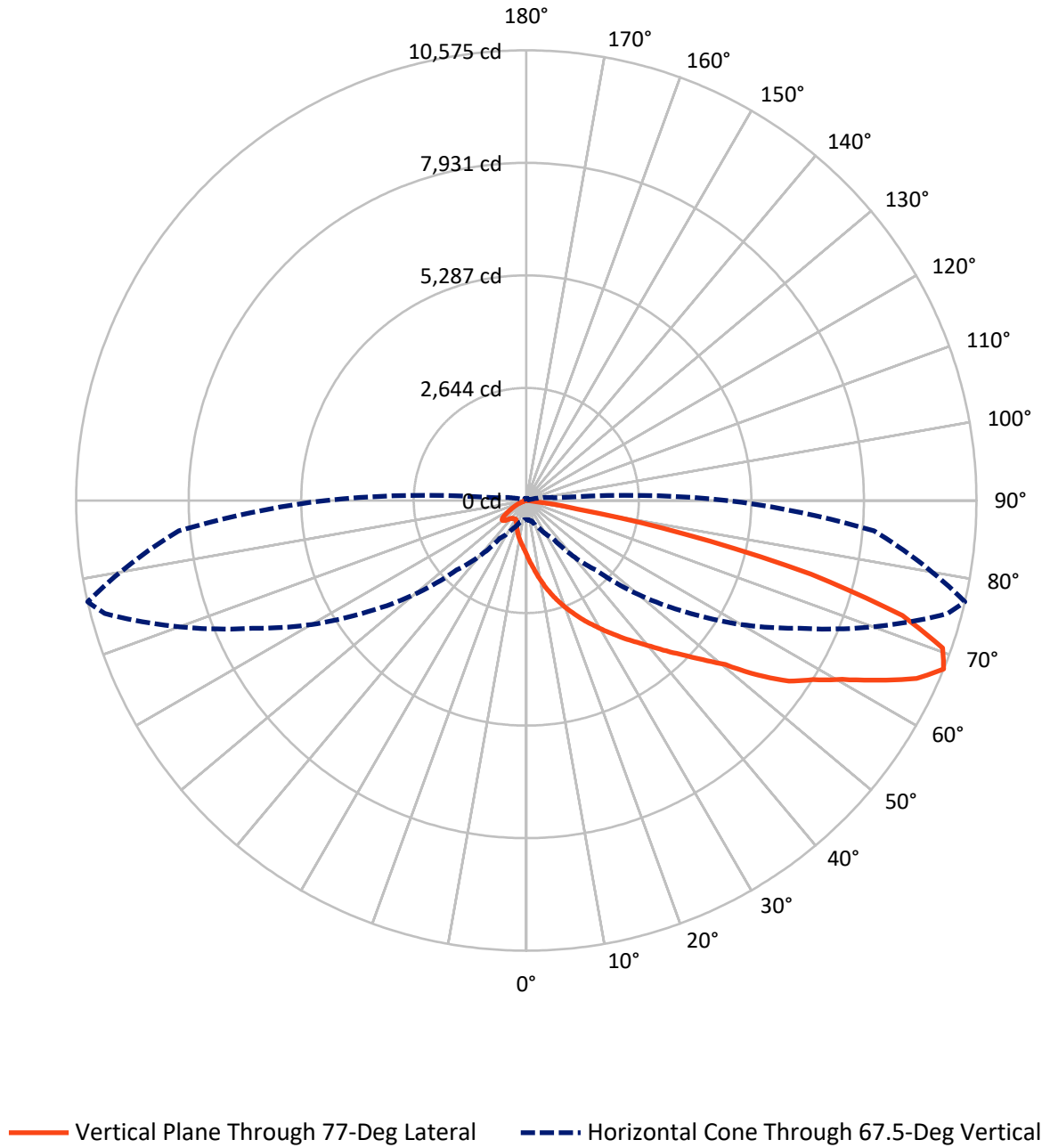
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	811.5	0.0	811.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	10218.5	0.0	10218.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	11030.0	0.0	11030.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.8	1.2
10°-20°	454.6	4.1
20°-30°	877.3	8.0
30°-40°	1523.0	13.8
40°-50°	2211.3	20.0
50°-60°	2539.4	23.0
60°-70°	2204.7	20.0
70°-80°	1038.4	9.4
80°-90°	51.4	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°	11030.0	100.0
0°-180°	11030.0	100.0

**Coefficient of Utilization**



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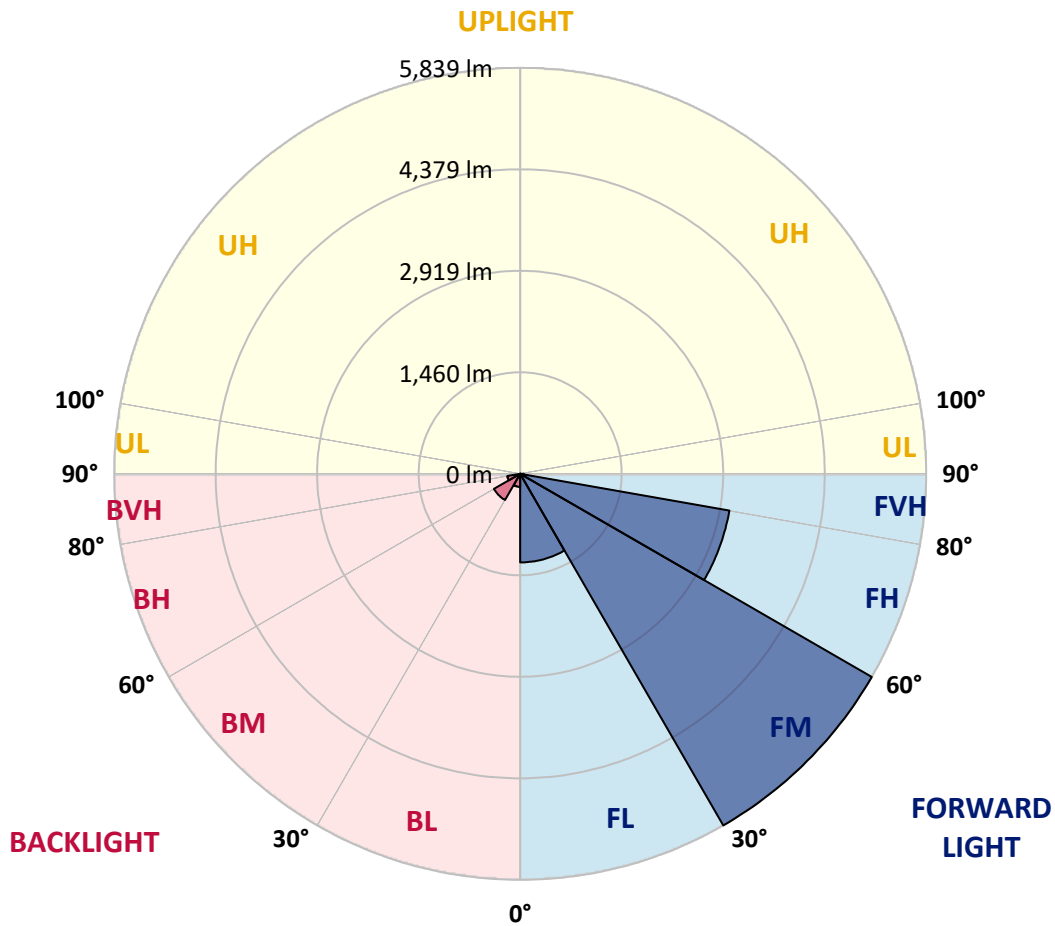
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.8	11.5			
FM (30°-60°)	5839.0	52.9			
FH (60°-80°)	3055.3	27.7			G2/5000
FVH (80°-90°)	50.4	0.5			G1/100
BL (0°-30°)	187.9	1.7	B1/500		
BM (30°-60°)	434.8	3.9	B1/1000		
BH (60°-80°)	187.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9
2.5°	1761.0	1771.9	1756.2	1726.0	1680.8	1651.4	1579.5	1511.6	1436.3	1412.3
5°	2146.6	2156.2	2138.4	2105.5	2045.2	1987.7	1893.2	1751.4	1604.1	1556.9
7.5°	2432.2	2437.7	2430.8	2400.7	2343.2	2278.1	2172.6	2004.8	1786.3	1734.3
10°	2637.7	2655.5	2653.4	2641.8	2603.4	2550.7	2438.4	2247.3	1990.4	1923.3
12.5°	2774.0	2793.8	2805.5	2831.5	2829.5	2795.9	2697.3	2495.2	2193.8	2115.1
15°	2813.7	2834.9	2879.5	2939.7	2993.2	3010.3	2941.1	2738.4	2417.8	2317.1
17.5°	2791.1	2824.0	2877.4	2972.6	3089.7	3167.1	3159.6	2973.3	2621.2	2506.2
20°	2841.1	2872.6	2914.4	2994.5	3130.8	3271.2	3327.4	3198.0	2823.3	2702.7
22.5°	3117.8	3112.3	3116.4	3129.5	3211.0	3350.0	3465.8	3402.1	3023.3	2900.0
25°	3556.2	3531.5	3489.7	3419.2	3398.6	3465.8	3586.3	3582.9	3234.3	3102.1
27.5°	4058.9	4054.8	3956.9	3787.0	3691.1	3665.1	3722.6	3758.9	3443.2	3302.1
30°	4540.4	4551.4	4419.2	4230.1	4054.1	3952.1	3900.0	3926.0	3655.5	3517.8
32.5°	4959.6	4971.2	4827.4	4606.2	4388.4	4265.1	4155.5	4091.1	3887.0	3737.0
35°	5313.7	5325.4	5160.3	4915.8	4683.6	4571.9	4448.0	4271.9	4119.9	3980.1
37.5°	5630.2	5626.7	5405.5	5158.9	4930.8	4842.5	4777.4	4494.5	4359.6	4224.7
40°	5817.1	5831.5	5642.5	5370.6	5149.3	5084.9	5080.8	4770.6	4636.3	4505.5
42.5°	5871.9	5897.3	5760.3	5537.0	5336.3	5266.5	5374.0	5069.2	4958.2	4830.8
45°	5773.3	5798.0	5735.6	5580.8	5463.7	5418.5	5626.0	5378.8	5302.1	5176.0
47.5°	5485.6	5516.5	5531.5	5498.6	5497.3	5543.2	5852.1	5704.8	5710.3	5581.5
50°	4928.8	4980.8	5119.2	5235.6	5415.8	5641.8	6071.9	6058.2	6170.6	6059.6
52.5°	3916.4	3990.4	4467.1	4785.6	5190.4	5623.3	6313.7	6625.4	6978.1	6815.8
55°	3147.3	3147.3	3534.9	4130.8	4750.7	5501.4	6419.2	6993.9	7528.1	7489.7
57.5°	2565.8	2596.6	2843.8	3370.6	4114.4	5211.0	6484.3	7225.4	7971.3	7943.2
60°	1583.6	1650.0	2117.1	2637.0	3390.4	4693.8	6443.2	7459.6	8508.9	8531.5
62.5°	891.8	916.4	1124.7	1897.3	2636.3	3998.6	6128.8	7590.4	9196.6	9292.5
65°	615.8	628.1	708.2	1180.8	1827.4	3183.6	5514.4	7508.9	9885.6	10079.5
67.5°	447.3	453.4	503.4	721.2	1084.2	2308.2	4551.4	7098.0	10250.7	10574.7
70°	343.8	347.9	384.2	474.0	640.4	1424.7	3305.5	6280.8	9986.3	10373.3
72.5°	279.5	283.6	311.6	350.7	424.7	842.5	2003.4	5100.7	8819.2	9237.0
75°	235.6	241.1	266.4	291.8	332.9	541.1	939.7	3552.1	6632.2	6906.2
77.5°	130.8	120.5	216.4	241.8	280.8	342.5	439.7	2090.4	3714.4	3790.4
80°	81.5	84.2	171.9	194.5	215.8	172.6	201.4	804.8	1287.7	1223.3
82.5°	4.8	11.0	132.2	140.4	147.9	74.0	76.0	273.3	310.3	284.9
85°	0.0	0.0	60.3	48.6	51.4	21.2	21.9	63.7	41.8	45.2
87.5°	0.0	0.0	0.0	1.4	0.0	2.1	4.1	5.5	2.1	2.7
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°
1271.9	0°	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9
1337.0	2.5°	1289.0	1241.1	1143.8	1048.6	971.2	899.3	847.9	799.3	774.7	773.3
1423.3	5°	1328.1	1227.4	1032.9	861.0	722.6	611.6	539.7	488.4	462.3	453.4
1529.5	7.5°	1382.9	1231.5	935.6	696.6	533.6	438.4	397.3	380.8	375.3	369.2
1649.3	10°	1452.1	1241.1	848.6	561.0	420.5	372.6	356.2	349.3	345.2	341.1
1784.3	12.5°	1529.5	1250.0	762.3	465.8	369.9	345.2	333.6	325.3	319.9	315.1
1922.6	15°	1604.8	1255.5	672.6	399.3	343.8	324.0	311.6	302.7	295.2	289.7
2058.2	17.5°	1679.5	1263.0	588.4	359.6	322.6	302.7	290.4	279.5	273.3	267.1
2200.7	20°	1762.3	1261.6	508.9	331.5	301.4	281.5	268.5	258.2	252.1	245.2
2351.4	22.5°	1839.0	1254.8	439.0	307.5	279.5	260.3	245.9	235.6	229.5	224.0
2505.5	25°	1927.4	1249.3	380.8	285.6	258.9	239.7	224.0	214.4	207.5	202.7
2660.3	27.5°	2012.3	1241.1	338.4	265.8	239.0	220.5	205.5	194.5	188.4	184.9
2819.9	30°	2095.9	1239.0	322.6	246.6	221.2	202.7	187.7	177.4	172.6	171.2
2995.2	32.5°	2196.6	1244.5	329.5	239.7	204.8	186.3	171.9	164.4	159.6	159.6
3190.4	35°	2304.1	1243.2	339.7	245.9	193.8	169.9	158.9	154.1	149.3	149.3
3406.9	37.5°	2439.0	1245.2	347.9	256.2	189.7	156.2	150.0	143.8	141.1	141.1
3643.8	40°	2640.4	1313.0	343.8	265.1	188.4	146.6	134.2	132.2	130.1	130.1
3911.7	42.5°	2887.0	1460.3	349.3	265.8	187.7	139.7	123.3	127.4	122.6	121.9
4213.7	45°	3156.9	1621.2	384.2	251.4	187.0	136.3	117.8	122.6	115.1	115.1
4563.7	47.5°	3424.7	1780.8	419.9	230.8	184.9	135.6	113.0	110.3	108.2	108.9
5019.9	50°	3793.8	1911.0	433.6	202.7	180.1	134.2	104.1	104.8	103.4	104.8
5663.0	52.5°	4195.9	1938.4	417.1	171.2	166.4	130.1	97.9	100.7	100.0	101.4
6115.8	55°	4446.6	1908.9	344.5	142.5	145.2	113.7	91.8	97.3	97.3	97.3
6558.2	57.5°	4705.5	1783.6	244.5	115.8	120.5	93.2	86.3	93.8	93.2	92.5
7091.1	60°	4891.8	1580.8	161.0	95.2	95.9	76.7	80.1	88.4	87.7	84.2
7640.4	62.5°	5030.8	1356.9	103.4	80.8	73.3	69.2	73.3	80.1	77.4	69.9
8106.2	65°	5015.1	1046.6	79.5	69.2	60.3	60.3	63.7	69.9	61.6	49.3
8195.2	67.5°	4722.6	708.2	65.8	58.2	50.7	50.0	52.7	58.2	52.7	41.8
7739.1	70°	4200.0	463.0	52.7	45.2	40.4	37.0	42.5	50.0	44.5	33.6
6588.4	72.5°	3408.9	282.2	39.7	32.9	29.5	24.0	33.6	41.1	35.6	24.7
4581.5	75°	2205.5	143.8	27.4	21.2	15.8	14.4	24.7	30.8	24.7	15.1
2032.9	77.5°	843.8	60.3	15.1	9.6	8.2	6.8	13.7	18.5	10.3	3.4
393.8	80°	162.3	25.3	7.5	4.8	4.1	2.7	2.1	1.4	0.0	0.0
69.9	82.5°	28.1	8.2	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
13.7	85°	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.8	87.5°	3.4	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°
1271.9
771.9
452.1
367.8
339.7
313.7
289.0
266.4
244.5
223.3
202.1
184.9
170.5
159.6
149.3
141.1
130.1
121.2
115.1
108.9
104.8
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