

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: P951059

Luminaire Tested: **GALN-SB5B-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951059  
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-SB5B-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

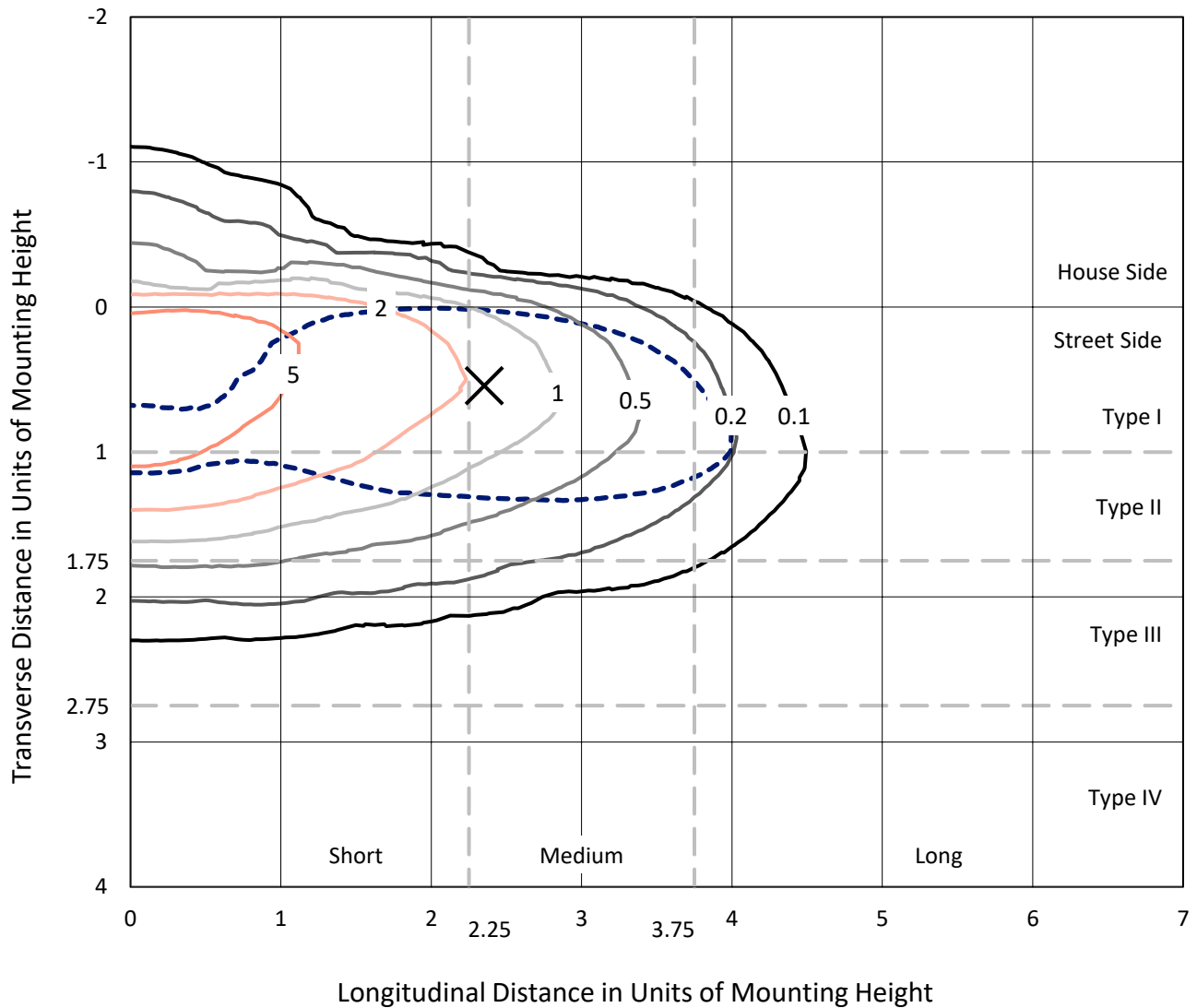
Lumens per Lamp: N/A  
Luminaire Lumens: 20942 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

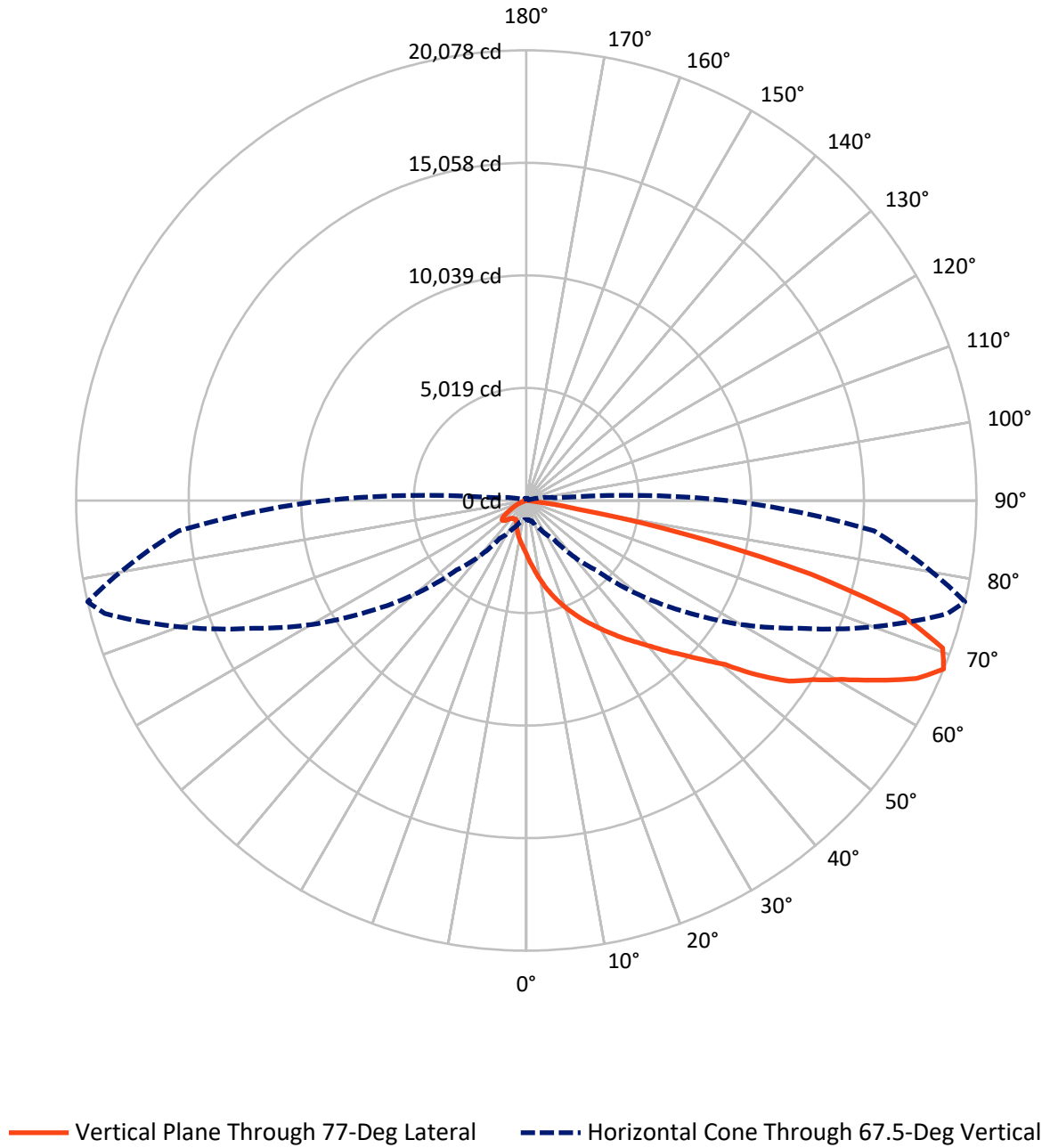
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	1540.7	0.0	1540.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	19401.3	0.0	19401.3
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	20942.0	0.0	20942.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.5	1.2
10°-20°	863.1	4.1
20°-30°	1665.6	8.0
30°-40°	2891.7	13.8
40°-50°	4198.5	20.0
50°-60°	4821.5	23.0
60°-70°	4185.9	20.0
70°-80°	1971.6	9.4
80°-90°	97.5	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°	20942.0	100.0
0°-180°	20942.0	100.0

**Coefficient of Utilization**



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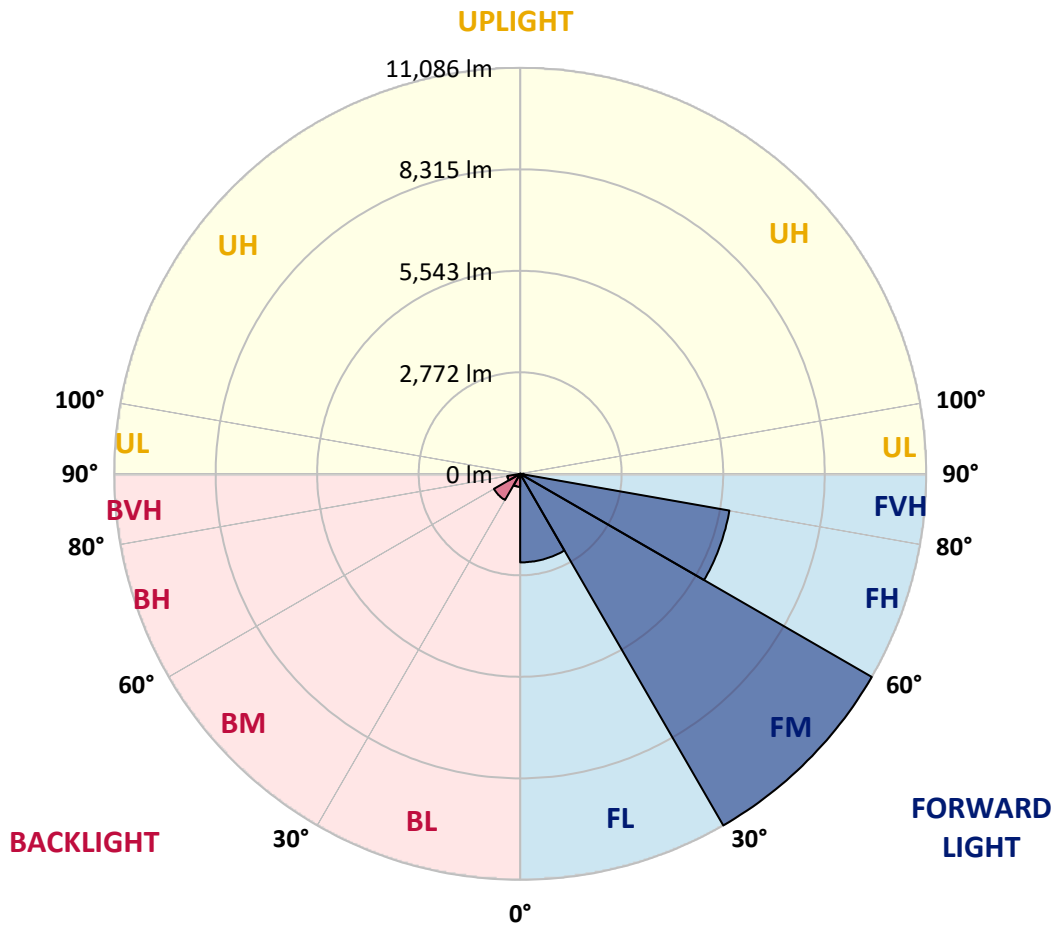
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2418.6	11.5			
FM (30°-60°)	11086.1	52.9			
FH (60°-80°)	5800.9	27.7			G3/7500
FVH (80°-90°)	95.7	0.5			G1/100
BL (0°-30°)	356.7	1.7	B1/500		
BM (30°-60°)	825.5	3.9	B1/1000		
BH (60°-80°)	356.7	1.7	B1/500		G1/500
BVH (80°-90°)	1.8	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9
2.5°	3343.4	3364.2	3334.3	3277.1	3191.3	3135.4	2998.8	2870.1	2727.0	2681.5
5°	4075.6	4093.8	4060.0	3997.6	3883.1	3773.9	3594.4	3325.2	3045.6	2955.9
7.5°	4617.9	4628.3	4615.3	4558.0	4448.8	4325.3	4125.0	3806.4	3391.6	3292.7
10°	5008.0	5041.8	5037.9	5015.8	4943.0	4842.8	4629.6	4266.7	3779.1	3651.6
12.5°	5266.8	5304.5	5326.6	5376.0	5372.1	5308.4	5121.1	4737.5	4165.3	4015.8
15°	5342.2	5382.5	5467.1	5581.5	5682.9	5715.4	5584.1	5199.2	4590.6	4399.4
17.5°	5299.3	5361.7	5463.2	5643.9	5866.3	6013.2	5998.9	5645.2	4976.8	4758.3
20°	5394.2	5454.1	5533.4	5685.5	5944.3	6210.9	6317.5	6071.8	5360.4	5131.5
22.5°	5919.6	5909.2	5917.0	5941.7	6096.5	6360.5	6580.2	6459.3	5740.2	5506.1
25°	6751.9	6705.1	6625.8	6491.8	6452.8	6580.2	6809.1	6802.6	6140.7	5889.7
27.5°	7706.4	7698.6	7512.7	7190.1	7008.1	6958.7	7067.9	7136.8	6537.3	6269.4
30°	8620.6	8641.4	8390.5	8031.5	7697.3	7503.5	7404.7	7454.1	6940.5	6679.1
32.5°	9416.5	9438.6	9165.5	8745.5	8331.9	8097.9	7889.8	7767.5	7380.0	7095.2
35°	10088.8	10110.9	9797.5	9333.3	8892.4	8680.4	8445.1	8110.9	7822.2	7556.9
37.5°	10689.6	10683.1	10263.1	9794.9	9361.9	9194.1	9070.6	8533.5	8277.3	8021.1
40°	11044.7	11072.0	10713.0	10196.8	9776.7	9654.5	9646.7	9057.6	8802.7	8554.3
42.5°	11148.7	11196.8	10936.7	10512.8	10131.7	9999.1	10203.3	9624.6	9413.9	9172.0
45°	10961.4	11008.2	10889.9	10596.0	10373.6	10287.8	10681.8	10212.4	10066.7	9827.4
47.5°	10415.2	10473.8	10502.4	10439.9	10437.3	10524.5	11111.0	10831.4	10841.8	10597.3
50°	9358.0	9456.8	9719.5	9940.6	10282.6	10711.7	11528.4	11502.4	11715.7	11505.0
52.5°	7435.9	7576.4	8481.5	9086.2	9854.7	10676.6	11987.5	12579.2	13248.9	12940.7
55°	5975.5	5975.5	6711.6	7843.0	9019.9	10445.1	12187.7	13278.8	14293.2	14220.3
57.5°	4871.5	4930.0	5399.4	6399.5	7811.8	9893.8	12311.3	13718.4	15134.5	15081.2
60°	3006.6	3132.8	4019.7	5006.7	6437.2	8911.9	12233.3	14163.1	16155.4	16198.3
62.5°	1693.2	1740.0	2135.3	3602.2	5005.4	7592.0	11636.4	14411.5	17461.0	17643.1
65°	1169.1	1192.5	1344.7	2242.0	3469.6	6044.5	10469.9	14256.7	18769.3	19137.3
67.5°	849.2	860.9	955.8	1369.4	2058.6	4382.5	8641.4	13476.5	19462.4	20077.5
70°	652.8	660.6	729.5	899.9	1215.9	2704.9	6275.9	11925.1	18960.4	19695.2
72.5°	530.6	538.4	591.7	665.8	806.3	1599.5	3803.8	9684.4	16744.5	17537.8
75°	447.4	457.8	505.9	554.0	632.0	1027.3	1784.2	6744.1	12592.2	13112.4
77.5°	248.4	228.9	410.9	459.1	533.2	650.2	834.9	3968.9	7052.3	7196.6
80°	154.8	160.0	326.4	369.3	409.6	327.7	382.3	1528.0	2444.8	2322.6
82.5°	9.1	20.8	251.0	266.6	280.9	140.4	144.3	518.9	589.1	541.0
85°	0.0	0.0	114.4	92.3	97.5	40.3	41.6	120.9	79.3	85.8
87.5°	0.0	0.0	0.0	2.6	0.0	3.9	7.8	10.4	3.9	5.2
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°
2414.9	0°	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9	2414.9
2538.5	2.5°	2447.4	2356.4	2171.7	1991.0	1844.0	1707.5	1609.9	1517.6	1470.8	1468.2
2702.3	5°	2521.6	2330.4	1961.1	1634.7	1372.0	1161.3	1024.7	927.2	877.8	860.9
2903.9	7.5°	2625.6	2338.2	1776.4	1322.5	1013.0	832.3	754.3	723.0	712.6	700.9
3131.5	10°	2756.9	2356.4	1611.2	1065.1	798.5	707.4	676.2	663.2	655.4	647.6
3387.7	12.5°	2903.9	2373.3	1447.4	884.3	702.2	655.4	633.3	617.7	607.3	598.2
3650.3	15°	3046.9	2383.7	1277.0	758.2	652.8	615.1	591.7	574.8	560.5	550.1
3907.8	17.5°	3188.7	2398.0	1117.1	682.7	612.5	574.8	551.4	530.6	518.9	507.2
4178.3	20°	3346.0	2395.4	966.2	629.4	572.2	534.5	509.8	490.3	478.6	465.6
4464.4	22.5°	3491.7	2382.4	833.6	583.9	530.6	494.2	466.9	447.4	435.6	425.2
4757.0	25°	3659.4	2372.0	723.0	542.3	491.6	455.2	425.2	407.0	394.0	384.9
5050.9	27.5°	3820.7	2356.4	642.4	504.6	453.9	418.7	390.1	369.3	357.6	351.1
5353.9	30°	3979.4	2352.5	612.5	468.2	420.0	384.9	356.3	336.8	327.7	325.1
5686.8	32.5°	4170.5	2362.9	625.5	455.2	388.8	353.7	326.4	312.1	303.0	303.0
6057.5	35°	4374.7	2360.3	645.0	466.9	368.0	322.5	301.7	292.6	283.5	283.5
6468.4	37.5°	4630.9	2364.2	660.6	486.4	360.2	296.5	284.8	273.1	267.9	267.9
6918.4	40°	5013.2	2492.9	652.8	503.3	357.6	278.3	254.9	251.0	247.1	247.1
7426.8	42.5°	5481.4	2772.5	663.2	504.6	356.3	265.3	234.1	241.9	232.8	231.5
8000.3	45°	5993.7	3078.1	729.5	477.3	355.0	258.8	223.7	232.8	218.5	218.5
8664.8	47.5°	6502.2	3381.1	797.2	438.2	351.1	257.5	214.6	209.4	205.5	206.8
9530.9	50°	7203.1	3628.2	823.2	384.9	342.0	254.9	197.7	199.0	196.4	199.0
10752.1	52.5°	7966.5	3680.3	792.0	325.1	316.0	247.1	186.0	191.2	189.9	192.5
11611.6	55°	8442.5	3624.3	654.1	270.5	275.7	215.9	174.3	184.7	184.7	184.7
12451.7	57.5°	8934.0	3386.4	464.3	219.8	228.9	176.9	163.9	178.2	176.9	175.6
13463.5	60°	9287.8	3001.4	305.6	180.8	182.1	145.6	152.2	167.8	166.5	160.0
14506.4	62.5°	9551.7	2576.2	196.4	153.5	139.1	131.3	139.1	152.2	146.9	132.6
15390.7	65°	9521.8	1987.1	150.9	131.3	114.4	114.4	120.9	132.6	117.0	93.6
15559.8	67.5°	8966.5	1344.7	124.8	110.5	96.2	94.9	100.1	110.5	100.1	79.3
14693.7	70°	7974.3	879.1	100.1	85.8	76.7	70.2	80.6	94.9	84.5	63.7
12508.9	72.5°	6472.3	535.8	75.4	62.4	55.9	45.5	63.7	78.0	67.6	46.8
8698.7	75°	4187.4	273.1	52.0	40.3	29.9	27.3	46.8	58.5	46.8	28.6
3859.7	77.5°	1602.1	114.4	28.6	18.2	15.6	13.0	26.0	35.1	19.5	6.5
747.8	80°	308.2	48.1	14.3	9.1	7.8	5.2	3.9	2.6	0.0	0.0
132.6	82.5°	53.3	15.6	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
26.0	85°	18.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	6.5	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°
2414.9
1465.6
858.3
698.3
645.0
595.6
548.8
505.9
464.3
423.9
383.6
351.1
323.8
303.0
283.5
267.9
247.1
230.2
218.5
206.8
199.0
192.5
184.7
175.6
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130.0
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