

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: P943037

Luminaire Tested: **GALN-SB7B-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

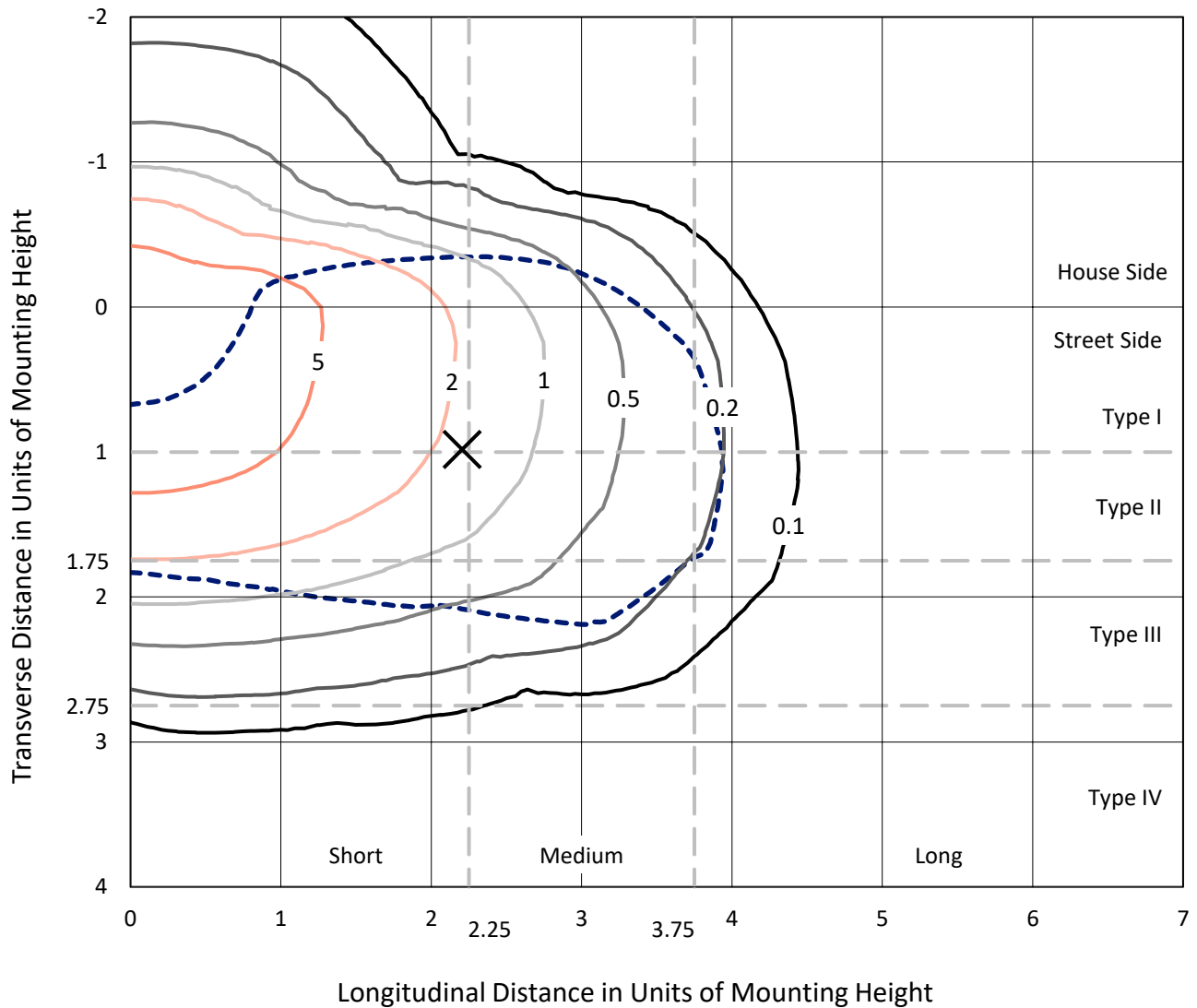
Lumens per Lamp: N/A  
Luminaire Lumens: 34846 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

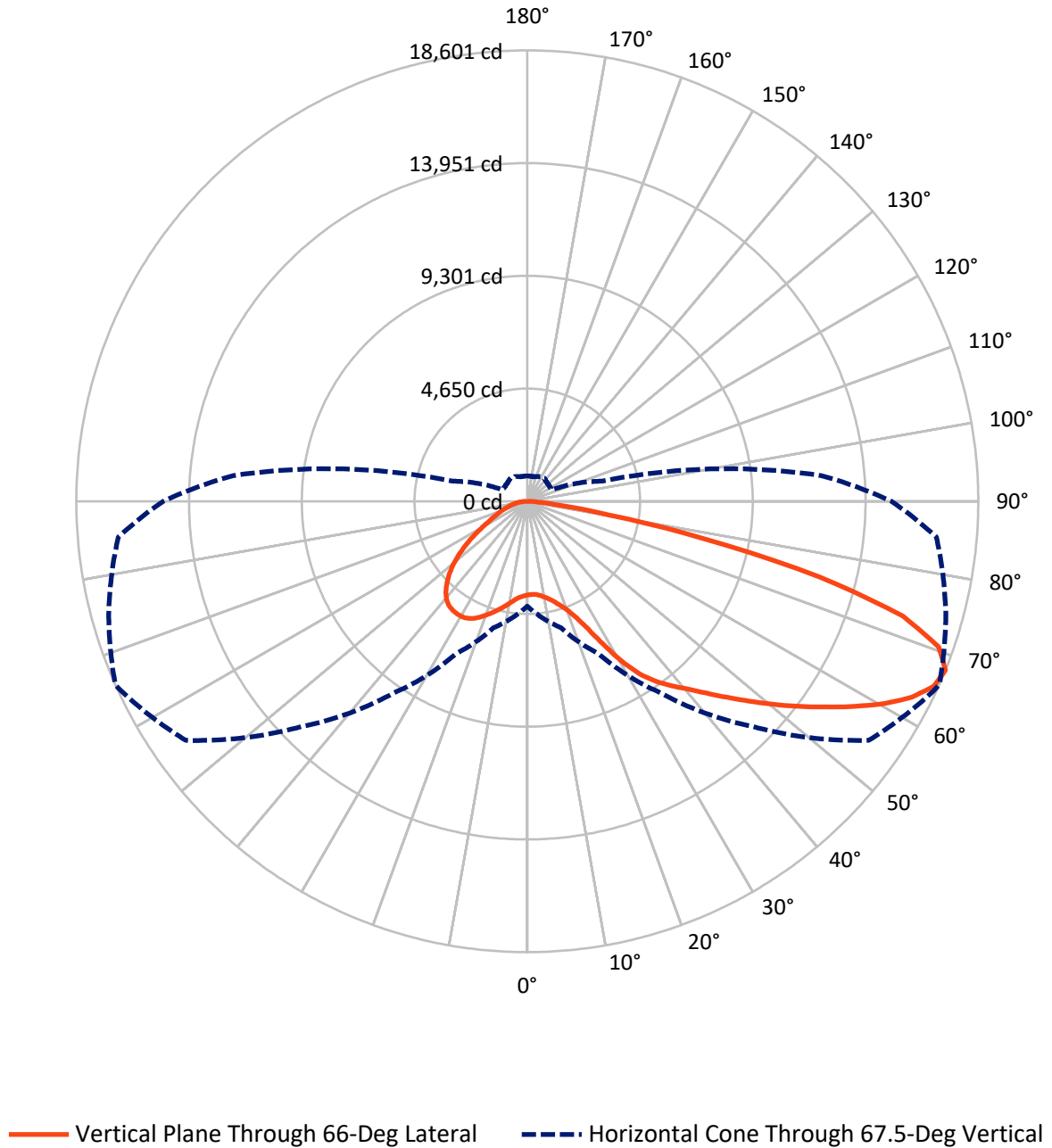
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - 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	8664.4	0.0	8664.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	26181.6	0.0	26181.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	34846.0	0.0	34846.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.2	1.1
10°-20°	1266.0	3.6
20°-30°	2440.1	7.0
30°-40°	4278.5	12.3
40°-50°	6360.7	18.3
50°-60°	8062.8	23.1
60°-70°	7889.2	22.6
70°-80°	3763.3	10.8
80°-90°	402.2	1.2
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°	34846.0	100.0
0°-180°	34846.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943037

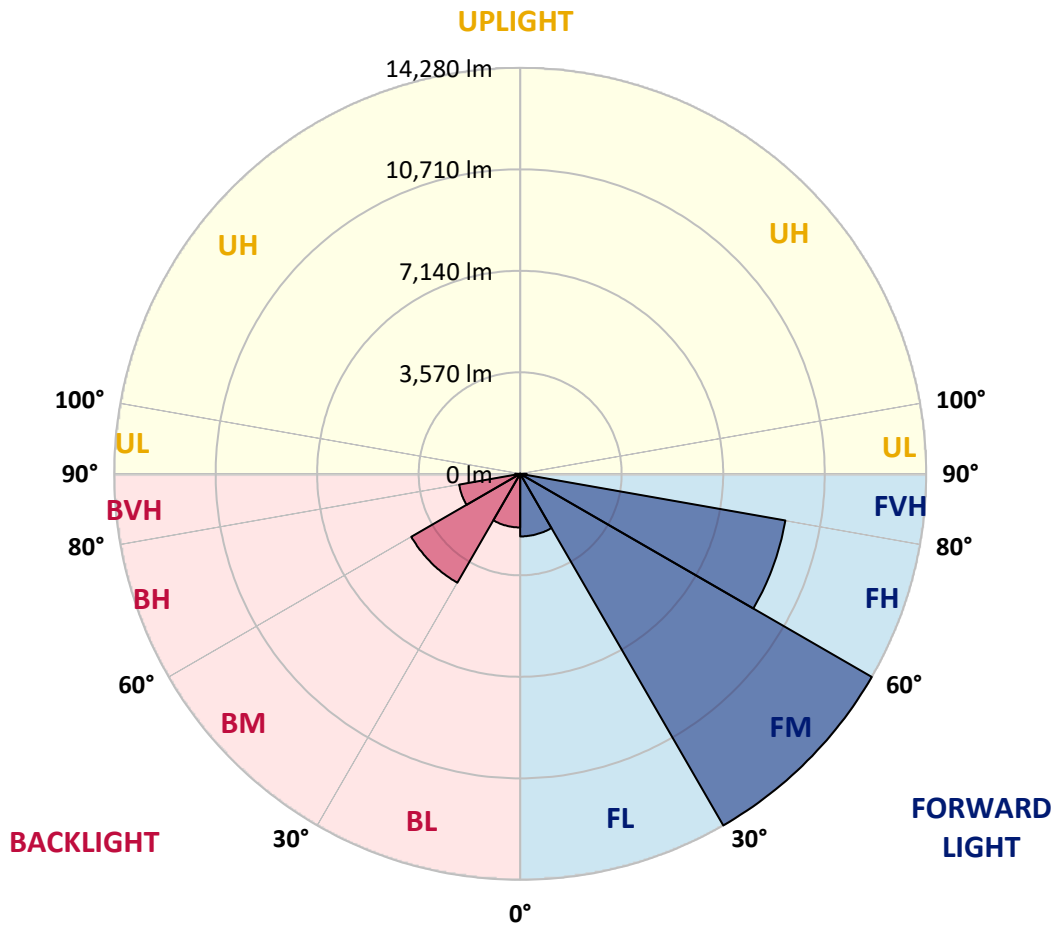
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.9	6.3			
FM (30°-60°)	14279.6	41.0			
FH (60°-80°)	9472.1	27.2			G4/12000
FVH (80°-90°)	228.0	0.7			G3/500
BL (0°-30°)	1887.4	5.4	B3/2500		
BM (30°-60°)	4422.4	12.7	B3/5000		
BH (60°-80°)	2180.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	174.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



REPORT NUMBER: P943037

CATALOG NUMBER: GALN-SB7B-827-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9
2.5°	3824.6	3846.6	3841.1	3831.9	3830.1	3833.8	3839.3	3844.7	3842.9	3852.1
5°	3813.6	3835.6	3833.8	3833.8	3841.1	3855.7	3864.9	3874.0	3864.9	3875.9
7.5°	3820.9	3837.4	3844.7	3852.1	3870.4	3897.8	3919.8	3939.9	3929.0	3941.8
10°	3914.3	3927.1	3934.5	3934.5	3947.3	3978.4	4000.4	4037.0	4027.8	4048.0
12.5°	4084.6	4097.4	4097.4	4090.1	4099.2	4119.4	4126.7	4167.0	4150.5	4183.4
15°	4293.3	4318.9	4298.8	4286.0	4289.6	4309.8	4307.9	4339.1	4322.6	4350.1
17.5°	4524.0	4556.9	4524.0	4522.1	4514.8	4536.8	4538.6	4566.1	4536.8	4556.9
20°	4796.8	4842.5	4815.1	4824.2	4807.8	4816.9	4826.1	4866.3	4820.6	4835.2
22.5°	5181.2	5236.2	5206.9	5241.7	5230.7	5223.4	5221.5	5292.9	5221.5	5227.0
25°	5741.5	5807.4	5756.1	5803.7	5803.7	5827.5	5855.0	5946.5	5827.5	5792.7
27.5°	6569.0	6634.9	6534.2	6563.5	6554.4	6613.0	6583.7	6810.7	6682.5	6625.8
30°	7565.0	7682.2	7491.8	7484.4	7475.3	7568.7	7610.8	7760.9	7630.9	7574.1
32.5°	8641.5	8764.2	8537.2	8471.2	8436.5	8493.2	8458.4	8579.3	8489.6	8401.7
35°	9780.3	9901.1	9685.1	9556.9	9417.8	9298.8	9174.3	9205.4	9121.2	8987.5
37.5°	10856.8	11078.4	10849.5	10712.2	10455.9	10223.4	9875.5	9730.9	9652.1	9529.5
40°	11953.5	12079.8	11905.9	11788.7	11510.4	11146.1	10589.5	10283.8	10177.6	10058.6
42.5°	12760.9	12881.7	12788.3	12707.8	12489.9	12067.0	11347.5	10964.8	10811.1	10677.4
45°	13401.7	13491.4	13432.8	13462.1	13368.7	12958.6	12132.9	11695.3	11536.1	11373.1
47.5°	13659.8	13755.0	13848.4	14022.3	14181.6	13879.5	12976.9	12486.3	12317.8	12151.2
50°	13630.5	13727.6	13998.5	14368.4	14862.7	14762.0	13866.7	13328.4	13172.8	12982.4
52.5°	13396.2	13506.0	13853.9	14469.0	15256.3	15422.9	14773.0	14198.1	14051.6	13824.6
55°	12781.0	12846.9	13368.7	14240.2	15349.7	15884.3	15660.9	15124.5	14978.0	14661.3
57.5°	11640.4	11735.6	12495.4	13623.2	15115.3	16197.4	16440.9	16098.5	15957.5	15501.6
60°	10152.0	10303.9	11173.6	12587.0	14518.5	16195.5	17149.4	17056.0	16938.8	16329.2
62.5°	8467.6	8643.3	9480.0	11122.3	13474.9	15736.0	17592.4	17857.9	17797.5	17092.6
65°	6503.1	6623.9	7457.0	9227.4	11851.0	14749.2	17643.7	18405.3	18416.3	17673.0
67.5°	4329.9	4677.8	5400.9	6924.2	9675.9	13136.2	17193.3	18495.0	18601.2	17872.6
70°	2112.8	2570.5	3279.0	4500.2	6924.2	10662.8	16016.1	17759.0	17995.2	17290.4
72.5°	877.0	1025.3	1411.6	2220.8	3974.7	7195.2	13650.7	15763.4	16201.0	15320.4
75°	591.4	640.8	807.4	1138.8	1810.7	3548.1	9844.4	11753.9	12458.8	11570.8
77.5°	455.9	487.0	587.7	796.4	1076.5	1342.0	5269.1	7083.5	7447.8	6894.9
80°	358.8	382.6	439.4	580.4	763.5	717.7	1796.0	3209.4	3420.0	2868.9
82.5°	311.2	320.4	314.9	393.6	507.1	419.3	589.5	1184.5	1307.2	948.4
85°	225.2	250.8	261.8	243.5	269.1	212.4	241.7	419.3	461.4	411.9
87.5°	91.5	135.5	166.6	157.5	98.9	60.4	75.1	122.7	141.0	153.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943037  
 CATALOG NUMBER: GALN-SB7B-827-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3864.9	0°	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9
3866.7	2.5°	3868.5	3881.4	3890.5	3901.5	3908.8	3919.8	3941.8	3954.6	3956.4	3965.6
3896.0	5°	3903.3	3921.6	3941.8	3971.1	4004.0	4031.5	4073.6	4102.9	4113.9	4123.0
3967.4	7.5°	3978.4	4004.0	4040.6	4091.9	4139.5	4176.1	4227.4	4262.2	4297.0	4309.8
4080.9	10°	4090.1	4126.7	4179.8	4249.4	4300.6	4348.2	4401.3	4430.6	4465.4	4480.0
4216.4	12.5°	4229.2	4267.7	4337.2	4434.3	4481.9	4514.8	4533.1	4525.8	4533.1	4546.0
4379.3	15°	4388.5	4430.6	4509.3	4613.7	4646.6	4617.4	4577.1	4540.5	4535.0	4538.6
4577.1	17.5°	4577.1	4608.2	4699.7	4787.6	4763.8	4643.0	4555.1	4496.5	4467.2	4458.1
4829.7	20°	4840.7	4840.7	4915.8	4970.7	4811.4	4606.4	4469.1	4373.9	4313.4	4287.8
5173.9	22.5°	5161.1	5131.8	5179.4	5141.0	4802.3	4503.8	4313.4	4148.7	4057.1	4020.5
5655.4	25°	5567.6	5532.8	5520.0	5281.9	4736.4	4340.9	4031.5	3831.9	3751.4	3731.2
6349.3	27.5°	6180.9	6093.0	5926.4	5358.8	4615.5	4084.6	3701.9	3517.0	3471.3	3473.1
7240.9	30°	6997.4	6821.7	6413.4	5371.7	4417.8	3722.1	3365.1	3233.2	3211.3	3220.4
7989.7	32.5°	7753.6	7587.0	6911.4	5313.1	4113.9	3366.9	3063.0	2975.1	2942.1	2953.1
8561.0	35°	8346.8	8301.0	7372.8	5230.7	3740.4	3033.7	2792.0	2717.0	2652.9	2638.2
9099.2	37.5°	8907.0	8888.7	7718.8	5115.3	3370.6	2797.5	2574.1	2475.3	2381.9	2330.6
9694.2	40°	9522.1	9503.8	7945.8	4937.7	3042.8	2592.5	2378.2	2248.3	2132.9	2039.5
10368.0	42.5°	10214.2	10106.2	8053.8	4683.3	2764.6	2418.5	2219.0	2043.2	1891.2	1805.2
11129.6	45°	10970.3	10726.8	8052.0	4359.2	2530.2	2259.2	2048.7	1799.7	1658.7	1578.2
11911.4	47.5°	11772.2	11320.0	7953.1	4000.4	2303.2	2083.5	1785.1	1594.7	1501.3	1451.8
12760.9	50°	12599.8	11874.8	7784.7	3588.4	2070.7	1883.9	1620.3	1490.3	1418.9	1373.1
13603.1	52.5°	13377.9	12378.2	7581.5	3121.6	1834.5	1689.9	1547.1	1446.4	1371.3	1320.0
14419.6	55°	14101.1	12812.1	7294.0	2643.7	1642.3	1559.9	1512.3	1428.0	1342.0	1281.6
15249.0	57.5°	14743.7	13094.1	6797.9	2195.2	1504.9	1470.2	1475.6	1396.9	1298.1	1246.8
16065.5	60°	15278.3	13301.0	6063.7	1779.6	1393.3	1382.3	1418.9	1338.3	1223.0	1164.4
16755.8	62.5°	15598.7	13297.3	5162.9	1457.3	1298.1	1301.7	1343.8	1265.1	1147.9	1093.0
17116.4	65°	15571.2	12971.4	4174.3	1246.8	1206.5	1210.2	1265.1	1184.5	1085.7	1052.7
16935.2	67.5°	15020.1	12176.8	3202.1	1109.5	1105.8	1122.3	1186.4	1129.6	1047.2	1043.6
15855.0	70°	13528.0	10527.3	2306.8	999.6	1001.5	1025.3	1109.5	1094.8	1027.1	1034.4
13330.3	72.5°	10847.7	8026.4	1548.9	884.3	886.1	924.6	1036.2	1067.4	1007.0	1104.0
9458.1	75°	7224.5	5005.5	996.0	761.6	763.5	812.9	972.2	1014.3	952.0	1100.3
4921.3	77.5°	3471.3	2250.1	721.3	640.8	640.8	686.6	840.4	908.1	811.1	855.0
1581.8	80°	1199.2	845.8	567.6	516.3	505.3	536.4	708.5	787.3	699.4	644.5
516.3	82.5°	472.4	439.4	455.9	401.0	364.3	384.5	551.1	649.9	514.5	465.0
291.1	85°	271.0	285.6	322.2	265.5	210.5	236.2	404.6	466.9	388.1	342.4
95.2	87.5°	73.2	100.7	148.3	137.3	95.2	100.7	192.2	258.1	223.4	172.1
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>
3864.9
3963.7
4121.2
4311.6
4487.4
4549.6
4551.4
4470.9
4282.3
4015.0
3734.9
3478.6
3251.6
2967.8
2649.2
2332.5
2048.7
1810.7
1574.5
1440.9
1356.6
1298.1
1257.8
1213.8
1138.8
1076.5
1050.9
<i>1049.1</i>
1032.6
1118.6
1109.5
783.6
604.2
463.2
349.7
177.6
0.0

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