

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: P941972

Luminaire Tested: **GALN-SB5D-735-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

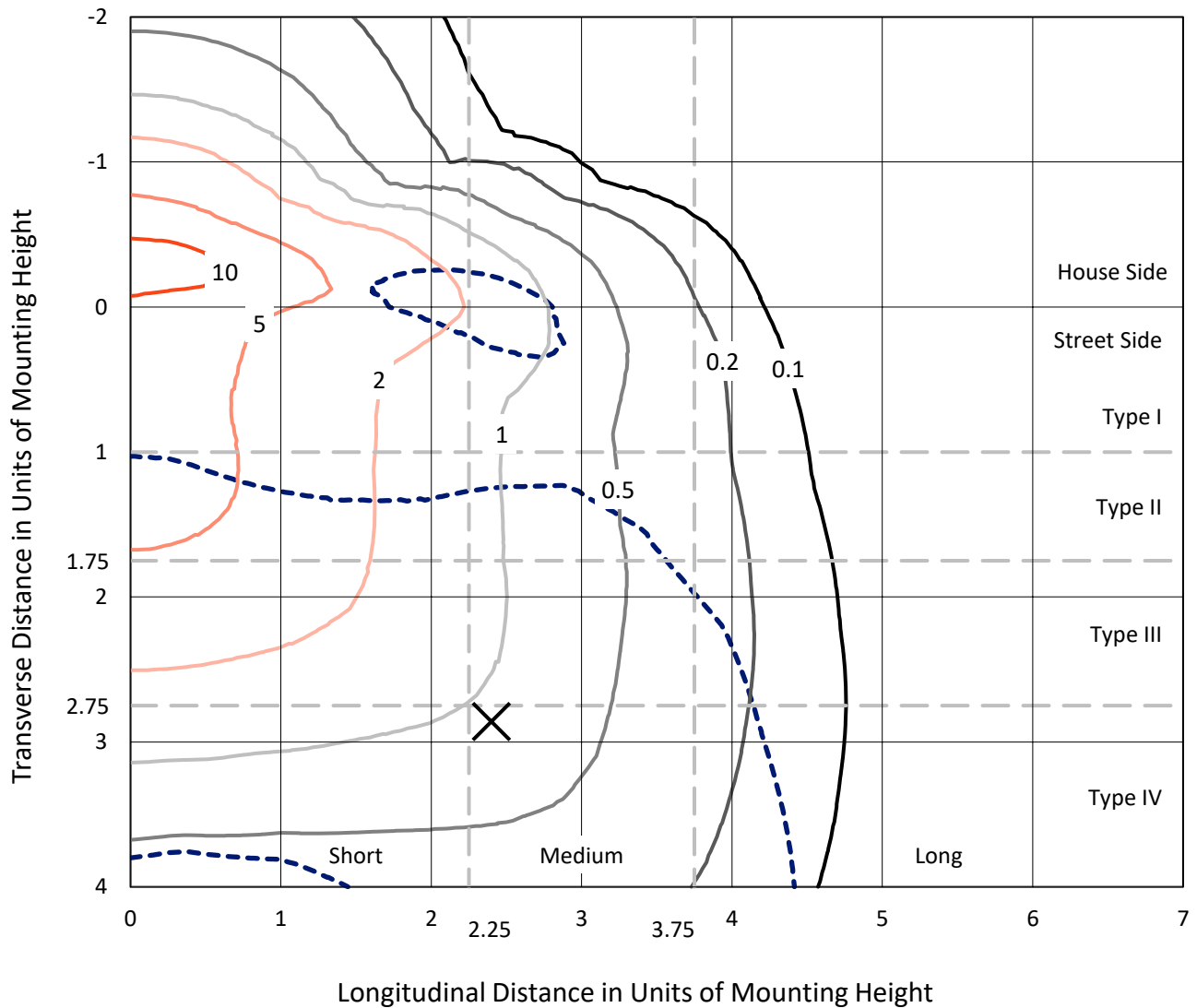
Lumens per Lamp: N/A  
Luminaire Lumens: 50955 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

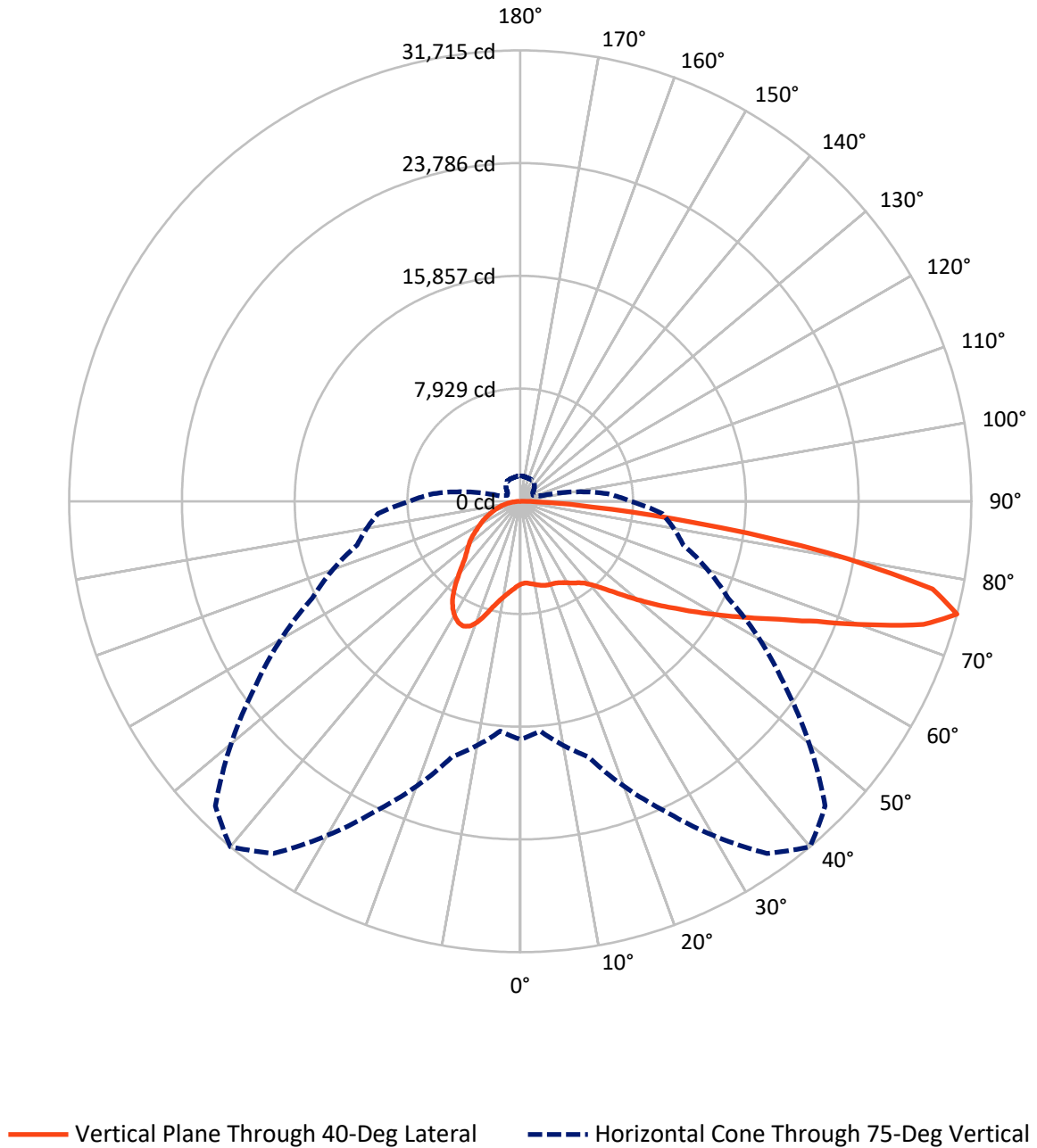
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type IV - 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	15787.6	0.0	15787.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	35167.4	0.0	35167.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	50955.0	0.0	50955.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.6	1.1
10°-20°	1952.8	3.8
20°-30°	3565.6	7.0
30°-40°	5057.0	9.9
40°-50°	6828.5	13.4
50°-60°	9186.1	18.0
60°-70°	11659.3	22.9
70°-80°	10581.6	20.8
80°-90°	1542.5	3.0
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°	50955.0	100.0
0°-180°	50955.0	100.0

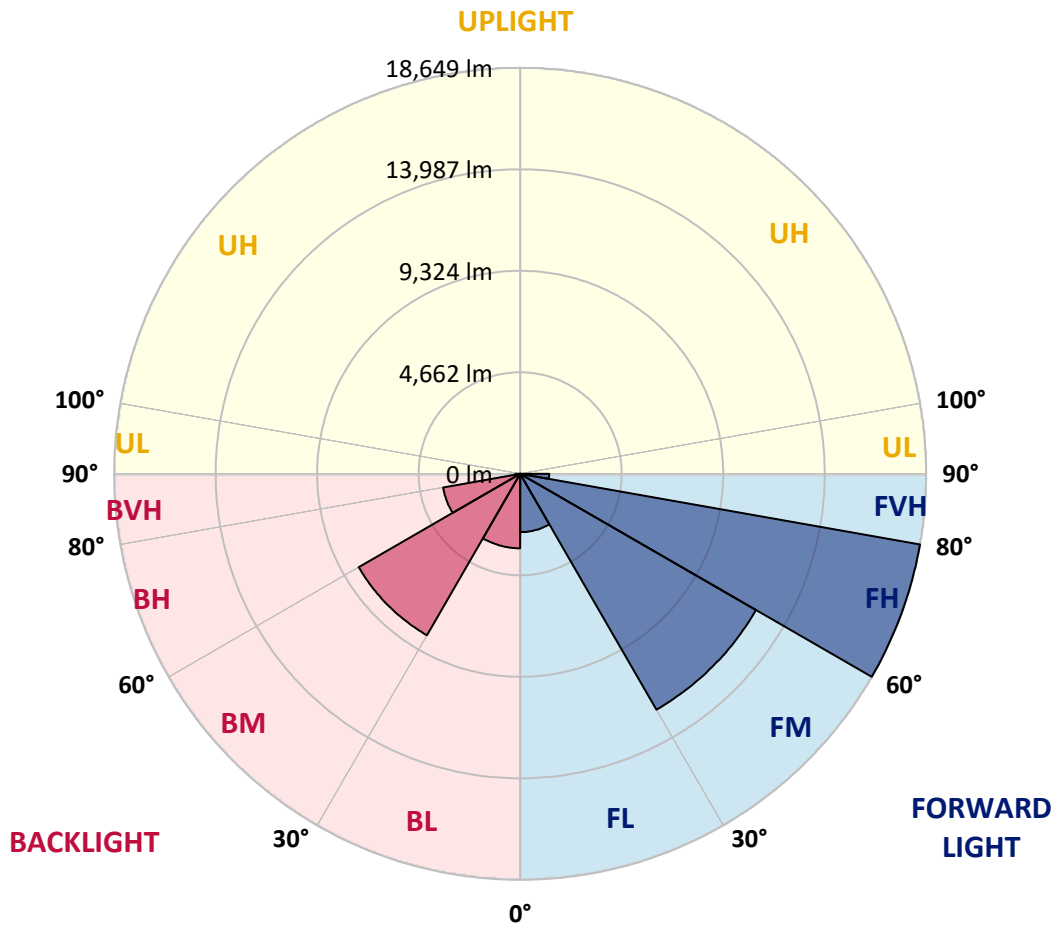


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.3	5.3			
FM (30°-60°)	12508.3	24.5			
FH (60°-80°)	18648.7	36.6			G5
FVH (80°-90°)	1330.1	2.6			G5
BL (0°-30°)	3419.7	6.7	B4/5000		
BM (30°-60°)	8563.3	16.8	B5		
BH (60°-80°)	3592.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	212.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8
2.5°	5737.6	5770.0	5761.9	5751.1	5751.1	5753.8	5751.1	5770.0	5788.9	5807.9
5°	5797.0	5829.5	5813.3	5799.7	5788.9	5786.2	5778.1	5775.4	5786.2	5810.6
7.5°	5913.3	5945.7	5921.4	5897.0	5875.4	5864.6	5853.8	5837.6	5829.5	5843.0
10°	6043.0	6075.4	6045.7	6002.4	5967.3	5953.8	5943.0	5926.8	5916.0	5924.1
12.5°	6172.7	6205.1	6164.6	6105.1	6059.2	6051.1	6037.6	6032.2	6029.5	6026.8
15°	6294.3	6321.3	6270.0	6199.7	6151.1	6137.6	6124.1	6132.2	6145.7	6161.9
17.5°	6388.9	6415.9	6340.3	6248.4	6202.4	6197.0	6188.9	6215.9	6253.8	6294.3
20°	6475.4	6502.4	6405.1	6280.8	6226.8	6226.8	6229.5	6286.2	6340.3	6399.7
22.5°	6597.0	6618.6	6499.7	6329.5	6251.1	6256.5	6278.1	6334.9	6402.4	6483.5
25°	6778.1	6794.3	6648.4	6421.3	6332.2	6348.4	6367.3	6394.3	6459.2	6553.8
27.5°	7070.0	7083.5	6891.6	6583.5	6448.4	6475.4	6502.4	6483.5	6513.2	6594.3
30°	7480.8	7488.9	7245.6	6837.5	6645.7	6659.2	6664.6	6586.2	6529.4	6594.3
32.5°	7967.2	7964.5	7675.3	7145.6	6870.0	6856.5	6810.5	6656.5	6524.0	6580.8
35°	8721.2	8691.5	8318.6	7578.0	7124.0	7040.2	6932.1	6734.8	6551.1	6567.3
37.5°	9969.8	9877.9	9361.8	8286.1	7502.4	7288.9	7129.4	6861.9	6610.5	6561.9
40°	11377.9	11261.7	10694.1	9256.4	8069.9	7726.7	7469.9	7042.9	6707.8	6586.2
42.5°	13048.1	12883.2	12272.4	10399.5	8788.8	8291.5	7905.1	7272.7	6851.1	6664.6
45°	15099.3	14880.4	14015.6	11688.7	9694.2	9032.0	8515.8	7621.3	7070.0	6815.9
47.5°	17172.2	17226.3	15996.6	13164.3	10780.6	9945.5	9280.7	8145.6	7388.9	7059.2
50°	19374.8	19412.7	17966.8	14799.4	12013.0	10977.9	10140.1	8732.1	7832.1	7405.1
52.5°	21093.7	21099.1	19755.9	16510.1	13296.7	12113.0	11067.1	9402.3	8345.6	7864.5
55°	22169.3	22155.8	21009.9	18128.9	14772.3	13304.8	12094.1	10164.4	8972.6	8405.0
57.5°	22950.3	22909.8	21874.7	19520.8	16345.2	14712.9	13256.2	11029.2	9713.1	9048.3
60°	23247.6	23223.3	22461.2	20723.4	17999.2	16269.6	14596.7	11996.8	10553.6	9807.7
62.5°	23361.1	23407.1	23036.8	21888.2	19769.4	17993.8	16069.6	13153.5	11499.5	10667.1
65°	23761.1	23844.9	23769.2	23412.5	21769.3	20012.6	18023.5	14529.1	12531.9	11588.7
67.5°	24553.0	24636.8	24669.2	25236.7	24212.5	22528.7	20461.3	16242.5	13739.9	12545.4
70°	24534.1	24509.7	25082.7	26688.0	27271.8	26012.4	23747.6	18350.5	15180.4	13340.0
72.5°	22331.5	22136.9	23490.9	26671.8	29817.6	29650.1	27760.9	21069.3	16423.6	13437.3
75°	16753.3	16234.4	18626.2	24036.8	30241.9	31714.8	30312.2	22755.8	16129.0	11872.5
77.5°	7164.6	6643.0	9461.7	17793.8	27066.4	29647.4	27971.7	19853.2	12875.1	7851.0
80°	1875.6	1872.9	2859.3	8067.2	18407.3	21893.6	19207.3	12821.1	7356.4	2805.3
82.5°	775.6	756.7	1051.3	3137.7	8994.2	12285.9	10026.6	5718.7	2656.6	759.4
85°	289.2	286.5	510.8	1083.7	3172.8	5067.3	3667.4	1462.1	662.1	370.3
87.5°	81.1	78.4	110.8	375.7	772.9	1172.9	627.0	240.5	186.5	145.9
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°
5826.8	0°	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8
5837.6	2.5°	5845.7	5859.2	5883.5	5902.4	5926.8	5953.8	5991.6	6016.0	6040.3	6056.5
5851.1	5°	5870.0	5899.7	5961.9	6024.1	6097.0	6164.6	6243.0	6299.7	6345.7	6359.2
5899.7	7.5°	5924.1	5972.7	6078.1	6183.5	6299.7	6410.5	6524.0	6621.3	6699.7	6729.4
5986.2	10°	6018.7	6083.5	6232.2	6380.8	6534.8	6705.1	6851.1	6991.6	7102.4	7148.3
6088.9	12.5°	6137.6	6218.6	6413.2	6618.6	6832.1	7067.3	7256.4	7429.4	7567.2	7629.4
6232.2	15°	6291.6	6397.0	6645.7	6921.3	7234.8	7561.8	7802.4	7994.2	8148.3	8224.0
6380.8	17.5°	6459.2	6599.7	6913.2	7329.4	7778.0	8207.7	8488.8	8629.4	8788.8	8861.8
6518.6	20°	6621.3	6794.3	7242.9	7848.3	8445.6	8902.3	9129.3	9167.2	9178.0	9186.1
6648.4	22.5°	6788.9	7021.3	7656.4	8502.3	9142.8	9459.0	9491.5	9329.3	9102.3	8996.9
6775.4	25°	6972.7	7280.8	8196.9	9223.9	9742.8	9780.7	9532.0	9137.4	8707.7	8510.4
6878.1	27.5°	7151.0	7580.7	8845.6	9913.1	10175.2	9842.8	9307.7	8748.3	8229.4	8021.3
6951.0	30°	7329.4	7924.0	9561.7	10515.8	10372.5	9688.8	8953.7	8329.4	7807.8	7588.9
7015.9	32.5°	7510.5	8324.0	10386.0	10950.9	10337.4	9361.8	8513.1	7859.1	7399.7	7170.0
7072.7	35°	7715.9	8815.8	11167.1	11188.7	10102.3	8880.7	7932.1	7297.0	6897.0	6713.2
7140.2	37.5°	7983.4	9440.1	11856.2	11248.2	9691.5	8175.3	7210.5	6632.1	6302.4	6218.6
7240.2	40°	8315.9	10191.4	12383.2	11153.6	9083.4	7318.6	6421.3	5959.2	5772.7	5791.6
7375.4	42.5°	8748.3	11031.9	12753.5	10910.3	8237.5	6434.9	5729.5	5524.1	5613.3	5688.9
7578.0	45°	9310.4	11904.9	12983.2	10496.8	7280.8	5686.2	5321.4	5370.0	5437.6	5445.7
7905.1	47.5°	10029.3	12788.6	13134.6	9872.5	6305.1	5159.2	5061.9	5072.8	5059.2	5002.5
8394.2	50°	10926.5	13648.1	13269.7	9045.6	5475.4	4829.5	4699.8	4662.0	4475.5	4291.7
9045.6	52.5°	11948.1	14437.2	13326.4	8018.6	4829.5	4553.9	4343.1	4105.2	3756.6	3699.8
9864.4	55°	13083.2	15166.9	13180.5	6756.5	4286.3	4199.8	3880.9	3594.4	3556.6	3508.0
10942.8	57.5°	14439.9	15953.4	12883.2	5348.4	3729.6	3786.3	3475.5	3508.0	3440.4	3364.7
12329.2	60°	15923.6	16766.8	12361.6	4064.7	3153.9	3270.1	3370.1	3367.4	3348.5	3286.3
13791.3	62.5°	17258.7	17301.9	11334.6	3113.4	2648.5	2870.1	3143.1	3140.4	3124.2	3089.1
15318.2	65°	18053.3	17220.9	9621.2	2451.2	2232.3	2540.4	2835.0	2856.6	2859.3	2856.6
16466.8	67.5°	17912.7	16272.3	7270.0	1951.3	1889.1	2205.3	2529.6	2559.3	2581.0	2586.4
16612.8	70°	16323.6	14188.6	4740.3	1556.7	1583.7	1910.7	2240.4	2270.2	2289.1	2310.7
14415.6	72.5°	12723.8	10432.0	2713.4	1259.4	1316.2	1656.7	1954.0	1989.1	1999.9	2040.5
10032.0	75°	7753.7	6134.9	1464.8	991.8	1081.0	1416.2	1670.2	1710.7	1729.7	1778.3
4926.8	77.5°	3686.3	2656.6	835.1	772.9	870.2	1156.7	1410.7	1456.7	1405.3	1432.4
1359.4	80°	1245.9	986.4	527.0	589.2	664.8	902.7	1129.7	1175.6	1067.5	1062.1
451.3	82.5°	435.1	400.0	335.1	391.9	429.7	645.9	854.0	913.5	794.6	791.9
202.7	85°	170.3	162.2	186.5	213.5	256.7	397.3	562.1	591.9	489.2	394.6
59.5	87.5°	35.1	37.8	45.9	48.6	78.4	137.8	202.7	248.6	197.3	167.6
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>
5826.8
6045.7
6364.6
6732.1
7151.0
7629.4
8218.6
8859.1
9207.7
9026.6
8540.2
8045.6
7613.2
7199.7
6753.8
6278.1
5856.5
5759.2
5499.8
5045.7
4316.0
3718.8
3516.1
3351.2
3264.7
3075.5
2856.6
2591.8
2321.5
2056.7
1783.7
1410.7
1051.3
754.0
389.2
154.0
0.0

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