

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: P954905

Luminaire Tested: **GALN-SB8A-735-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954905  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-735-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

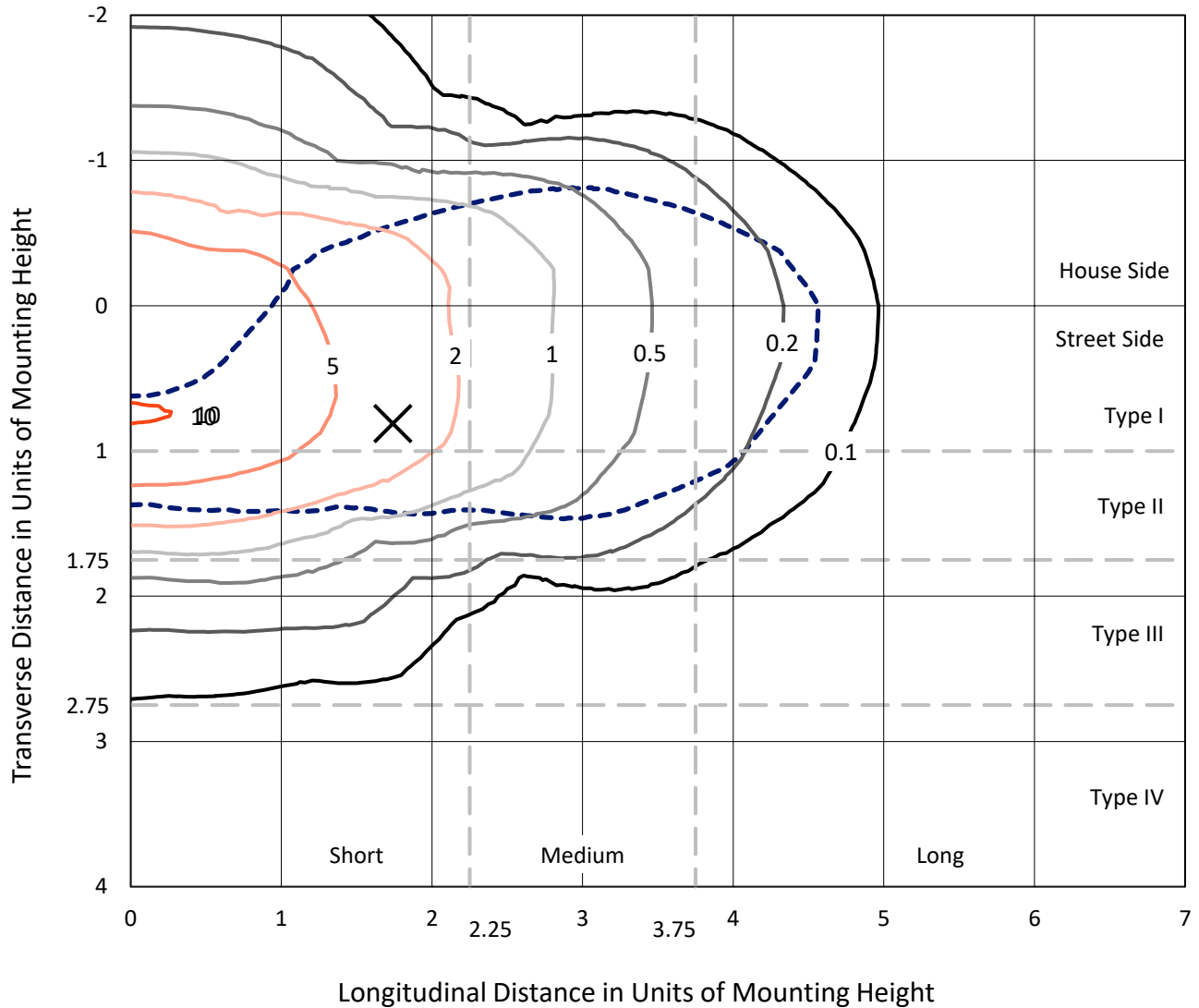
Lumens per Lamp: N/A  
Luminaire Lumens: 36759 lumens  
Efficiency: N/A  
Efficacy: 161.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

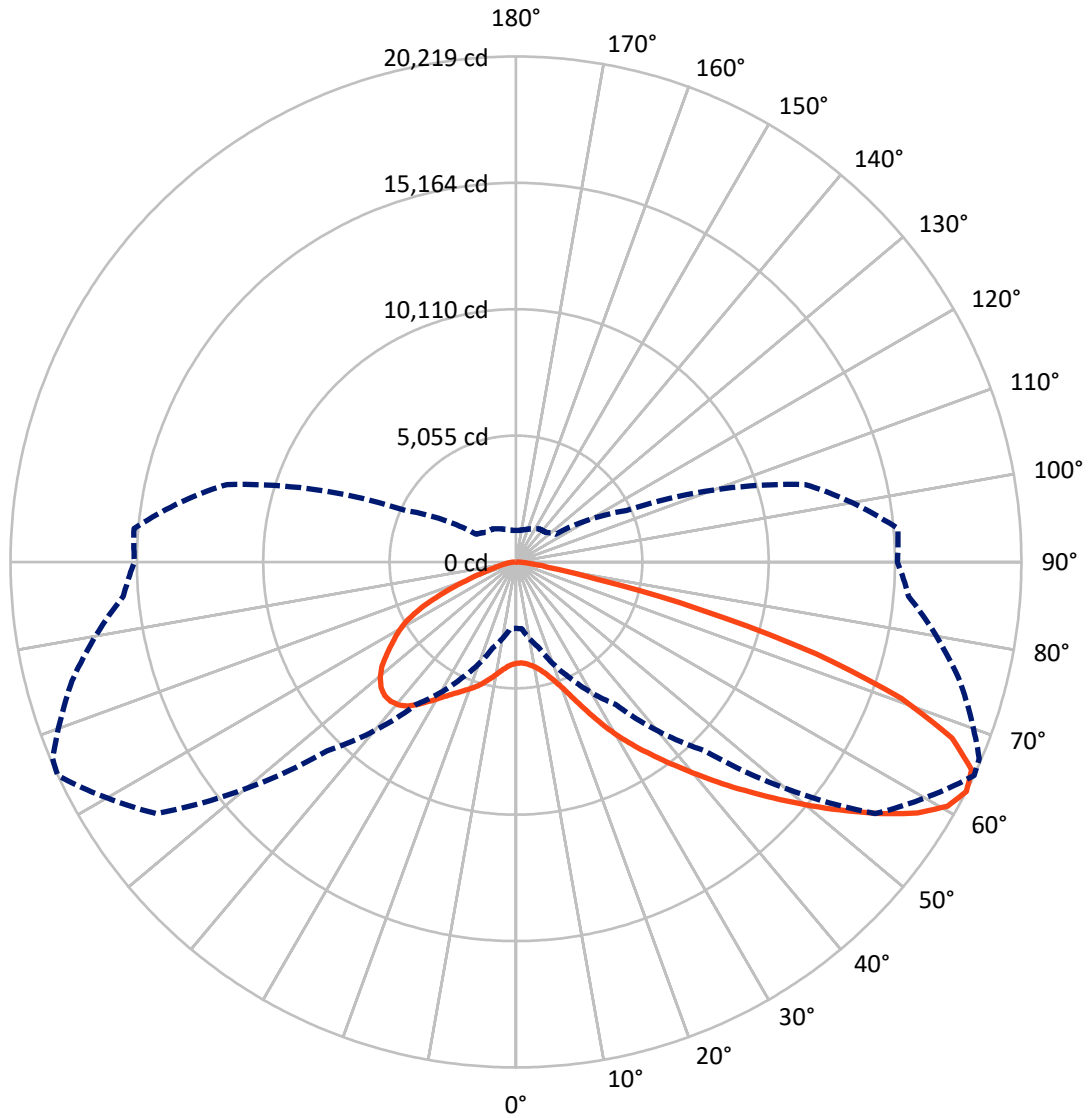
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11599.5	0.0	11599.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	25159.5	0.0	25159.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	36759.0	0.0	36759.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.9	1.1
10°-20°	1369.5	3.7
20°-30°	2776.8	7.6
30°-40°	4805.2	13.1
40°-50°	7271.7	19.8
50°-60°	8525.6	23.2
60°-70°	7147.7	19.4
70°-80°	3946.1	10.7
80°-90°	512.6	1.4
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°	36759.0	100.0
0°-180°	36759.0	100.0

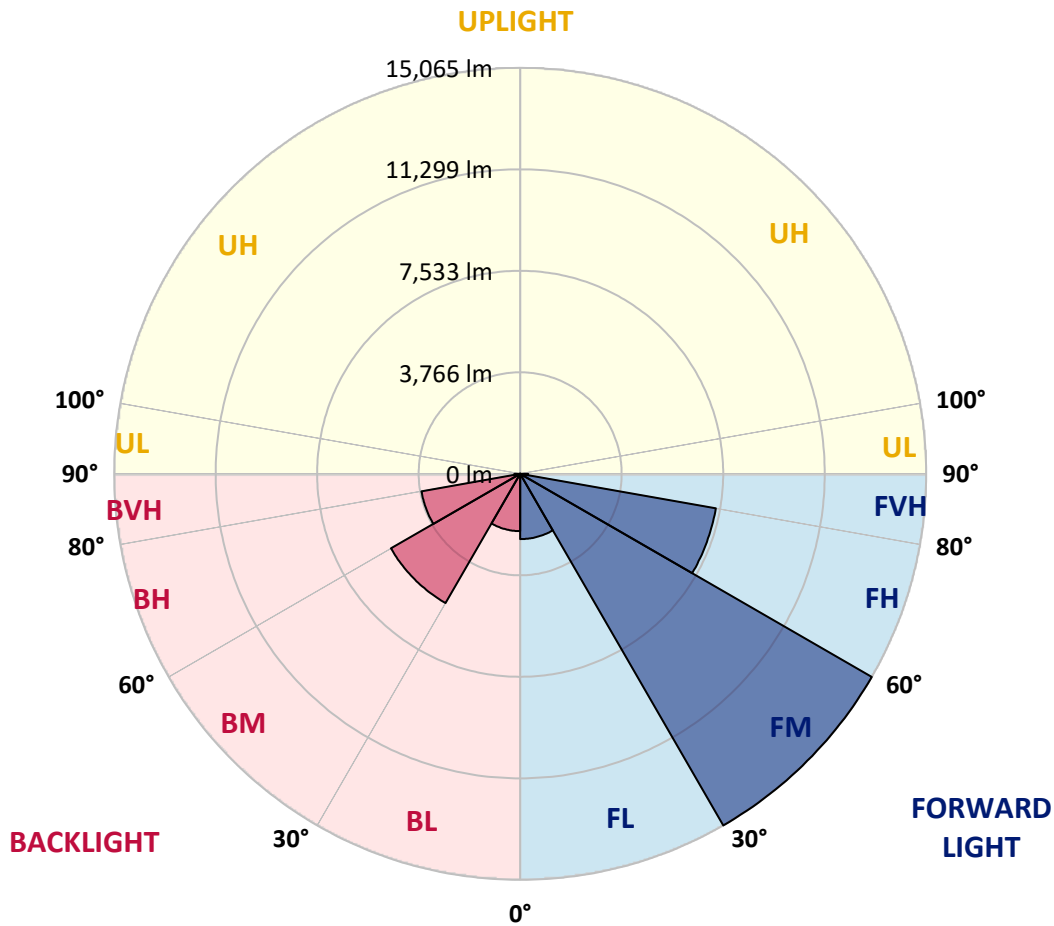


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2422.9	6.6			
FM (30°-60°)	15065.0	41.0			
FH (60°-80°)	7372.8	20.1			G3/7500
FVH (80°-90°)	298.7	0.8			G3/500
BL (0°-30°)	2127.2	5.8	B3/2500		
BM (30°-60°)	5537.5	15.1	B4/8500		
BH (60°-80°)	3721.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	213.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7
2.5°	4024.0	4012.5	4022.1	4022.1	4025.9	4024.0	4037.3	4041.1	4046.9	4058.3
5°	3983.9	3982.0	3999.2	4014.4	4029.7	4043.1	4060.2	4085.0	4088.8	4102.2
7.5°	3970.6	3959.1	3985.8	4004.9	4041.1	4073.6	4119.3	4161.3	4178.5	4184.2
10°	4073.6	4054.5	4079.3	4090.7	4121.2	4153.7	4207.1	4273.8	4292.9	4315.8
12.5°	4249.0	4228.0	4264.3	4281.4	4310.0	4338.7	4374.9	4439.7	4449.3	4491.2
15°	4489.3	4464.5	4487.4	4508.4	4556.1	4582.8	4619.0	4681.9	4681.9	4714.4
17.5°	4815.4	4783.0	4800.2	4807.8	4838.3	4878.4	4939.4	4994.7	5023.3	5011.9
20°	5301.7	5261.7	5261.7	5223.5	5212.1	5244.5	5324.6	5400.9	5431.4	5372.3
22.5°	6032.2	5974.9	5942.5	5812.8	5761.4	5765.2	5845.3	5938.7	5963.5	5858.6
25°	6960.9	6871.3	6827.4	6636.7	6520.4	6419.3	6482.2	6602.4	6636.7	6507.0
27.5°	7889.7	7895.4	7853.4	7624.6	7432.0	7247.0	7214.6	7340.4	7376.7	7229.8
30°	9192.2	9056.8	8976.7	8702.1	8427.5	8168.1	8034.6	8086.1	8095.6	7920.2
32.5°	10315.5	10281.2	10109.5	9869.2	9516.4	9110.2	8887.1	8805.1	8789.8	8540.0
35°	11595.2	11576.1	11394.9	11108.9	10727.4	10162.9	9760.5	9526.0	9506.9	9156.0
37.5°	12895.8	12895.8	12718.5	12405.7	12010.9	11305.3	10693.1	10321.2	10260.2	9802.5
40°	13933.3	13870.3	13902.8	13771.2	13319.2	12569.7	11728.7	11189.0	11107.0	10557.7
42.5°	14522.6	14501.6	14696.1	14843.0	14658.0	14059.1	12869.1	12129.2	12014.7	11389.2
45°	14654.2	14631.3	14978.4	15516.2	15775.5	15529.5	14108.7	13118.9	12979.7	12258.8
47.5°	14350.9	14305.2	14814.4	15663.0	16494.5	16927.4	15451.3	14192.6	13990.5	13105.6
50°	13439.3	13395.5	14165.9	15293.0	16736.7	17877.2	16908.4	15331.2	15022.2	14013.4
52.5°	11457.9	11478.8	12686.0	14234.6	16418.2	18468.4	18163.2	16530.8	16158.9	14942.1
55°	8925.2	8971.0	10454.7	12159.7	15144.3	18378.7	19019.5	17766.6	17396.6	15815.6
57.5°	6390.7	6592.8	7983.1	9670.9	12697.5	16957.9	19206.4	18941.3	18582.8	16769.1
60°	4142.2	4178.5	5608.8	7309.9	9669.0	14432.9	18826.9	19831.9	19551.6	17741.8
62.5°	2654.7	2679.5	3551.0	5112.9	6959.0	10677.9	17549.1	20219.1	20133.3	18384.5
65°	1951.0	1931.9	2385.8	3379.4	4687.7	6585.2	15068.0	20032.2	20201.9	18786.9
67.5°	1628.7	1602.0	1825.1	2340.0	3453.8	3739.8	11148.9	18817.4	19439.1	18741.1
70°	1483.7	1460.8	1596.2	1737.4	2694.7	2504.0	5620.2	16359.1	17316.5	18220.4
72.5°	1256.8	1216.7	1401.7	1542.8	2095.9	1920.5	2322.8	12565.9	13733.0	16551.7
75°	974.5	947.8	1106.1	1357.9	1575.3	1499.0	1468.5	7630.3	8904.3	12800.5
77.5°	772.4	736.1	881.1	1058.4	1417.0	1130.9	1069.9	3285.9	4548.4	8171.9
80°	581.7	549.2	669.4	837.2	1089.0	852.5	692.3	1340.7	1714.5	4140.3
82.5°	413.8	385.2	467.2	614.1	732.3	764.7	425.3	751.4	844.8	1596.2
85°	265.1	247.9	312.8	385.2	465.3	492.0	259.4	392.9	431.0	657.9
87.5°	144.9	118.2	167.8	179.3	215.5	196.4	124.0	143.0	154.5	238.4
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°
4050.7	0°	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7
4058.3	2.5°	4065.9	4071.7	4090.7	4096.5	4109.8	4127.0	4138.4	4149.9	4149.9	4161.3
4119.3	5°	4121.2	4134.6	4174.6	4195.6	4229.9	4264.3	4285.3	4310.0	4325.3	4332.9
4216.6	7.5°	4228.0	4249.0	4306.2	4342.5	4401.6	4449.3	4481.7	4516.0	4523.6	4544.6
4352.0	10°	4373.0	4397.8	4462.6	4531.3	4601.8	4661.0	4691.5	4716.3	4725.8	4729.6
4525.6	12.5°	4538.9	4575.1	4659.0	4743.0	4817.3	4868.8	4876.5	4870.7	4844.0	4821.2
4739.1	15°	4743.0	4775.4	4868.8	4960.4	5032.8	5042.4	4994.7	4964.2	4931.8	4926.0
4977.5	17.5°	4987.1	5004.2	5090.1	5179.7	5185.4	5153.0	5082.4	5053.8	5023.3	5002.3
5288.4	20°	5271.2	5265.5	5326.5	5364.7	5324.6	5225.5	5118.7	5071.0	5040.5	5015.7
5669.8	22.5°	5610.7	5566.8	5559.2	5549.7	5442.9	5235.0	5090.1	5029.0	4981.3	4947.0
6201.9	25°	6104.6	5936.8	5820.5	5755.6	5515.3	5183.5	4998.5	4863.1	4773.5	4714.4
6852.2	27.5°	6722.5	6440.3	6146.6	5988.3	5515.3	5078.6	4777.3	4558.0	4411.1	4350.1
7481.6	30°	7311.8	7016.2	6583.3	6268.6	5502.0	4907.0	4420.7	4115.5	3943.9	3882.9
8019.4	32.5°	7815.3	7493.0	7046.7	6575.7	5469.6	4628.5	3978.2	3640.7	3474.7	3402.3
8551.4	35°	8282.5	7939.3	7512.1	6913.2	5383.7	4220.4	3491.9	3234.4	3049.5	2933.1
9093.1	37.5°	8761.2	8353.1	7952.6	7218.4	5229.3	3743.6	3118.1	2898.8	2681.4	2525.0
9669.0	40°	9281.9	8793.6	8423.7	7399.6	4975.6	3289.7	2828.2	2628.0	2397.2	2231.3
10332.7	42.5°	9890.2	9321.9	8948.1	7493.0	4628.5	2967.4	2639.4	2443.0	2225.6	2090.2
11044.0	45°	10525.3	9903.6	9426.8	7491.1	4241.4	2816.8	2578.4	2383.9	2143.6	2002.5
11774.4	47.5°	11190.9	10511.9	9840.6	7369.0	3905.7	2837.8	2544.1	2256.1	1991.0	1853.7
12512.5	50°	11858.4	11177.5	10241.1	7140.2	3762.7	2792.0	2416.3	2076.8	1764.1	1640.1
13204.8	52.5°	12520.1	11885.1	10586.3	6814.1	3617.8	2622.3	2252.3	1844.2	1670.6	1584.8
13919.9	55°	13185.7	12585.0	10962.0	6339.2	3255.4	2423.9	1977.7	1756.4	1596.2	1518.1
14619.8	57.5°	13853.2	13393.6	11318.6	5864.3	2799.6	2179.8	1827.0	1649.6	1521.9	1455.1
15205.3	60°	14547.4	14318.5	11686.7	5427.6	2349.5	1867.1	1716.4	1563.8	1434.1	1359.8
15767.9	62.5°	15262.5	15336.9	11974.7	4865.0	1935.7	1676.3	1617.2	1460.8	1335.0	1264.4
16233.2	65°	15983.4	16319.1	12163.5	4085.0	1569.5	1495.2	1510.4	1348.3	1220.5	1159.5
16574.6	67.5°	16526.9	17026.6	12110.1	3091.4	1287.3	1323.5	1376.9	1230.1	1109.9	1062.3
16519.3	70°	16588.0	16942.7	11583.7	2116.9	1077.5	1155.7	1228.2	1113.7	989.8	955.5
15741.2	72.5°	15775.5	15798.4	10117.2	1382.6	911.6	1014.6	1071.8	995.5	875.4	841.0
13771.2	75°	13645.3	13065.5	7428.2	911.6	762.8	871.5	924.9	871.5	755.2	762.8
10304.1	77.5°	10338.4	9253.3	4510.3	648.4	637.0	732.3	804.8	766.7	667.5	749.5
5181.6	80°	5326.5	5006.1	2012.0	484.4	503.5	585.5	661.8	612.2	528.3	503.5
1157.6	82.5°	1220.5	1418.9	793.4	347.1	364.3	421.5	505.4	459.6	379.5	320.4
482.5	85°	427.2	467.2	350.9	217.4	213.6	263.2	343.3	307.0	257.5	206.0
204.1	87.5°	135.4	177.4	131.6	87.7	91.5	118.2	158.3	144.9	120.1	78.2
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>
4050.7
4161.3
4336.7
4537.0
4720.1
4821.2
4926.0
5004.2
5017.6
4958.5
4737.2
4380.6
3919.1
3438.5
2971.3
2567.0
2263.7
2116.9
2025.3
1872.8
1647.7
1584.8
1510.4
1443.7
1354.0
1262.5
1157.6
1064.2
957.4
839.1
736.1
659.9
459.6
316.6
217.4
82.0
0.0

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