

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: P953836

Luminaire Tested: **GALN-SB7B-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41111 lumens
Efficiency: N/A
Efficacy: 160.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

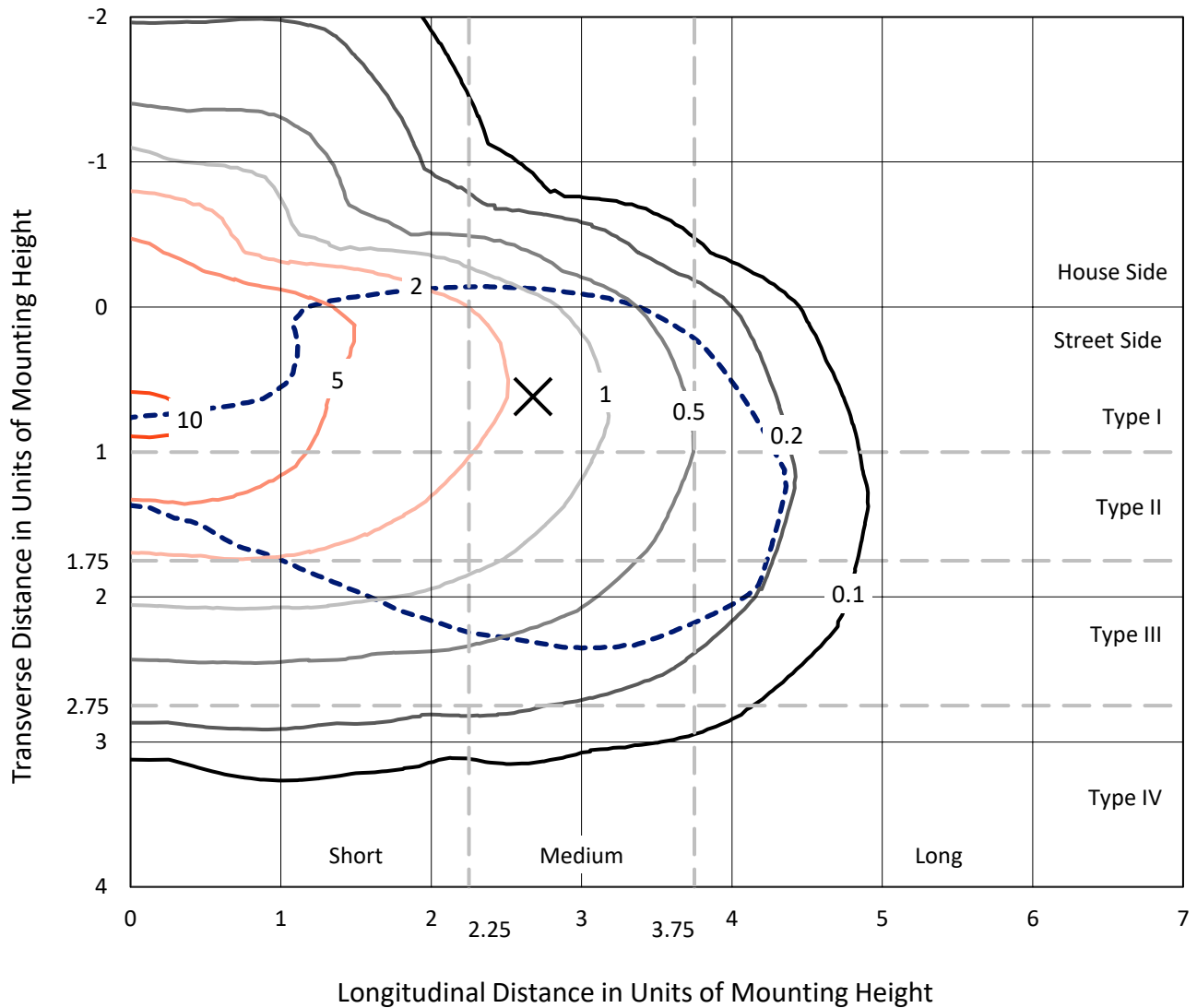
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

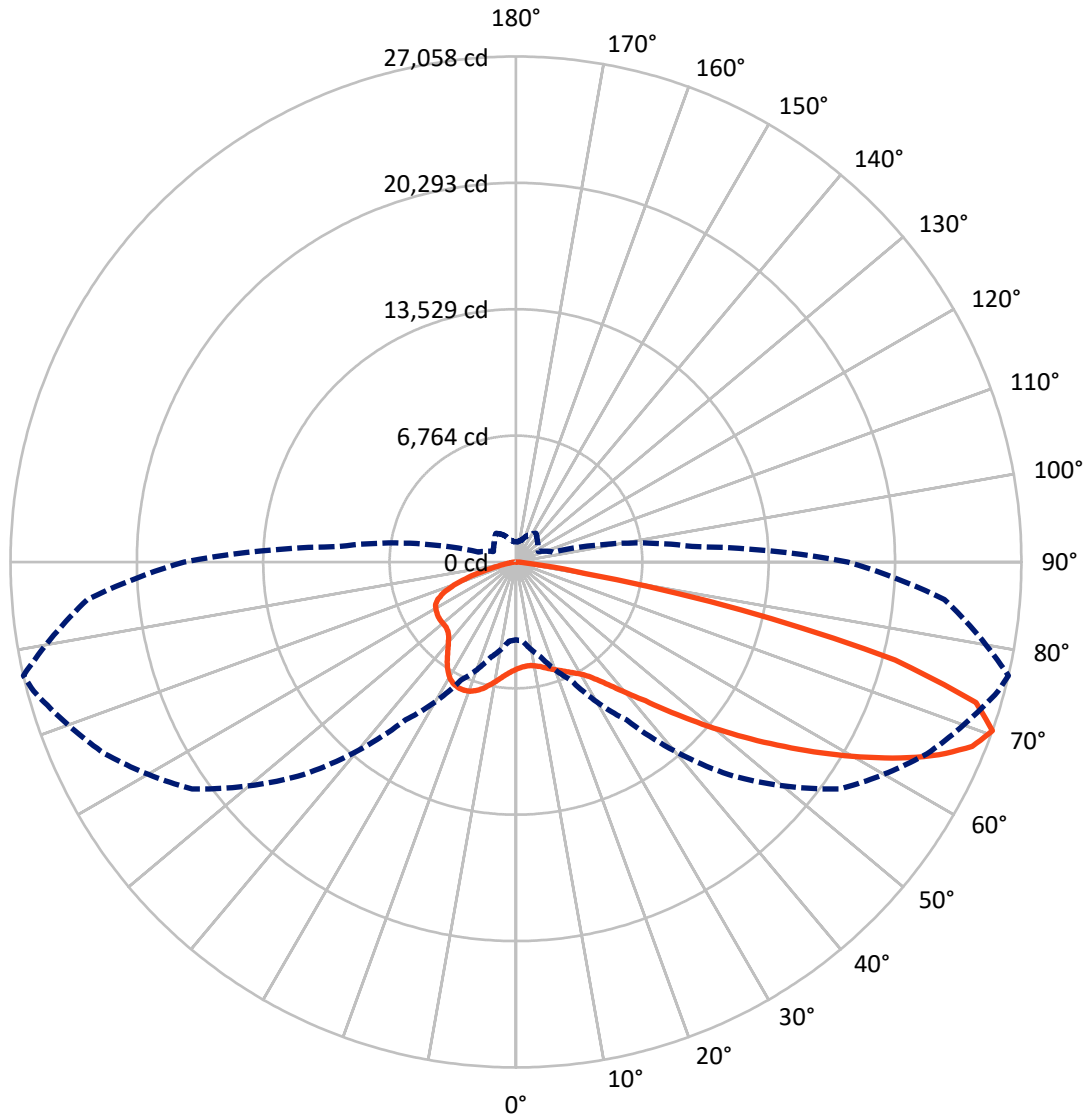
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9002.7	0.0	9002.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	32108.3	0.0	32108.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	41111.0	0.0	41111.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.0	1.3
10°-20°	1578.7	3.8
20°-30°	2699.8	6.6
30°-40°	4341.5	10.6
40°-50°	6778.3	16.5
50°-60°	9054.2	22.0
60°-70°	9650.3	23.5
70°-80°	5940.7	14.5
80°-90°	520.6	1.3
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°	41111.0	100.0
0°-180°	41111.0	100.0



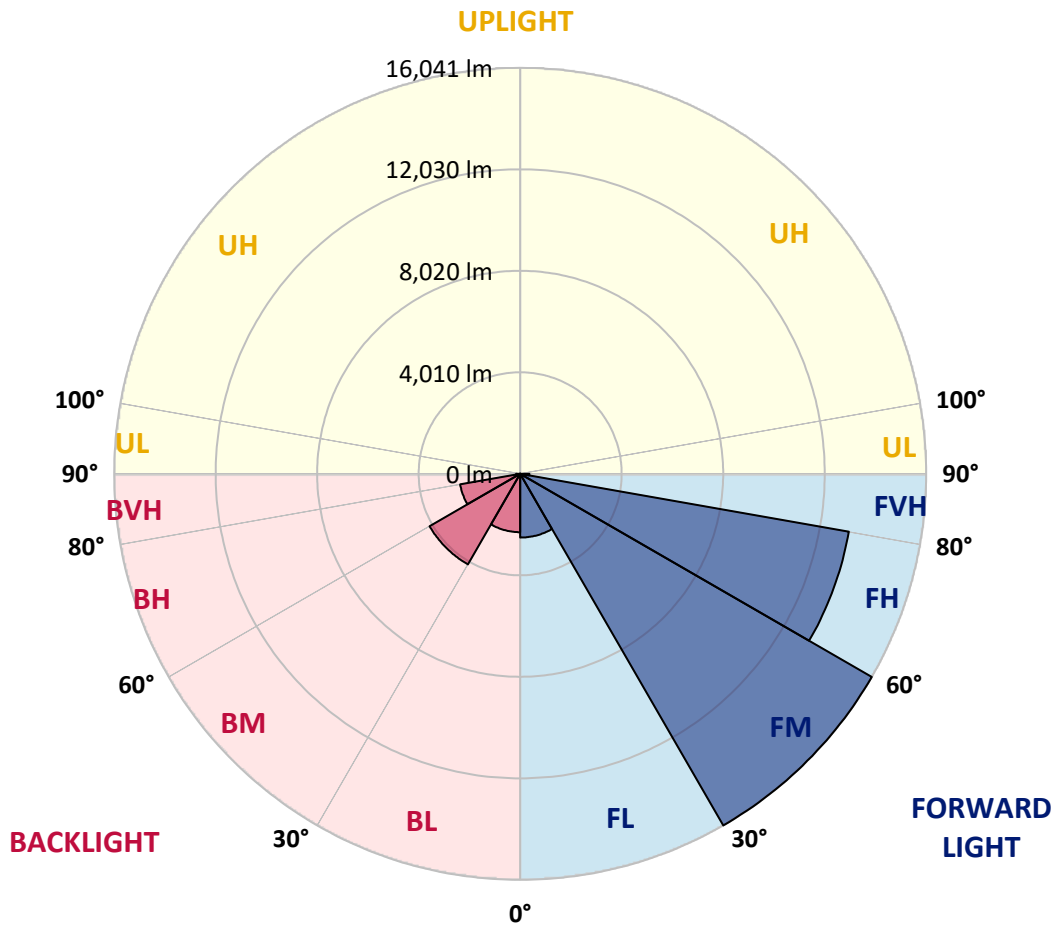
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2518.7	6.1			
FM (30°-60°)	16040.6	39.0			
FH (60°-80°)	13185.0	32.1			G5
FVH (80°-90°)	364.0	0.9			G3/500
BL (0°-30°)	2306.8	5.6	B3/2500		
BM (30°-60°)	4133.3	10.1	B3/5000		
BH (60°-80°)	2406.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	156.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4
2.5°	5286.9	5284.8	5312.2	5320.6	5371.1	5406.9	5474.3	5545.9	5638.5	5649.0
5°	4981.6	4981.6	5013.2	5046.9	5112.1	5183.7	5286.9	5411.1	5571.1	5596.4
7.5°	4722.6	4739.5	4766.8	4832.1	4907.9	5011.1	5169.0	5345.8	5556.4	5596.4
10°	4514.2	4533.1	4566.8	4619.4	4733.1	4876.3	5082.7	5310.1	5592.2	5655.4
12.5°	4448.9	4467.9	4486.8	4526.8	4632.1	4800.5	5046.9	5326.9	5678.5	5741.7
15°	4600.5	4623.7	4608.9	4598.4	4653.1	4806.8	5063.7	5388.0	5785.9	5876.4
17.5°	4950.0	4958.4	4924.7	4825.8	4817.4	4899.5	5143.7	5472.2	5920.6	6019.6
20°	5514.3	5499.5	5430.1	5234.3	5122.7	5105.8	5280.6	5598.5	6059.6	6164.9
22.5°	6280.7	6263.8	6124.9	5815.4	5566.9	5402.7	5478.5	5762.7	6215.4	6333.3
25°	7236.6	7213.4	7009.2	6588.1	6202.8	5796.4	5748.0	5979.6	6407.0	6516.5
27.5°	8352.5	8333.5	8112.5	7556.6	7000.8	6335.4	6082.8	6234.4	6607.0	6731.3
30°	9552.6	9607.4	9215.7	8617.8	7914.5	7038.7	6533.3	6548.1	6866.0	6977.6
32.5°	10963.3	11058.0	10586.4	9828.4	8868.3	7803.0	7101.8	6986.0	7242.9	7335.5
35°	12361.3	12468.7	12077.1	11239.1	10133.7	8704.1	7695.6	7489.2	7744.0	7845.1
37.5°	13569.9	13713.1	13510.9	12782.4	11487.6	9790.5	8470.4	8080.9	8360.9	8487.2
40°	14523.7	14742.7	14727.9	14273.1	13083.5	11108.6	9453.7	8811.5	9127.3	9264.2
42.5°	15298.5	15488.0	15652.2	15629.1	14749.0	12605.6	10609.6	9761.1	10001.1	10159.0
45°	15833.3	16035.4	16389.1	16770.2	16351.2	14207.9	11933.9	10887.5	11106.5	11344.4
47.5°	16311.2	16540.7	16999.7	17604.0	17711.4	15816.5	13384.6	12199.2	12399.2	12645.6
50°	16353.4	16551.3	17262.9	18119.9	18677.8	17361.9	14942.7	13671.0	13858.3	14121.5
52.5°	15336.4	15648.0	16890.3	18105.1	19122.1	18654.7	16490.2	15201.7	15412.2	15728.0
55°	11904.5	12361.3	15797.5	17540.9	18964.2	19490.5	17962.0	16829.2	17098.7	17429.3
57.5°	10253.7	10453.8	12540.3	16513.4	18244.1	19707.4	19204.2	18473.6	18907.3	19269.5
60°	9215.7	9382.1	10615.9	14915.3	17296.6	19364.2	20164.3	20006.4	20755.9	21187.6
62.5°	8104.0	8261.9	9384.2	12454.0	16083.9	18793.6	20770.7	21421.3	22650.9	23122.5
65°	7000.8	7135.5	8211.4	10464.3	14542.6	18223.0	21084.4	22644.6	24404.8	24893.2
67.5°	5771.2	5882.7	6899.7	8828.3	12668.7	17441.9	21240.2	23606.8	25931.2	26350.2
70°	4164.7	4251.0	5301.6	6981.8	10316.9	16098.6	21177.0	24289.0	26722.9	27057.7
72.5°	1968.6	2046.5	3280.4	4533.1	7287.1	13483.6	19899.0	23747.8	25918.6	25752.3
75°	1050.6	1118.0	1884.4	2486.6	3848.8	9243.1	16283.9	20457.0	21764.5	20956.0
77.5°	711.7	764.3	1166.4	1492.8	1758.1	4387.8	10466.4	14163.6	13626.7	12291.9
80°	564.3	619.0	955.9	1010.6	850.6	1585.4	4324.7	6556.5	4710.0	3766.7
82.5°	433.7	494.8	804.3	732.7	463.2	650.6	1259.1	2073.9	1206.4	918.0
85°	265.3	330.6	631.6	467.4	261.1	296.9	427.4	576.9	368.5	307.4
87.5°	134.8	189.5	320.0	170.5	117.9	69.5	113.7	113.7	96.9	84.2
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°
5735.4	0°	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4	5735.4
5705.9	2.5°	5756.4	5798.5	5870.1	5937.5	5990.1	6040.7	6091.2	6118.6	6127.0	6160.7
5737.5	5°	5823.8	5901.7	6040.7	6171.2	6253.3	6303.8	6339.6	6360.7	6364.9	6375.4
5823.8	7.5°	5948.0	6072.2	6265.9	6396.5	6457.5	6453.3	6438.6	6386.0	6364.9	6346.0
5950.1	10°	6122.8	6287.0	6524.9	6615.5	6577.6	6476.5	6346.0	6192.3	6120.7	6051.2
6122.8	12.5°	6339.6	6548.1	6781.8	6777.6	6590.2	6331.2	6028.0	5792.2	5642.7	5535.3
6335.4	15°	6602.8	6842.8	7021.8	6878.6	6468.1	6002.8	5558.5	5251.1	5116.3	4998.4
6550.2	17.5°	6874.4	7131.3	7213.4	6847.1	6160.7	5516.4	5013.2	4771.0	4638.4	4575.2
6781.8	20°	7139.7	7394.5	7327.1	6666.0	5693.2	4964.7	4516.3	4383.6	4356.3	4371.0
7007.1	22.5°	7419.8	7647.1	7350.3	6316.5	5097.4	4400.5	4154.1	4158.3	4219.4	4263.6
7242.9	25°	7706.1	7859.8	7289.2	5811.2	4457.3	3985.7	3924.6	3992.0	4112.0	4198.4
7508.2	27.5°	7981.9	8049.3	7156.6	5185.8	3907.8	3688.8	3699.3	3838.3	4019.4	4139.4
7830.3	30°	8293.5	8217.7	6901.8	4482.6	3526.7	3434.1	3522.5	3684.6	3865.7	3973.1
8236.7	32.5°	8645.1	8363.0	6497.5	3832.0	3257.2	3229.8	3375.1	3480.4	3560.4	3592.0
8775.7	35°	9083.1	8567.2	5979.6	3375.1	3015.1	3080.3	3219.3	3166.7	3135.1	3118.2
9500.0	37.5°	9651.6	8843.1	5373.2	3078.2	2819.3	2973.0	3029.8	2865.6	2741.4	2680.3
10378.0	40°	10335.9	9247.3	4790.0	2848.7	2695.0	2880.3	2781.4	2583.4	2425.5	2339.2
11365.4	42.5°	11095.9	9670.5	4299.4	2676.1	2625.5	2804.5	2598.2	2362.4	2107.6	2080.2
12542.4	45°	11893.9	10106.4	3964.6	2543.4	2591.9	2739.2	2492.9	2111.8	1930.7	2042.3
13723.6	47.5°	12691.9	10506.4	3762.5	2444.5	2575.0	2665.6	2400.3	1972.8	1844.4	2006.5
14989.0	50°	13580.4	10864.3	3672.0	2372.9	2556.1	2636.1	2261.3	1937.1	1753.9	1861.3
16298.6	52.5°	14462.6	11142.3	3604.6	2301.3	2528.7	2612.9	2193.9	1894.9	1644.4	1650.7
17616.6	55°	15342.7	11323.3	3530.9	2206.6	2467.6	2562.4	2187.6	1848.6	1562.3	1532.8
19010.5	57.5°	16281.8	11426.5	3440.4	2101.3	2362.4	2433.9	2181.3	1812.8	1537.0	1488.6
20435.9	60°	17237.7	11578.1	3322.5	1972.8	2221.3	2280.2	2166.6	1800.2	1522.3	1440.2
21779.2	62.5°	18094.6	11630.7	3181.4	1850.7	2040.2	2128.7	2135.0	1789.7	1482.3	1341.2
22895.1	65°	18656.8	11403.3	2935.1	1711.8	1844.4	1972.8	2073.9	1753.9	1410.7	1269.6
23446.8	67.5°	18633.6	10754.9	2549.8	1532.8	1654.9	1800.2	1985.5	1692.8	1324.4	1181.2
23029.9	70°	17766.1	9474.7	2061.3	1324.4	1446.5	1614.9	1871.8	1602.3	1221.2	1084.3
20478.0	72.5°	15237.4	7415.5	1497.0	1080.1	1204.3	1423.3	1724.4	1492.8	1115.9	998.0
15134.3	75°	10885.4	4693.1	1014.8	829.6	936.9	1206.4	1541.2	1364.4	1019.1	1002.2
7579.8	77.5°	5560.6	2242.3	671.7	606.4	652.7	951.7	1294.9	1219.1	1033.8	827.5
2156.0	80°	1808.6	827.5	423.2	412.7	433.7	633.8	1002.2	1000.1	783.2	562.2
522.2	82.5°	576.9	355.8	275.8	265.3	254.8	397.9	699.0	791.7	528.5	355.8
187.4	85°	229.5	212.7	162.1	149.5	107.4	187.4	366.4	526.4	393.7	256.9
48.4	87.5°	84.2	84.2	44.2	31.6	23.2	63.2	99.0	157.9	225.3	132.6
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>
5735.4
6179.6
6392.3
6350.2
6030.1
5510.1
4985.8
4594.2
4364.7
4274.1
4221.5
4168.9
3998.3
3608.8
3135.1
2695.0
2345.5
2107.6
2101.3
2082.3
1941.3
1694.9
1553.9
1494.9
1446.5
1341.2
1269.6
1187.5
1097.0
991.7
945.4
736.9
496.9
353.7
263.2
130.5
0.0

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