

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: P943672

Luminaire Tested: **GALN-SB8B-735-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943672  
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-SB8B-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

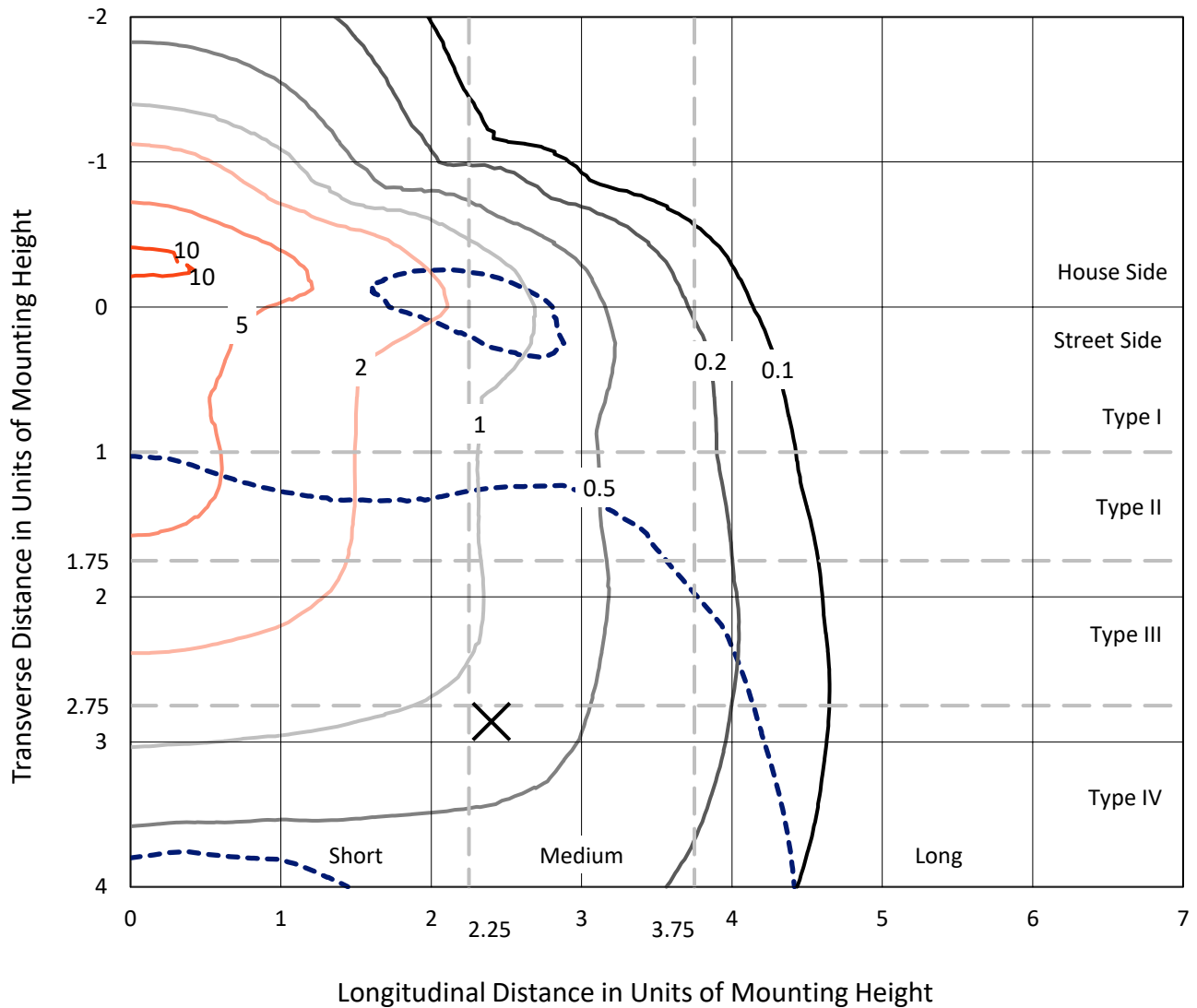
Lumens per Lamp: N/A  
Luminaire Lumens: 45136 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

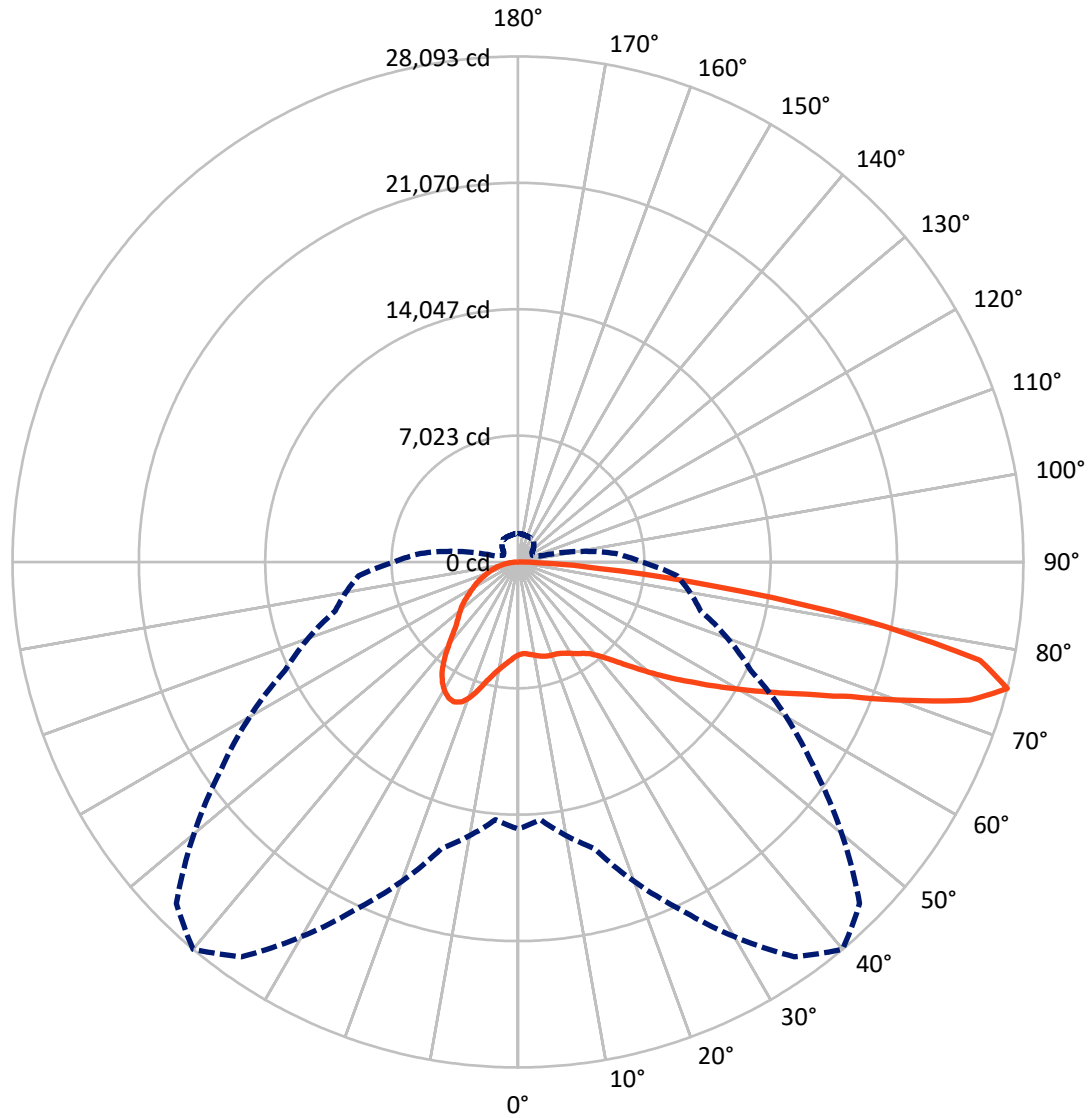
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13984.6	0.0	13984.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	31151.4	0.0	31151.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	45136.0	0.0	45136.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.2	1.1
10°-20°	1729.8	3.8
20°-30°	3158.4	7.0
30°-40°	4479.5	9.9
40°-50°	6048.7	13.4
50°-60°	8137.1	18.0
60°-70°	10327.8	22.9
70°-80°	9373.2	20.8
80°-90°	1366.3	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°	45136.0	100.0
0°-180°	45136.0	100.0

**Coefficient of Utilization**



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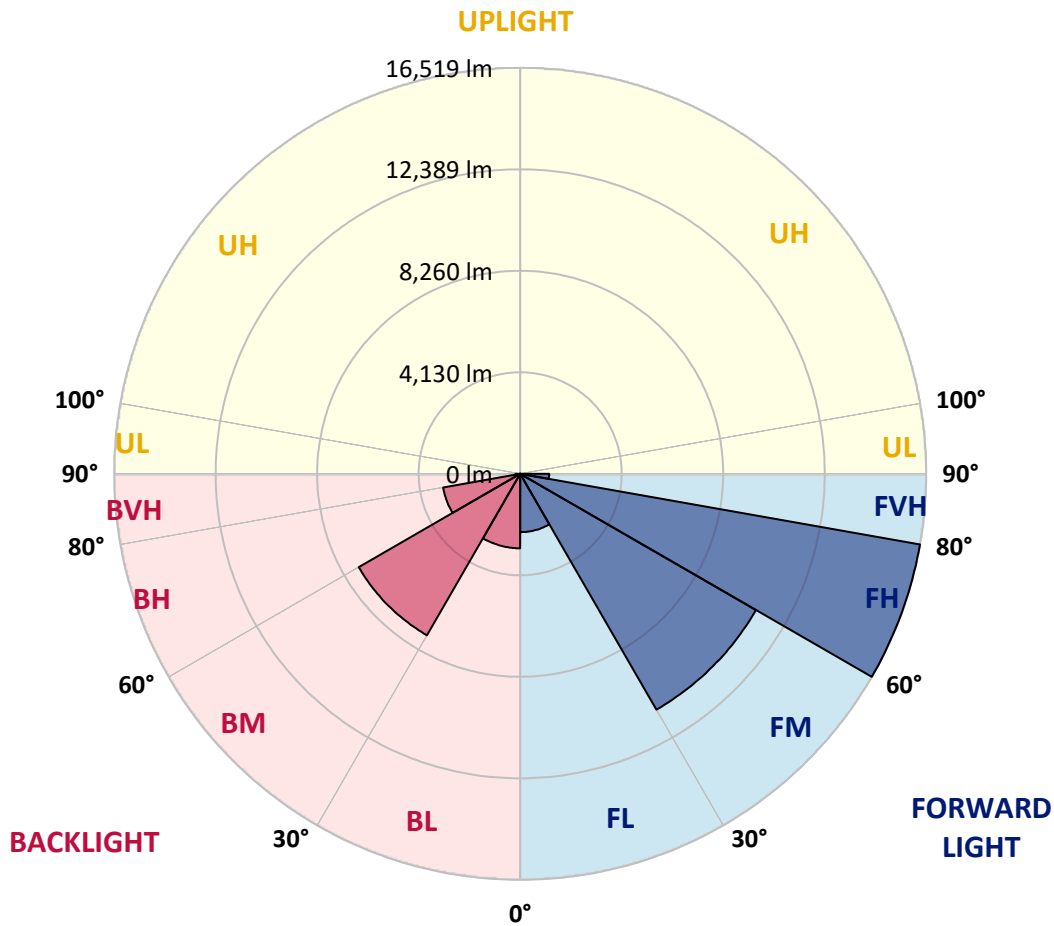
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2374.2	5.3			
FM (30°-60°)	11079.9	24.5			
FH (60°-80°)	16519.1	36.6			G5
FVH (80°-90°)	1178.2	2.6			G5
BL (0°-30°)	3029.2	6.7	B4/5000		
BM (30°-60°)	7585.4	16.8	B4/8500		
BH (60°-80°)	3181.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	188.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
2.5°	5082.4	5111.1	5103.9	5094.3	5094.3	5096.7	5094.3	5111.1	5127.8	5144.6
5°	5135.0	5163.8	5149.4	5137.4	5127.8	5125.5	5118.3	5115.9	5125.5	5147.0
7.5°	5238.0	5266.7	5245.2	5223.6	5204.5	5194.9	5185.3	5170.9	5163.8	5175.7
10°	5352.9	5381.6	5355.3	5317.0	5285.8	5273.9	5264.3	5249.9	5240.4	5247.5
12.5°	5467.8	5496.5	5460.6	5407.9	5367.2	5360.1	5348.1	5343.3	5340.9	5338.5
15°	5575.5	5599.5	5554.0	5491.7	5448.6	5436.7	5424.7	5431.9	5443.8	5458.2
17.5°	5659.3	5683.2	5616.2	5534.8	5494.1	5489.3	5482.2	5506.1	5539.6	5575.5
20°	5735.9	5759.8	5673.7	5563.5	5515.7	5515.7	5518.1	5568.3	5616.2	5668.9
22.5°	5843.6	5862.8	5757.5	5606.6	5537.2	5542.0	5561.2	5611.4	5671.3	5743.1
25°	6004.0	6018.4	5889.1	5688.0	5609.0	5623.4	5640.2	5664.1	5721.5	5805.3
27.5°	6262.6	6274.5	6104.6	5831.7	5712.0	5735.9	5759.8	5743.1	5769.4	5841.2
30°	6626.5	6633.6	6418.2	6056.7	5886.7	5898.7	5903.5	5834.1	5783.8	5841.2
32.5°	7057.4	7055.0	6798.8	6329.6	6085.4	6073.5	6032.8	5896.3	5779.0	5829.3
35°	7725.3	7699.0	7368.6	6712.6	6310.5	6236.2	6140.5	5965.7	5802.9	5817.3
37.5°	8831.3	8749.9	8292.7	7339.9	6645.6	6456.5	6315.2	6078.2	5855.6	5812.5
40°	10078.5	9975.6	9472.9	8199.3	7148.3	6844.3	6616.9	6238.6	5941.8	5834.1
42.5°	11558.0	11412.0	10870.9	9211.9	7785.1	7344.6	7002.3	6442.1	6068.7	5903.5
45°	13375.0	13181.1	12415.0	10353.8	8587.1	8000.6	7543.3	6750.9	6262.6	6037.5
47.5°	15211.2	15259.1	14169.8	11660.9	9549.5	8809.7	8220.8	7215.4	6545.1	6253.0
50°	17162.2	17195.8	15915.0	13109.3	10641.1	9724.2	8982.1	7734.9	6937.7	6559.4
52.5°	18684.8	18689.6	17499.8	14624.7	11778.2	10729.7	9803.2	8328.6	7392.5	6966.4
55°	19637.6	19625.6	18610.6	16058.6	13085.3	11785.4	10712.9	9003.7	7947.9	7445.2
57.5°	20329.4	20293.5	19376.7	17291.5	14478.6	13032.7	11742.3	9769.7	8603.9	8015.0
60°	20592.8	20571.2	19896.1	18356.8	15943.7	14411.6	12929.7	10626.8	9348.4	8687.7
62.5°	20693.3	20734.0	20406.1	19388.6	17511.8	15938.9	14234.4	11651.4	10186.3	9448.9
65°	21047.6	21121.8	21054.8	20738.8	19283.3	17727.2	15965.3	12869.9	11100.8	10265.3
67.5°	21749.1	21823.3	21852.0	22354.7	21447.4	19956.0	18124.6	14387.7	12170.9	11112.7
70°	21732.3	21710.8	22218.3	23640.3	24157.4	23041.8	21035.7	16254.9	13446.8	11816.5
72.5°	19781.2	19608.9	20808.2	23625.9	26412.5	26264.1	24590.7	18663.3	14548.0	11902.7
75°	14840.1	14380.5	16499.1	21291.8	26788.3	28093.0	26850.6	20157.1	14287.1	10516.6
77.5°	6346.4	5884.3	8381.2	15761.8	23975.4	26261.7	24777.4	17586.0	11404.8	6954.4
80°	1661.4	1659.0	2532.8	7145.9	16305.2	19393.4	17013.8	11356.9	6516.3	2484.9
82.5°	687.1	670.3	931.2	2779.4	7967.1	10882.9	8881.6	5065.6	2353.3	672.7
85°	256.2	253.8	452.5	960.0	2810.5	4488.7	3248.6	1295.1	586.5	328.0
87.5°	71.8	69.4	98.2	332.8	684.7	1039.0	555.4	213.1	165.2	129.3
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°
5161.4	0°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
5170.9	2.5°	5178.1	5190.1	5211.6	5228.4	5249.9	5273.9	5307.4	5328.9	5350.5	5364.8
5182.9	5°	5199.7	5226.0	5281.1	5336.1	5400.8	5460.6	5530.0	5580.3	5621.0	5633.0
5226.0	7.5°	5247.5	5290.6	5384.0	5477.4	5580.3	5678.5	5779.0	5865.2	5934.6	5960.9
5302.6	10°	5331.3	5388.8	5520.5	5652.1	5788.6	5939.4	6068.7	6193.2	6291.3	6332.0
5393.6	12.5°	5436.7	5508.5	5680.8	5862.8	6051.9	6260.2	6427.8	6581.0	6703.1	6758.1
5520.5	15°	5573.1	5666.5	5886.7	6130.9	6408.6	6698.3	6911.3	7081.3	7217.8	7284.8
5652.1	17.5°	5721.5	5846.0	6123.7	6492.4	6889.8	7270.4	7519.4	7643.9	7785.1	7849.8
5774.2	20°	5865.2	6018.4	6415.8	6952.0	7481.1	7885.7	8086.8	8120.3	8129.9	8137.0
5889.1	22.5°	6013.6	6219.5	6782.1	7531.4	8098.7	8378.8	8407.6	8263.9	8062.8	7969.5
6001.6	25°	6176.4	6449.3	7260.9	8170.6	8630.2	8663.7	8443.5	8094.0	7713.3	7538.6
6092.6	27.5°	6334.4	6715.0	7835.4	8781.0	9013.2	8718.8	8244.8	7749.2	7289.6	7105.3
6157.2	30°	6492.4	7019.1	8469.8	9314.9	9188.0	8582.3	7931.2	7378.2	6916.1	6722.2
6214.7	32.5°	6652.8	7373.4	9200.0	9700.3	9156.9	8292.7	7541.0	6961.6	6554.6	6351.2
6265.0	35°	6834.7	7809.1	9891.8	9911.0	8948.6	7866.5	7026.3	6463.7	6109.4	5946.6
6324.8	37.5°	7071.7	8362.1	10502.3	9963.6	8584.7	7241.7	6387.1	5874.8	5582.7	5508.5
6413.4	40°	7366.2	9027.6	10969.1	9879.8	8046.1	6482.8	5688.0	5278.7	5113.5	5130.2
6533.1	42.5°	7749.2	9772.1	11297.1	9664.4	7296.8	5700.0	5075.2	4893.2	4972.2	5039.3
6712.6	45°	8247.2	10545.4	11500.5	9298.1	6449.3	5036.9	4713.7	4756.8	4816.6	4823.8
7002.3	47.5°	8884.0	11328.2	11634.6	8745.1	5585.1	4570.1	4483.9	4493.4	4481.5	4431.2
7435.6	50°	9678.8	12089.5	11754.3	8012.6	4850.1	4278.0	4163.1	4129.6	3964.4	3801.6
8012.6	52.5°	10583.7	12788.5	11804.6	7102.9	4278.0	4033.8	3847.1	3636.4	3327.6	3277.3
8737.9	55°	11589.1	13434.9	11675.3	5984.9	3796.8	3720.2	3437.7	3184.0	3150.4	3107.4
9693.1	57.5°	12790.9	14131.5	11412.0	4737.6	3303.7	3353.9	3078.6	3107.4	3047.5	2980.5
10921.2	60°	14105.2	14852.1	10949.9	3600.5	2793.7	2896.7	2985.3	2982.9	2966.1	2911.0
12216.3	62.5°	15287.8	15326.1	10040.2	2757.8	2346.1	2542.4	2784.2	2781.8	2767.4	2736.3
13568.9	65°	15991.6	15254.3	8522.5	2171.3	1977.4	2250.3	2511.3	2530.4	2532.8	2530.4
14586.4	67.5°	15867.1	14414.0	6439.7	1728.4	1673.4	1953.5	2240.7	2267.1	2286.2	2291.0
14715.6	70°	14459.5	12568.3	4199.0	1378.9	1402.9	1692.5	1984.6	2010.9	2027.7	2046.8
12769.3	72.5°	11270.7	9240.7	2403.5	1115.6	1165.9	1467.5	1730.8	1761.9	1771.5	1807.4
8886.4	75°	6868.2	5434.3	1297.5	878.6	957.6	1254.4	1479.5	1515.4	1532.1	1575.2
4364.2	77.5°	3265.4	2353.3	739.7	684.7	770.9	1024.6	1249.6	1290.3	1244.9	1268.8
1204.2	80°	1103.6	873.8	466.8	521.9	588.9	799.6	1000.7	1041.4	945.6	940.8
399.8	82.5°	385.4	354.3	296.9	347.1	380.6	572.2	756.5	809.2	703.8	701.4
179.5	85°	150.8	143.6	165.2	189.1	227.4	351.9	497.9	524.3	433.3	349.5
52.7	87.5°	31.1	33.5	40.7	43.1	69.4	122.1	179.5	220.2	174.8	148.4
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°  
5161.4  
5355.3  
5637.8  
5963.3  
6334.4  
6758.1  
7280.0  
7847.4  
8156.2  
7995.8  
7564.9  
7126.8  
6743.8  
6377.5  
5982.5  
5561.2  
5187.7  
5101.5  
4871.7  
4469.5  
3823.1  
3294.1  
3114.5  
2968.5  
2891.9  
2724.3  
2530.4  
2295.8  
2056.4  
1821.8  
*1580.0*  
1249.6  
931.2  
667.9  
344.7  
136.5  
0.0

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