

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: P943505

Luminaire Tested: **GALN-SB8A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35941 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

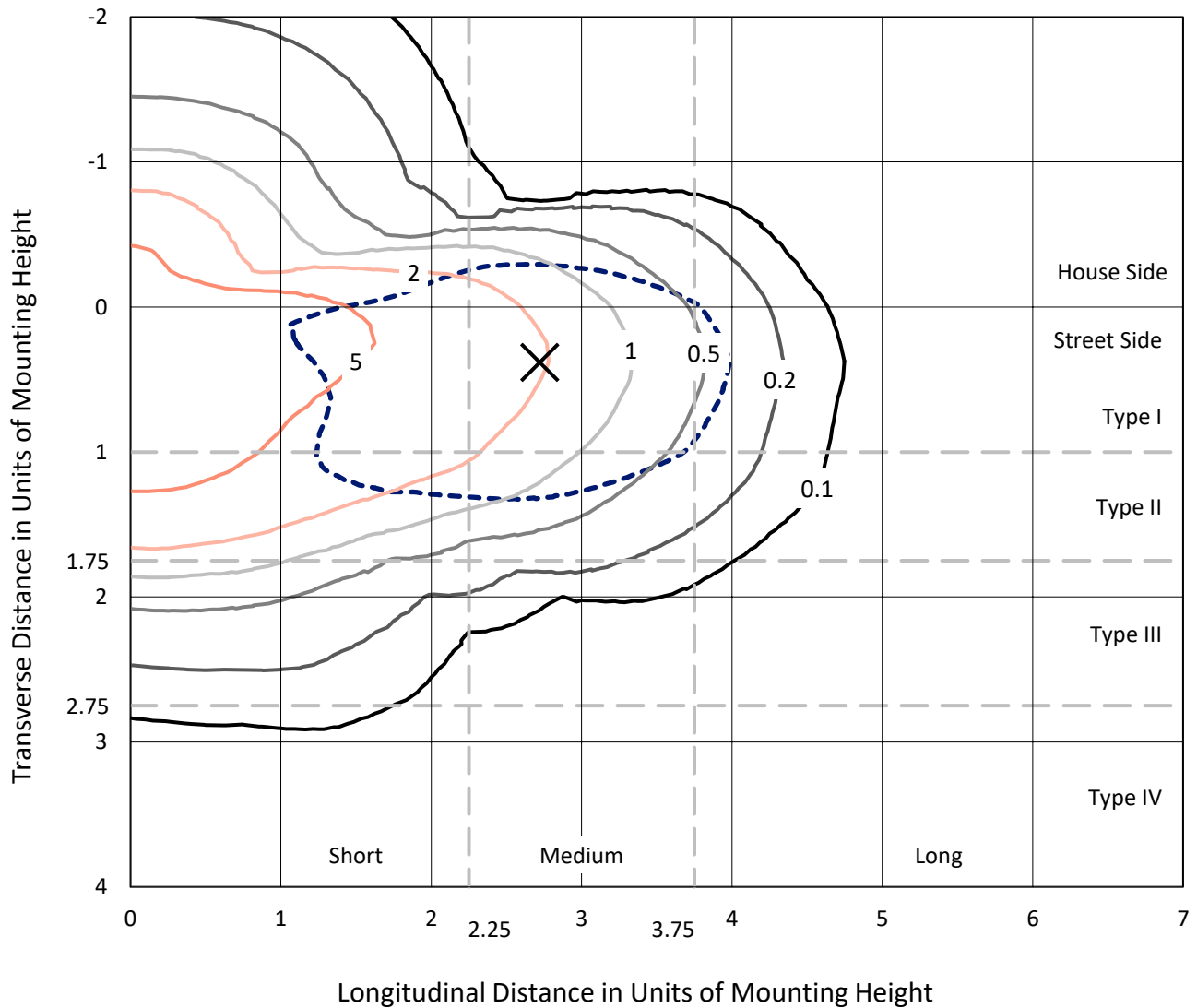
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

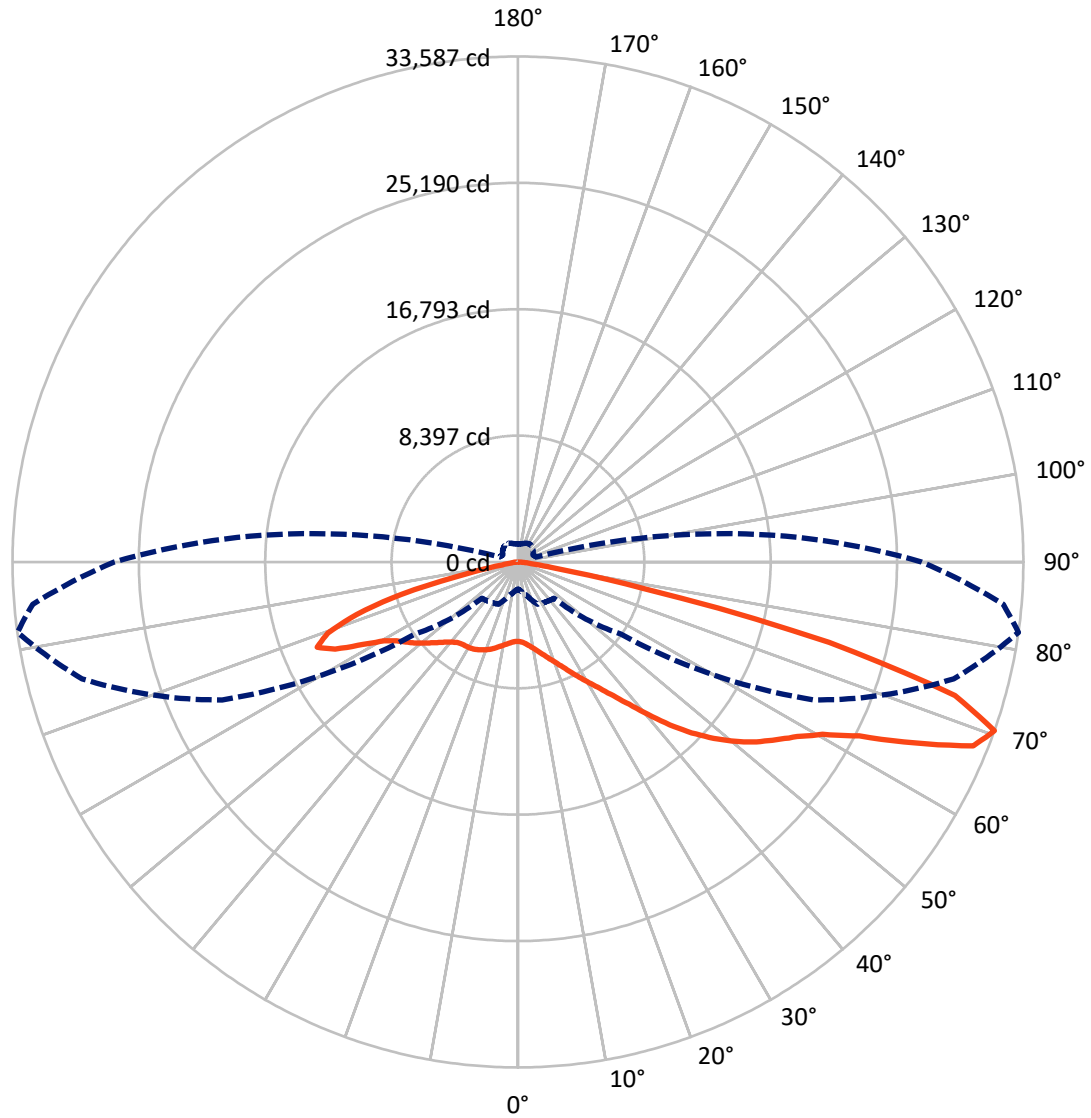
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8860.3	0.0	8860.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27080.7	0.0	27080.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	35941.0	0.0	35941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.5	1.4
10°-20°	1429.4	4.0
20°-30°	2391.3	6.7
30°-40°	3735.8	10.4
40°-50°	5949.7	16.6
50°-60°	8279.7	23.0
60°-70°	8660.9	24.1
70°-80°	4526.7	12.6
80°-90°	470.0	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°	35941.0	100.0
0°-180°	35941.0	100.0

Coefficient of Utilization



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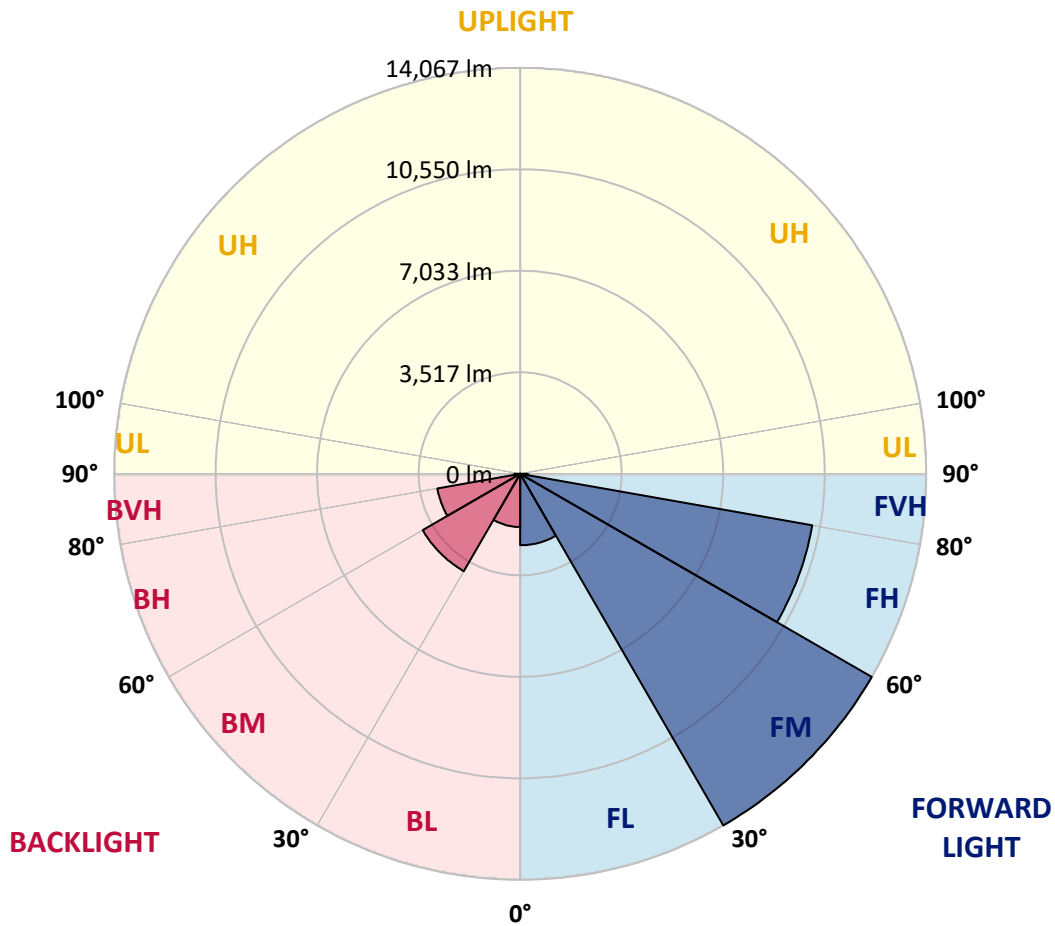
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2474.9	6.9			
FM (30°-60°)	14066.9	39.1			
FH (60°-80°)	10275.6	28.6			G4/12000
FVH (80°-90°)	263.1	0.7			G3/500
BL (0°-30°)	1843.3	5.1	B3/2500		
BM (30°-60°)	3898.2	10.8	B3/5000		
BH (60°-80°)	2912.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	206.9	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4
2.5°	5395.3	5425.8	5416.2	5406.7	5406.7	5393.4	5391.5	5372.4	5357.1	5332.3
5°	5463.9	5496.3	5492.5	5500.2	5525.0	5530.7	5536.4	5525.0	5494.4	5463.9
7.5°	5402.9	5439.1	5450.6	5496.3	5572.6	5641.3	5692.8	5713.8	5685.2	5641.3
10°	5196.9	5237.0	5277.0	5385.7	5521.1	5683.2	5820.6	5902.6	5896.8	5854.9
12.5°	4779.3	4821.2	4907.0	5118.7	5366.7	5652.7	5908.3	6079.9	6139.1	6108.5
15°	4445.5	4481.8	4546.6	4764.0	5086.3	5521.1	5940.7	6274.5	6425.1	6408.0
17.5°	4436.0	4451.2	4491.3	4594.3	4842.2	5315.2	5906.4	6465.2	6753.1	6751.2
20°	4603.8	4609.5	4632.4	4653.4	4794.5	5158.8	5818.7	6623.5	7121.2	7121.2
22.5°	4836.5	4832.7	4855.6	4836.5	4905.1	5145.4	5763.3	6762.7	7531.3	7561.8
25°	5185.5	5166.4	5160.7	5116.8	5130.2	5269.4	5824.4	6921.0	8017.6	8080.5
27.5°	5650.8	5620.3	5599.3	5498.3	5463.9	5525.0	6011.3	7111.7	8559.2	8667.9
30°	6257.3	6202.0	6171.5	5996.0	5872.1	5881.6	6293.5	7365.3	9125.6	9301.1
32.5°	7085.0	6999.2	6917.2	6629.2	6402.2	6327.9	6657.8	7716.2	9739.7	10020.1
35°	8011.9	7943.2	7855.5	7411.1	7062.1	6890.5	7149.8	8206.4	10458.7	10903.1
37.5°	8904.4	8845.3	8887.2	8288.4	7838.3	7588.5	7794.4	8864.3	11345.5	12001.6
40°	9827.4	9781.7	9787.4	9215.3	8690.8	8410.4	8576.4	9690.1	12362.0	13308.0
42.5°	10830.6	10796.3	10681.8	10174.5	9585.2	9324.0	9476.5	10643.7	13452.9	14795.5
45°	11953.9	11932.9	11826.1	11244.4	10569.3	10275.6	10481.6	11696.4	14549.5	16195.3
47.5°	12924.6	12941.8	12928.4	12438.3	11738.4	11307.4	11553.4	12794.9	15569.8	17511.3
50°	13391.9	13481.5	13613.1	13460.5	13025.7	12587.1	12634.7	13855.3	16542.4	18745.2
52.5°	13147.8	13317.5	13676.0	13920.1	14088.0	13996.4	13868.6	14908.0	17457.9	19858.9
55°	12238.1	12476.4	13071.5	13660.8	14517.1	15182.7	15350.5	16075.2	18350.4	20839.2
57.5°	10580.8	10967.9	11501.9	12693.9	14135.6	15756.7	17078.3	17694.4	19296.3	21886.2
60°	7739.1	8257.9	8921.6	10695.2	12800.7	15449.7	18548.7	20181.2	20640.9	23242.2
62.5°	4952.8	5273.2	5883.5	7554.1	9974.3	13876.3	18998.8	23289.9	22919.9	25465.9
65°	3390.9	3596.8	4155.6	5093.9	6448.0	10329.0	17793.5	25620.4	26539.6	28990.3
67.5°	2464.0	2620.4	3097.2	3919.2	4201.4	6112.4	13807.6	25513.6	30058.3	32621.5
70°	1796.5	1907.1	2307.6	3097.2	3232.6	3400.4	8364.7	21687.9	29982.0	33586.5
72.5°	1331.2	1407.5	1676.4	2403.0	2616.6	2296.2	4140.4	15762.4	25763.4	30378.7
75°	963.1	1020.3	1218.7	1838.5	2094.0	1748.8	2065.4	9211.4	17970.9	21369.4
77.5°	736.2	780.0	909.7	1346.4	1676.4	1312.1	1281.6	4237.6	8521.1	8563.0
80°	591.2	619.8	690.4	947.8	1285.4	982.2	835.3	1710.7	2692.9	2279.0
82.5°	434.8	482.5	583.6	665.6	919.2	677.0	509.2	863.9	1024.1	881.1
85°	247.9	280.3	352.8	476.8	587.4	413.8	291.8	383.3	476.8	391.0
87.5°	87.7	114.4	124.0	186.9	255.6	171.6	112.5	110.6	156.4	116.3
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°
5269.4	0°	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4	5269.4
5326.6	2.5°	5307.5	5298.0	5259.9	5208.4	5155.0	5103.5	5086.3	5050.1	5025.3	5011.9
5450.6	5°	5414.3	5383.8	5294.2	5179.8	5059.6	4929.9	4838.4	4754.5	4693.4	4636.2
5620.3	7.5°	5566.9	5513.5	5359.0	5158.8	4945.2	4729.7	4569.5	4447.4	4365.4	4312.0
5818.7	10°	5744.3	5662.3	5425.8	5126.4	4796.4	4487.5	4298.7	4193.8	4142.3	4113.7
6045.6	12.5°	5948.3	5832.0	5494.4	5052.0	4569.5	4216.7	4087.0	4056.5	4058.4	4060.3
6331.7	15°	6200.1	6038.0	5549.7	4889.9	4273.9	4008.8	3985.9	4035.5	4087.0	4111.8
6655.9	17.5°	6484.2	6255.4	5559.3	4622.9	3984.0	3875.3	3947.8	4054.6	4132.8	4167.1
7018.2	20°	6789.4	6476.6	5490.6	4245.3	3745.6	3766.6	3896.3	4033.6	4119.4	4163.3
7432.1	22.5°	7138.4	6713.1	5326.6	3848.6	3551.1	3648.3	3800.9	3934.4	4024.0	4067.9
7918.4	25°	7537.0	6978.2	5069.2	3514.8	3383.2	3514.8	3667.4	3778.0	3850.5	3890.5
8461.9	27.5°	7979.4	7254.7	4725.9	3249.7	3236.4	3377.5	3503.4	3589.2	3627.4	3657.9
9039.8	30°	8423.8	7506.5	4310.1	3049.5	3108.6	3242.1	3331.8	3369.9	3381.3	3387.1
9684.4	32.5°	8904.4	7723.9	3873.4	2883.6	2986.6	3110.5	3163.9	3181.1	3127.7	3091.5
10466.3	35°	9486.1	7956.5	3446.2	2752.0	2866.4	2973.2	2990.4	2975.1	2912.2	2837.8
11446.6	37.5°	10205.1	8246.4	3104.8	2658.5	2753.9	2824.5	2803.5	2799.7	2805.4	2717.7
12625.2	40°	11086.1	8624.0	2855.0	2586.1	2662.4	2677.6	2618.5	2650.9	2679.5	2546.0
13918.2	42.5°	12064.5	9079.8	2696.7	2536.5	2586.1	2549.8	2458.3	2494.5	2490.7	2315.3
15217.0	45°	13061.9	9575.7	2641.4	2500.2	2515.5	2443.0	2342.0	2351.5	2271.4	2113.1
16462.3	47.5°	14053.6	10107.8	2675.7	2469.7	2427.8	2345.8	2267.6	2225.6	2107.4	1989.1
17656.2	50°	15026.3	10666.6	2801.6	2408.7	2307.6	2259.9	2202.7	2128.4	2002.5	1901.4
18785.2	52.5°	15928.3	11229.2	2942.7	2307.6	2157.0	2185.6	2149.3	2063.5	1939.6	1836.6
19853.2	55°	16782.7	11791.8	2998.0	2168.4	2015.8	2120.7	2099.8	1941.5	1792.7	1708.8
20970.8	57.5°	17713.4	12468.8	2937.0	1991.0	1901.4	2046.4	1966.3	1790.8	1705.0	1642.0
22425.9	60°	19002.6	13531.1	2805.4	1771.7	1792.7	1935.7	1798.4	1726.0	1632.5	1561.9
24607.7	62.5°	21144.3	15512.6	2593.7	1554.3	1664.9	1771.7	1718.3	1645.9	1550.5	1481.8
28338.0	65°	24310.2	18266.5	2195.1	1384.6	1521.9	1611.5	1632.5	1560.0	1460.9	1388.4
31606.9	67.5°	26980.2	19994.4	1661.1	1243.4	1375.0	1481.8	1541.0	1470.4	1365.5	1294.9
32371.6	70°	26833.3	18739.5	1268.2	1104.2	1245.4	1354.1	1430.3	1375.0	1262.5	1195.8
29404.1	72.5°	23833.4	15676.6	1026.0	963.1	1113.8	1220.6	1312.1	1270.1	1155.7	1090.9
21541.0	75°	17509.4	11128.1	820.1	820.1	949.8	1081.3	1182.4	1155.7	1050.8	1005.1
9043.6	77.5°	7380.6	4668.7	642.7	680.8	789.6	928.8	1054.6	1064.2	972.6	1029.9
2391.5	80°	1962.4	1287.3	490.1	535.9	619.8	766.7	917.3	913.5	814.3	760.9
888.7	82.5°	747.6	507.3	349.0	377.6	448.2	587.4	726.6	749.5	650.3	562.6
349.0	85°	288.0	217.4	215.5	226.9	261.3	389.1	549.3	568.3	490.1	415.8
97.3	87.5°	74.4	64.8	80.1	76.3	120.1	207.9	314.7	326.1	299.4	173.5
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>
5269.4
5027.2
4659.1
4323.5
4121.3
4064.1
4109.9
4174.7
4174.7
4079.4
3902.0
3669.3
3400.4
3102.9
2841.6
2723.4
2549.8
2313.3
2118.8
1989.1
1893.8
1838.5
1701.2
1636.3
1558.1
1481.8
1392.2
1296.8
<i>1201.5</i>
1090.9
991.7
934.5
707.5
562.6
429.1
247.9
0.0

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