

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: P954590

Luminaire Tested: **GALN-SB7D-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954590
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-SB7D-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77590 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

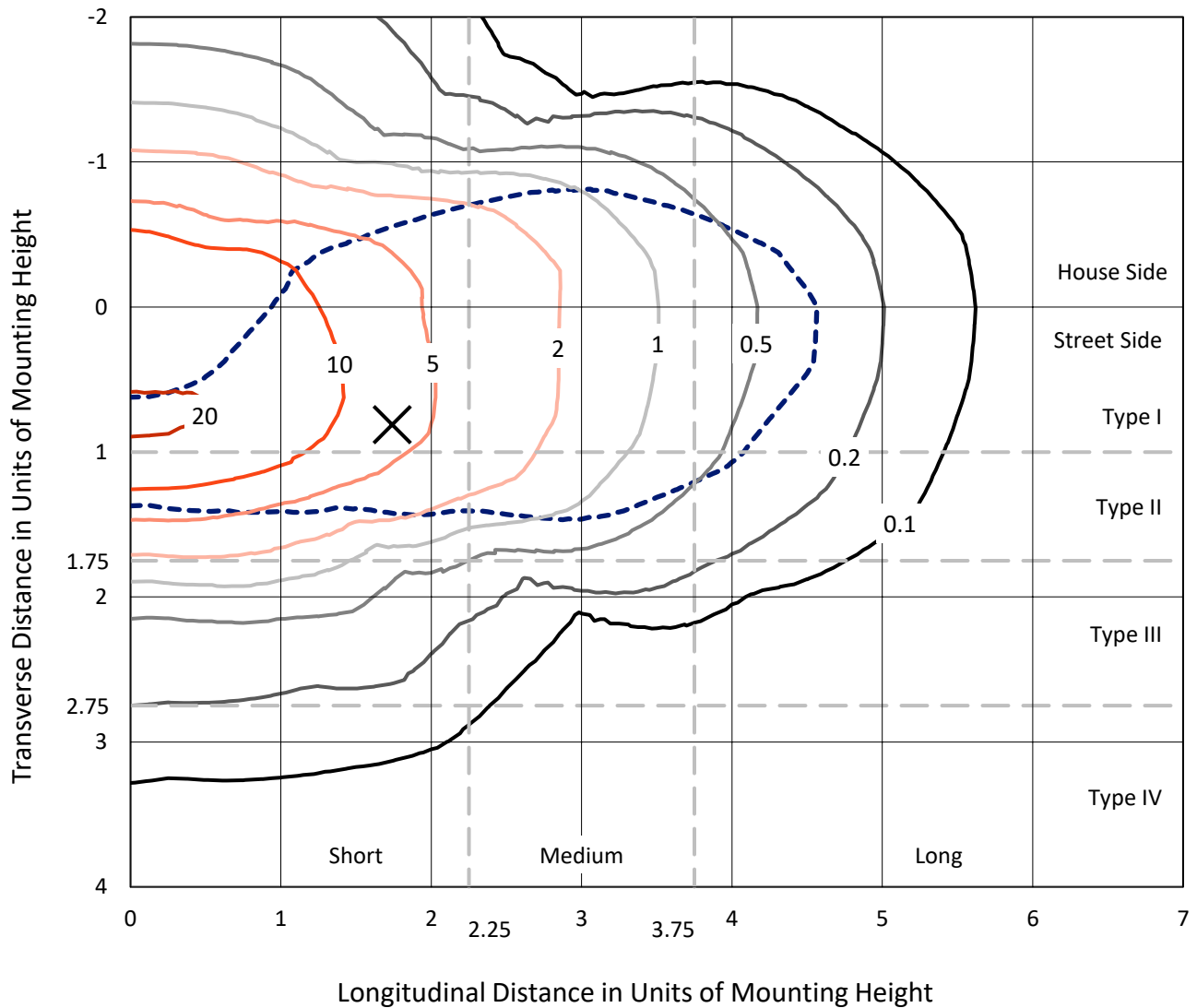
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

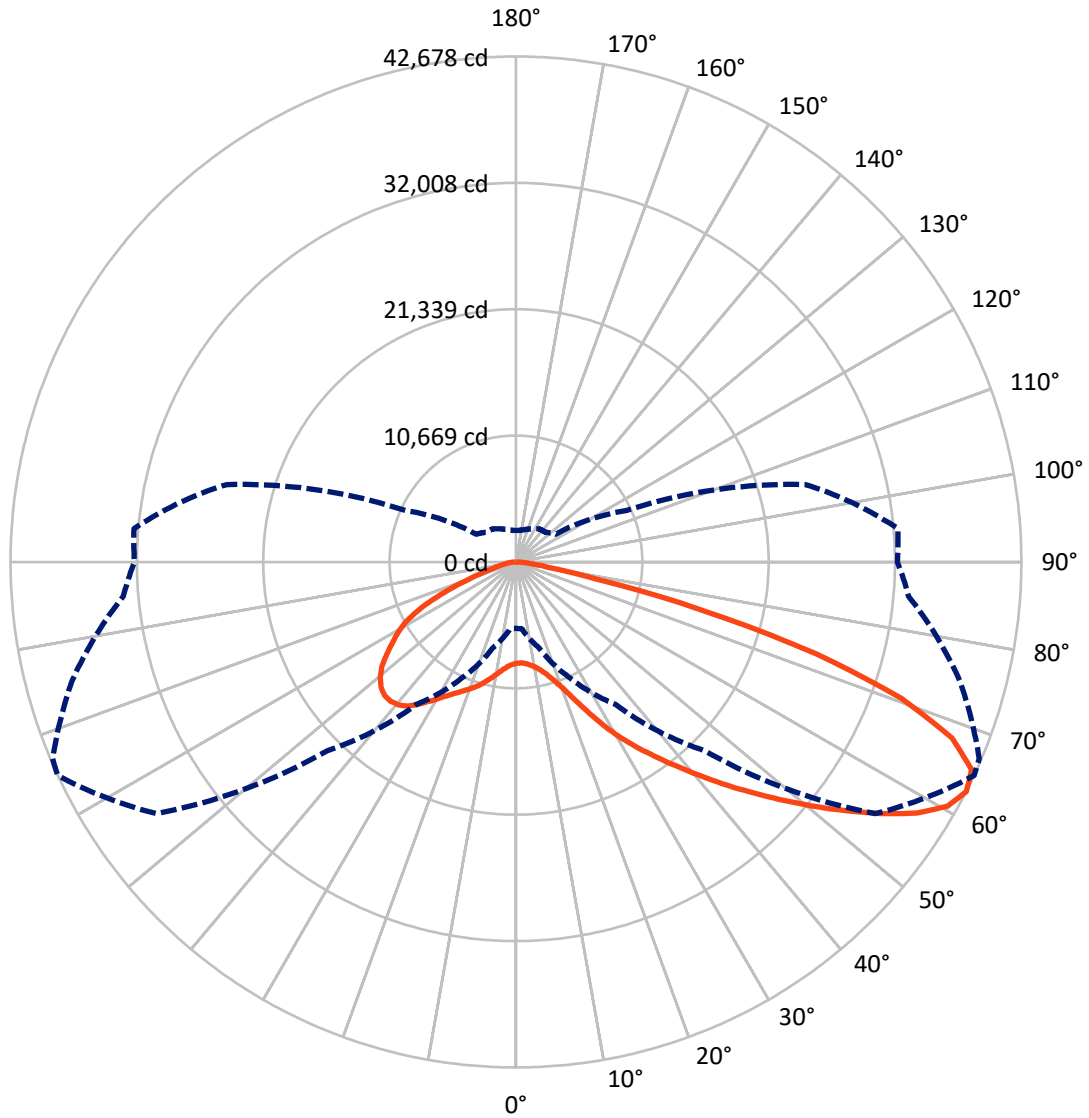
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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
House Side	Lumens	24484.0	0.0	24484.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	53106.0	0.0	53106.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	77590.0	0.0	77590.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.4	1.1
10°-20°	2890.7	3.7
20°-30°	5861.2	7.6
30°-40°	10142.6	13.1
40°-50°	15348.9	19.8
50°-60°	17995.7	23.2
60°-70°	15087.2	19.4
70°-80°	8329.4	10.7
80°-90°	1081.9	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°	77590.0	100.0
0°-180°	77590.0	100.0

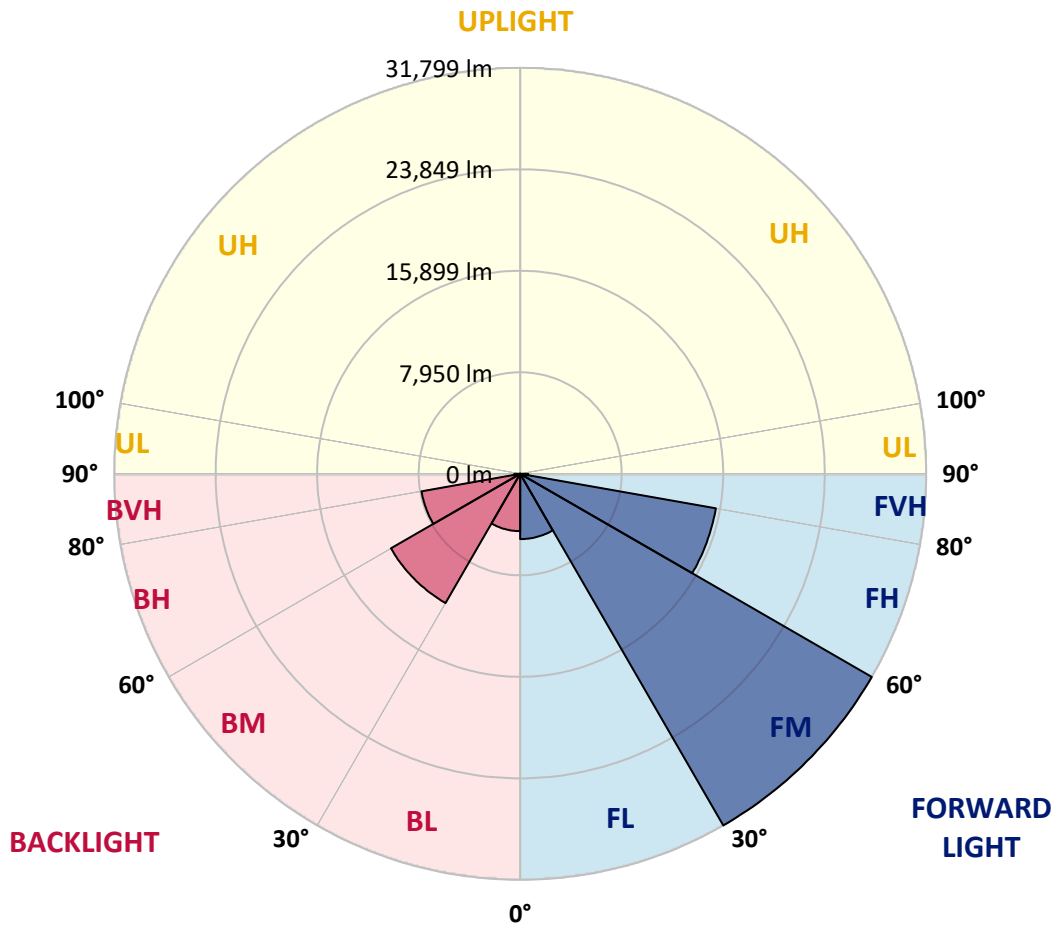


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5114.2	6.6			
FM (30°-60°)	31798.9	41.0			
FH (60°-80°)	15562.3	20.1			G5
FVH (80°-90°)	630.6	0.8			G4/750
BL (0°-30°)	4490.1	5.8	B4/5000		
BM (30°-60°)	11688.3	15.1	B5		
BH (60°-80°)	7854.3	10.1	B5		G5
BVH (80°-90°)	451.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1
2.5°	8493.7	8469.6	8489.7	8489.7	8497.8	8493.7	8521.9	8530.0	8542.0	8566.2
5°	8409.2	8405.2	8441.4	8473.6	8505.8	8534.0	8570.2	8622.5	8630.6	8658.8
7.5°	8381.0	8356.9	8413.2	8453.5	8530.0	8598.4	8695.0	8783.6	8819.8	8831.9
10°	8598.4	8558.1	8610.5	8634.6	8699.0	8767.5	8880.2	9021.1	9061.3	9109.6
12.5°	8968.7	8924.4	9000.9	9037.2	9097.5	9157.9	9234.4	9371.3	9391.4	9480.0
15°	9475.9	9423.6	9471.9	9516.2	9616.8	9673.2	9749.7	9882.5	9882.5	9950.9
17.5°	10164.3	10095.9	10132.1	10148.2	10212.6	10297.1	10425.9	10542.7	10603.1	10578.9
20°	11190.8	11106.2	11106.2	11025.7	11001.6	11070.0	11239.1	11400.1	11464.5	11339.7
22.5°	12732.5	12611.8	12543.3	12269.6	12160.9	12169.0	12338.0	12535.3	12587.6	12366.2
25°	14692.9	14503.7	14411.2	14008.6	13763.1	13549.7	13682.5	13936.1	14008.6	13734.9
27.5°	16653.3	16665.4	16576.9	16093.8	15687.2	15296.8	15228.3	15494.0	15570.5	15260.5
30°	19402.7	19116.9	18947.9	18368.2	17788.5	17241.1	16959.3	17068.0	17088.1	16717.7
32.5°	21773.7	21701.3	21339.0	20831.8	20087.1	19229.6	18758.7	18585.6	18553.4	18026.0
35°	24474.8	24434.6	24052.1	23448.3	22643.2	21451.7	20602.3	20107.2	20066.9	19326.2
37.5°	27220.2	27220.2	26845.8	26185.6	25352.4	23862.9	22570.8	21785.8	21657.0	20690.9
40°	29410.0	29277.2	29345.6	29067.9	28113.8	26531.8	24756.6	23617.4	23444.3	22285.0
42.5°	30653.9	30609.6	31020.2	31330.2	30939.7	29675.7	27163.8	25601.9	25360.4	24040.1
45°	30931.7	30883.3	31616.0	32751.2	33298.6	32779.3	29780.4	27691.2	27397.3	25875.7
47.5°	30291.6	30195.0	31269.8	33061.1	34816.2	35730.0	32614.3	29957.5	29530.8	27663.0
50°	28367.4	28274.8	29901.1	32280.2	35327.5	37734.7	35689.7	32360.7	31708.6	29579.1
52.5°	24185.0	24229.3	26777.4	30046.0	34655.2	38982.6	38338.5	34892.7	34107.7	31539.5
55°	18839.2	18935.8	22067.6	25666.3	31966.2	38793.4	40145.9	37501.2	36720.3	33383.2
57.5°	13489.3	13916.0	16850.6	20413.1	26801.5	35794.4	40540.4	39980.9	39224.1	35395.9
60°	8743.3	8819.8	11838.9	15429.6	20409.1	30464.7	39739.4	41860.8	41269.0	37448.9
62.5°	5603.4	5655.8	7495.4	10792.3	14688.9	22538.6	37042.3	42677.9	42496.8	38805.5
65°	4118.0	4077.8	5035.9	7133.1	9894.6	13899.9	31805.2	42283.5	42641.7	39654.8
67.5°	3437.7	3381.4	3852.4	4939.2	7290.1	7893.9	23532.9	39719.2	41031.5	39558.2
70°	3131.8	3083.5	3369.3	3667.2	5688.0	5285.4	11863.0	34530.4	36551.2	38459.3
72.5°	2652.8	2568.2	2958.7	3256.6	4424.0	4053.6	4903.0	26523.8	28987.4	34937.0
75°	2057.0	2000.7	2334.8	2866.1	3325.0	3164.0	3099.6	16105.9	18794.9	27018.9
77.5°	1630.3	1553.8	1859.8	2234.1	2990.9	2387.1	2258.3	6935.9	9600.7	17249.1
80°	1227.8	1159.3	1412.9	1767.2	2298.5	1799.4	1461.2	2829.9	3618.9	8739.3
82.5°	873.5	813.1	986.2	1296.2	1545.8	1614.2	897.7	1586.0	1783.3	3369.3
85°	559.5	523.3	660.2	813.1	982.2	1038.6	547.5	829.2	909.8	1388.8
87.5°	305.9	249.6	354.2	378.4	454.9	414.6	261.7	301.9	326.1	503.2
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°
8550.1	0°	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1	8550.1
8566.2	2.5°	8582.3	8594.4	8634.6	8646.7	8674.9	8711.1	8735.3	8759.4	8759.4	8783.6
8695.0	5°	8699.0	8727.2	8811.7	8856.0	8928.5	9000.9	9045.2	9097.5	9129.7	9145.8
8900.3	7.5°	8924.4	8968.7	9089.5	9166.0	9290.8	9391.4	9459.8	9532.3	9548.4	9592.7
9186.1	10°	9230.4	9282.7	9419.6	9564.5	9713.4	9838.2	9902.6	9955.0	9975.1	9983.1
9552.4	12.5°	9580.6	9657.1	9834.2	10011.3	10168.3	10277.0	10293.1	10281.0	10224.7	10176.4
10003.3	15°	10011.3	10079.8	10277.0	10470.2	10623.2	10643.3	10542.7	10478.3	10409.8	10397.8
10506.5	17.5°	10526.6	10562.8	10744.0	10933.2	10945.2	10876.8	10727.9	10667.5	10603.1	10558.8
11162.6	20°	11126.4	11114.3	11243.1	11323.6	11239.1	11029.8	10804.3	10703.7	10639.3	10587.0
11967.7	22.5°	11842.9	11750.3	11734.2	11714.1	11488.7	11049.9	10744.0	10615.1	10514.5	10442.0
13090.8	25°	12885.5	12531.3	12285.7	12148.8	11641.6	10941.2	10550.7	10264.9	10075.7	9950.9
14463.5	27.5°	14189.8	13594.0	12974.1	12640.0	11641.6	10719.8	10083.8	9620.9	9310.9	9182.1
15791.9	30°	15433.6	14809.7	13895.9	13231.7	11613.5	10357.5	9331.0	8686.9	8324.7	8195.8
16927.1	32.5°	16496.3	15816.0	14874.1	13879.8	11545.0	9769.8	8397.1	7684.6	7334.4	7181.4
18050.2	35°	17482.6	16758.0	15856.3	14592.3	11363.9	8908.3	7370.6	6827.2	6436.7	6191.2
19193.4	37.5°	18493.0	17631.5	16786.2	15236.4	11037.8	7902.0	6581.6	6118.7	5659.8	5329.7
20409.1	40°	19591.9	18561.4	17780.5	15618.8	10502.4	6943.9	5969.8	5547.1	5060.0	4709.8
21810.0	42.5°	20876.0	19676.5	18887.5	15816.0	9769.8	6263.6	5571.2	5156.6	4697.7	4411.9
23311.5	45°	22216.5	20904.2	19897.9	15812.0	8952.6	5945.6	5442.4	5031.8	4524.6	4226.7
24853.2	47.5°	23621.4	22188.3	20771.4	15554.4	8244.1	5989.9	5370.0	4762.1	4202.6	3912.7
26411.1	50°	25030.3	23593.2	21616.7	15071.3	7942.2	5893.3	5100.3	4383.7	3723.6	3461.9
27872.3	52.5°	26427.2	25086.7	22345.3	14383.0	7636.3	5535.0	4754.1	3892.6	3526.3	3345.2
29381.8	55°	27832.0	26564.0	23138.4	13380.6	6871.5	5116.4	4174.4	3707.5	3369.3	3204.3
30859.2	57.5°	29241.0	28270.8	23891.1	12378.3	5909.4	4601.1	3856.4	3482.0	3212.3	3071.4
32095.0	60°	30706.2	30223.2	24668.0	11456.5	4959.4	3940.9	3622.9	3300.9	3027.1	2870.2
33282.5	62.5°	32215.8	32372.8	25275.9	10269.0	4085.8	3538.4	3413.6	3083.5	2817.8	2668.9
34264.7	65°	33737.4	34445.9	25674.4	8622.5	3313.0	3156.0	3188.2	2846.0	2576.3	2447.5
34985.3	67.5°	34884.7	35939.3	25561.7	6525.3	2717.2	2793.7	2906.4	2596.4	2342.8	2242.2
34868.6	70°	35013.5	35762.2	24450.7	4468.3	2274.4	2439.4	2592.4	2350.9	2089.2	2016.8
33226.2	72.5°	33298.6	33346.9	21355.1	2918.5	1924.2	2141.5	2262.3	2101.3	1847.7	1775.2
29067.9	75°	28802.2	27578.4	15679.2	1924.2	1610.2	1839.6	1952.3	1839.6	1594.1	1610.2
21749.6	77.5°	21822.0	19531.5	9520.2	1368.7	1344.5	1545.8	1698.7	1618.2	1408.9	1582.0
10937.2	80°	11243.1	10566.8	4246.9	1022.5	1062.7	1235.8	1396.8	1292.2	1115.1	1062.7
2443.5	82.5°	2576.3	2994.9	1674.6	732.6	768.9	889.6	1066.7	970.1	801.1	676.3
1018.4	85°	901.7	986.2	740.7	458.9	450.9	555.5	724.6	648.1	543.4	434.7
430.7	87.5°	285.8	374.4	277.8	185.2	193.2	249.6	334.1	305.9	253.6	165.0
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>
8550.1
8783.6
9153.9
9576.6
9963.0
10176.4
10397.8
10562.8
10591.0
10466.2
9999.2
9246.5
8272.3
7257.9
6271.7
5418.3
4778.2
4468.3
4275.0
3953.0
3478.0
3345.2
3188.2
3047.3
2858.1
2664.9
2443.5
2246.2
2020.8
1771.2
1553.8
1392.8
970.1
668.2
458.9
173.1
0.0

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