

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: P943015

Luminaire Tested: **GALN-SB7B-750-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943015
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-SB7B-750-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41980 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

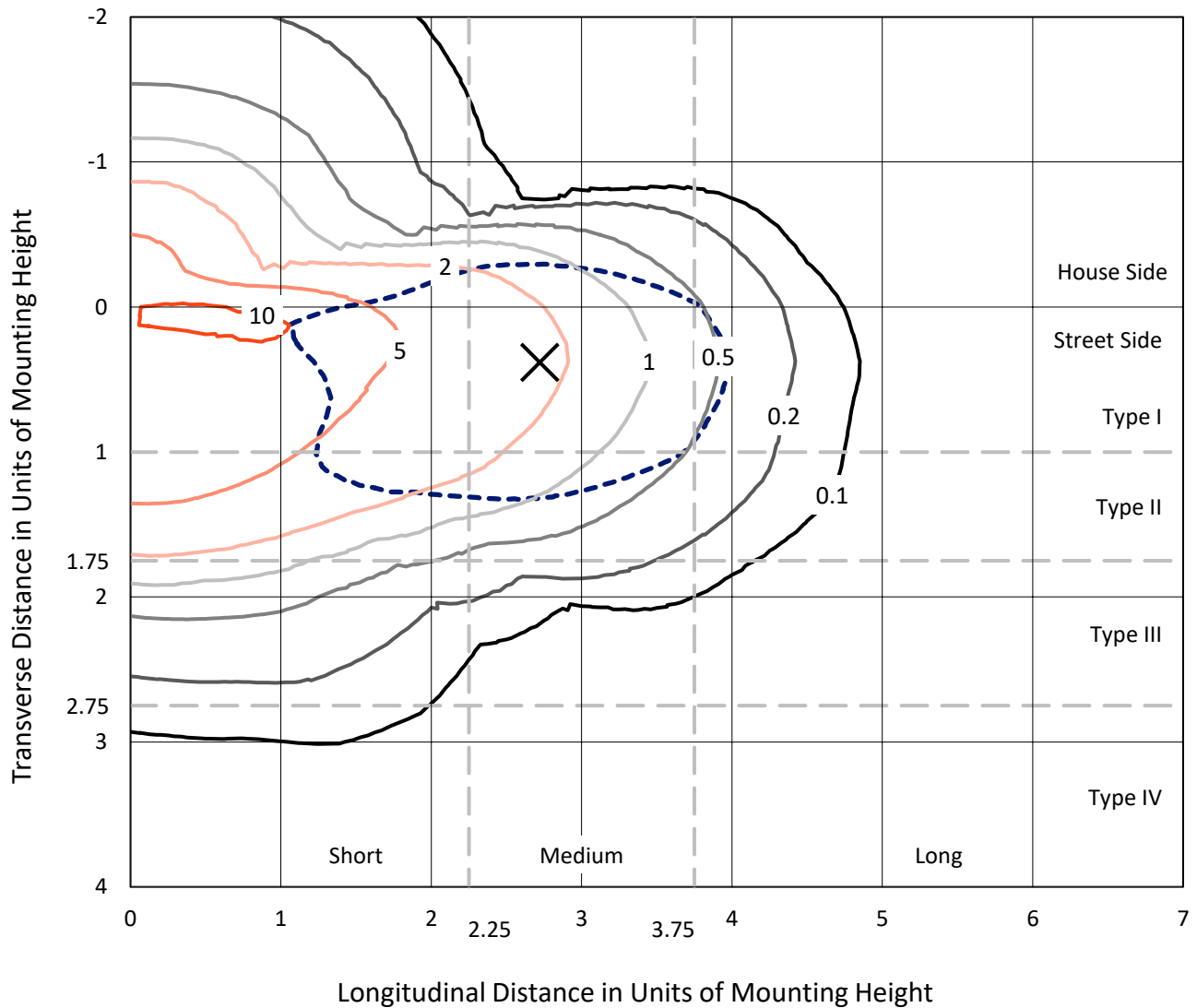
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

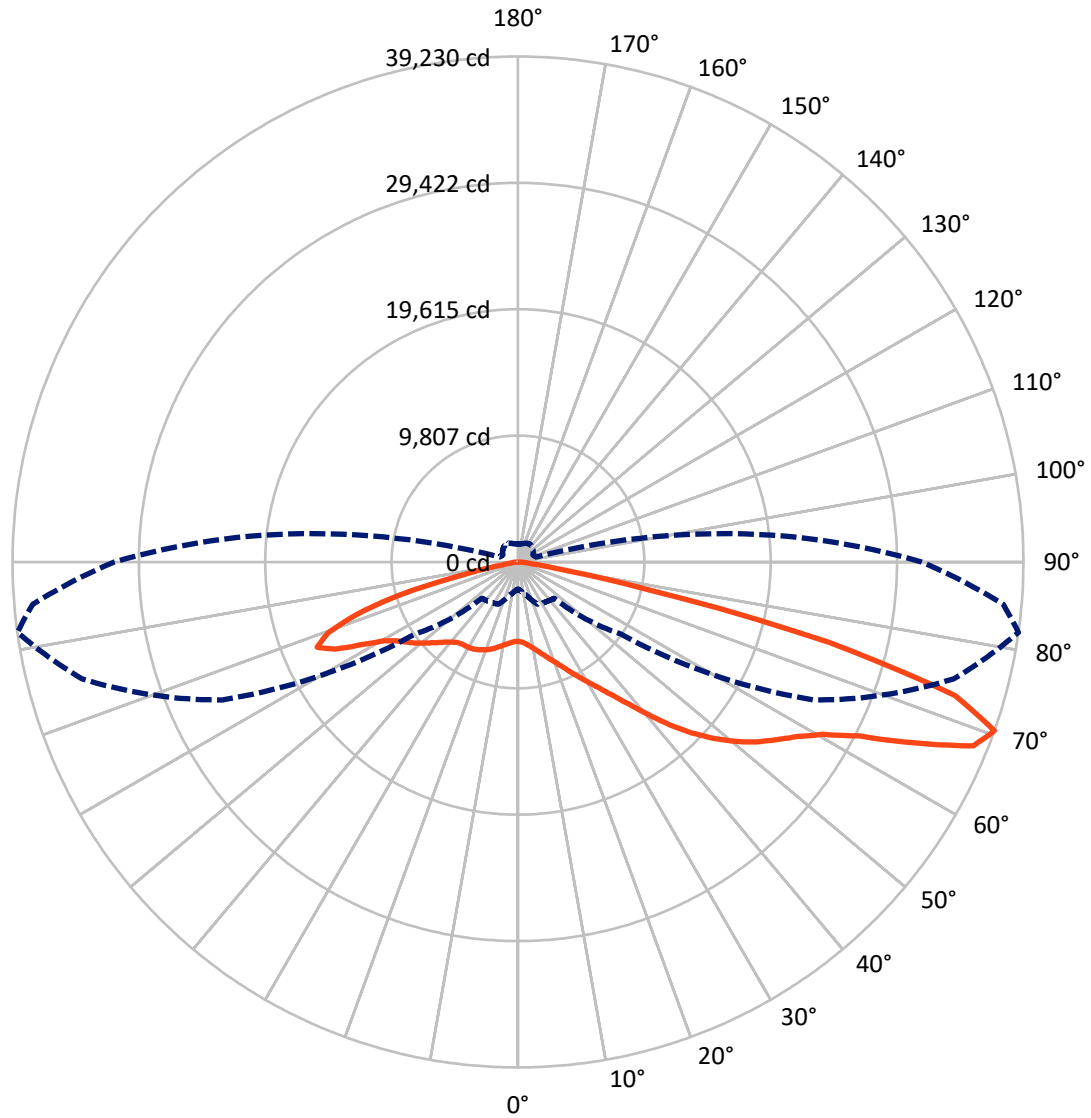
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	10349.1	0.0	10349.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	31630.9	0.0	31630.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	41980.0	0.0	41980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.1	1.4
10°-20°	1669.6	4.0
20°-30°	2793.1	6.7
30°-40°	4363.5	10.4
40°-50°	6949.4	16.6
50°-60°	9670.9	23.0
60°-70°	10116.2	24.1
70°-80°	5287.3	12.6
80°-90°	549.0	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°	41980.0	100.0
0°-180°	41980.0	100.0

Coefficient of Utilization



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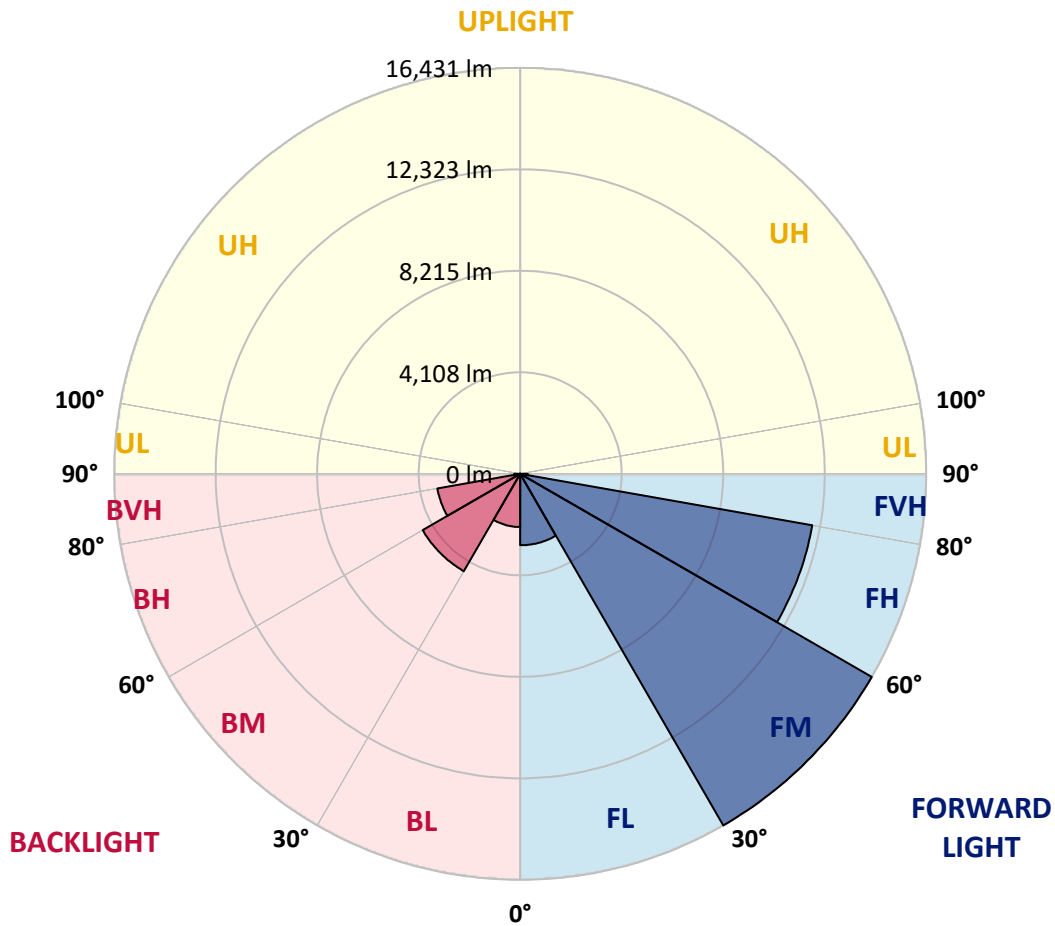
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.8	6.9			
FM (30°-60°)	16430.5	39.1			
FH (60°-80°)	12002.2	28.6			G5
FVH (80°-90°)	307.3	0.7			G3/500
BL (0°-30°)	2153.0	5.1	B3/2500		
BM (30°-60°)	4553.2	10.8	B3/5000		
BH (60°-80°)	3401.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	241.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8
2.5°	6301.8	6337.5	6326.3	6315.2	6315.2	6299.6	6297.4	6275.1	6257.3	6228.3
5°	6382.0	6419.9	6415.4	6424.3	6453.3	6460.0	6466.7	6453.3	6417.6	6382.0
7.5°	6310.7	6353.0	6366.4	6419.9	6509.0	6589.2	6649.3	6673.8	6640.4	6589.2
10°	6070.1	6116.9	6163.7	6290.7	6448.8	6638.2	6798.6	6894.3	6887.7	6838.7
12.5°	5582.3	5631.3	5731.6	5978.8	6268.4	6602.5	6901.0	7101.5	7170.6	7134.9
15°	5192.5	5234.8	5310.5	5564.5	5940.9	6448.8	6938.9	7328.7	7504.7	7484.7
17.5°	5181.3	5199.2	5245.9	5366.2	5655.8	6208.3	6898.8	7551.5	7887.8	7885.6
20°	5377.4	5384.1	5410.8	5435.3	5600.1	6025.6	6796.3	7736.4	8317.8	8317.8
22.5°	5649.1	5644.7	5671.4	5649.1	5729.3	6010.0	6731.7	7899.0	8796.7	8832.3
25°	6056.8	6034.5	6027.8	5976.6	5992.2	6154.8	6803.0	8083.9	9364.7	9438.2
27.5°	6600.3	6564.7	6540.2	6422.1	6382.0	6453.3	7021.3	8306.6	9997.4	10124.3
30°	7308.7	7244.1	7208.4	7003.5	6858.7	6869.8	7351.0	8602.9	10659.0	10863.9
32.5°	8275.4	8175.2	8079.4	7743.1	7478.0	7391.1	7776.5	9012.8	11376.2	11703.7
35°	9358.0	9277.9	9175.4	8656.4	8248.7	8048.2	8351.2	9585.3	12216.0	12735.1
37.5°	10400.6	10331.5	10380.5	9681.0	9155.3	8863.5	9104.1	10353.8	13251.9	14018.1
40°	11478.7	11425.2	11431.9	10763.6	10151.1	9823.6	10017.4	11318.3	14439.1	15544.0
42.5°	12650.4	12610.3	12476.7	11884.1	11195.8	10890.6	11068.8	12432.1	15713.3	17281.5
45°	13962.4	13937.9	13813.2	13133.8	12345.2	12002.2	12242.8	13661.7	16994.2	18916.6
47.5°	15096.3	15116.3	15100.7	14528.3	13710.7	13207.3	13494.7	14944.8	18185.9	20453.6
50°	15642.0	15746.7	15900.4	15722.2	15214.3	14702.0	14757.7	16183.3	19322.0	21894.8
52.5°	15356.9	15555.2	15973.9	16259.1	16455.1	16348.2	16198.9	17413.0	20391.2	23195.8
55°	14294.4	14572.8	15267.8	15956.1	16956.3	17733.7	17929.8	18776.2	21433.7	24340.7
57.5°	12358.6	12810.8	13434.5	14826.7	16510.8	18404.2	19947.9	20667.5	22538.6	25563.7
60°	9039.5	9645.4	10420.6	12492.2	14951.5	18045.6	21665.4	23572.2	24109.1	27147.5
62.5°	5785.0	6159.2	6872.1	8823.4	11650.2	16207.8	22191.1	27203.2	26771.0	29744.8
65°	3960.6	4201.2	4853.9	5949.9	7531.4	12064.6	20783.3	29925.3	30998.9	33861.4
67.5°	2878.0	3060.7	3617.6	4577.7	4907.4	7139.4	16127.7	29800.5	35108.8	38102.7
70°	2098.4	2227.6	2695.4	3617.6	3775.7	3971.8	9770.1	25332.0	35019.7	39229.8
72.5°	1554.8	1644.0	1958.0	2806.7	3056.2	2682.0	4836.1	18410.9	30092.3	35483.1
75°	1124.9	1191.8	1423.4	2147.4	2445.9	2042.7	2412.5	10759.2	20990.5	24960.0
77.5°	859.8	911.1	1062.6	1572.7	1958.0	1532.6	1496.9	4949.7	9952.8	10001.8
80°	690.5	724.0	806.4	1107.1	1501.4	1147.2	975.7	1998.1	3145.3	2662.0
82.5°	507.9	563.6	681.6	777.4	1073.7	790.8	594.8	1009.1	1196.2	1029.1
85°	289.6	327.5	412.1	556.9	686.1	483.4	340.8	447.7	556.9	456.7
87.5°	102.5	133.7	144.8	218.3	298.5	200.5	131.4	129.2	182.7	135.9
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°
6154.8	0°	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8	6154.8
6221.6	2.5°	6199.3	6188.2	6143.7	6083.5	6021.1	5961.0	5940.9	5898.6	5869.7	5854.1
6366.4	5°	6324.1	6288.4	6183.8	6050.1	5909.8	5758.3	5651.4	5553.3	5482.1	5415.2
6564.7	7.5°	6502.3	6439.9	6259.5	6025.6	5776.1	5524.4	5337.3	5194.7	5098.9	5036.5
6796.3	10°	6709.5	6613.7	6337.5	5987.7	5602.4	5241.5	5021.0	4898.4	4838.3	4804.9
7061.4	12.5°	6947.8	6811.9	6417.6	5900.8	5337.3	4925.2	4773.7	4738.1	4740.3	4742.5
7395.6	15°	7241.9	7052.5	6482.2	5711.5	4992.0	4682.4	4655.6	4713.6	4773.7	4802.7
7774.2	17.5°	7573.8	7306.4	6493.4	5399.6	4653.4	4526.4	4611.1	4735.8	4827.2	4867.3
8197.5	20°	7930.2	7564.8	6413.2	4958.6	4375.0	4399.5	4550.9	4711.3	4811.6	4862.8
8680.9	22.5°	8337.8	7841.1	6221.6	4495.2	4147.7	4261.4	4439.6	4595.5	4700.2	4751.4
9248.9	25°	8803.4	8150.7	5920.9	4105.4	3951.7	4105.4	4283.6	4412.8	4497.5	4544.3
9883.8	27.5°	9320.2	8473.7	5519.9	3795.8	3780.2	3945.0	4092.1	4192.3	4236.8	4272.5
10558.7	30°	9839.2	8767.7	5034.3	3561.9	3630.9	3786.9	3891.6	3936.1	3949.5	3956.2
11311.6	32.5°	10400.6	9021.7	4524.2	3368.1	3488.4	3633.2	3695.5	3715.6	3653.2	3610.9
12224.9	35°	11080.0	9293.4	4025.2	3214.4	3348.0	3472.8	3492.8	3475.0	3401.5	3314.6
13369.9	37.5°	11919.8	9632.0	3626.5	3105.2	3216.6	3299.0	3274.5	3270.1	3276.8	3174.3
14746.6	40°	12948.9	10073.1	3334.7	3020.6	3109.7	3127.5	3058.5	3096.3	3129.7	2973.8
16256.9	42.5°	14091.6	10605.5	3149.8	2962.7	3020.6	2978.3	2871.3	2913.7	2909.2	2704.3
17773.8	45°	15256.7	11184.7	3085.2	2920.4	2938.2	2853.5	2735.5	2746.6	2653.0	2468.2
19228.4	47.5°	16415.0	11806.2	3125.3	2884.7	2835.7	2739.9	2648.6	2599.6	2461.5	2323.4
20622.9	50°	17551.1	12458.8	3272.3	2813.4	2695.4	2639.7	2572.9	2486.0	2339.0	2220.9
21941.6	52.5°	18604.7	13116.0	3437.2	2695.4	2519.4	2552.8	2510.5	2410.2	2265.4	2145.2
23189.1	55°	19602.7	13773.1	3501.7	2532.8	2354.5	2477.1	2452.6	2267.7	2093.9	1995.9
24494.4	57.5°	20689.7	14563.9	3430.5	2325.6	2220.9	2390.2	2296.6	2091.7	1991.5	1917.9
26194.1	60°	22195.6	15804.7	3276.8	2069.4	2093.9	2261.0	2100.6	2016.0	1906.8	1824.4
28742.4	62.5°	24697.1	18119.1	3029.5	1815.5	1944.7	2069.4	2007.0	1922.4	1811.0	1730.8
33099.6	65°	28394.9	21335.7	2563.9	1617.2	1777.6	1882.3	1906.8	1822.2	1706.3	1621.7
36917.6	67.5°	31513.5	23353.9	1940.2	1452.4	1606.1	1730.8	1799.9	1717.5	1594.9	1512.5
37810.9	70°	31342.0	21888.2	1481.3	1289.8	1454.6	1581.6	1670.7	1606.1	1474.7	1396.7
34344.8	72.5°	27838.0	18310.7	1198.4	1124.9	1300.9	1425.6	1532.6	1483.6	1349.9	1274.2
25160.5	75°	20451.4	12997.9	957.9	957.9	1109.3	1263.0	1381.1	1349.9	1227.4	1173.9
10563.2	77.5°	8620.7	5453.1	750.7	795.2	922.2	1084.8	1231.8	1243.0	1136.1	1202.9
2793.4	80°	2292.2	1503.6	572.5	625.9	724.0	895.5	1071.5	1067.0	951.2	888.8
1038.1	82.5°	873.2	592.5	407.6	441.1	523.5	686.1	848.7	875.4	759.6	657.1
407.6	85°	336.4	253.9	251.7	265.1	305.2	454.4	641.5	663.8	572.5	485.6
113.6	87.5°	86.9	75.7	93.6	89.1	140.3	242.8	367.6	380.9	349.7	202.7
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>
6154.8
5871.9
5442.0
5049.9
4813.8
4747.0
4800.4
4876.2
4876.2
4764.8
4557.6
4285.9
3971.8
3624.3
3319.1
3181.0
2978.3
2702.0
2474.8
2323.4
2212.0
2147.4
1987.0
1911.3
1819.9
1730.8
1626.1
1514.8
<i>1403.4</i>
1274.2
1158.3
1091.5
826.4
657.1
501.2
289.6
0.0

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