

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: P954949

Luminaire Tested: **GALN-SB8A-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954949
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-SB8A-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39396 lumens
Efficiency: N/A
Efficacy: 173.5 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

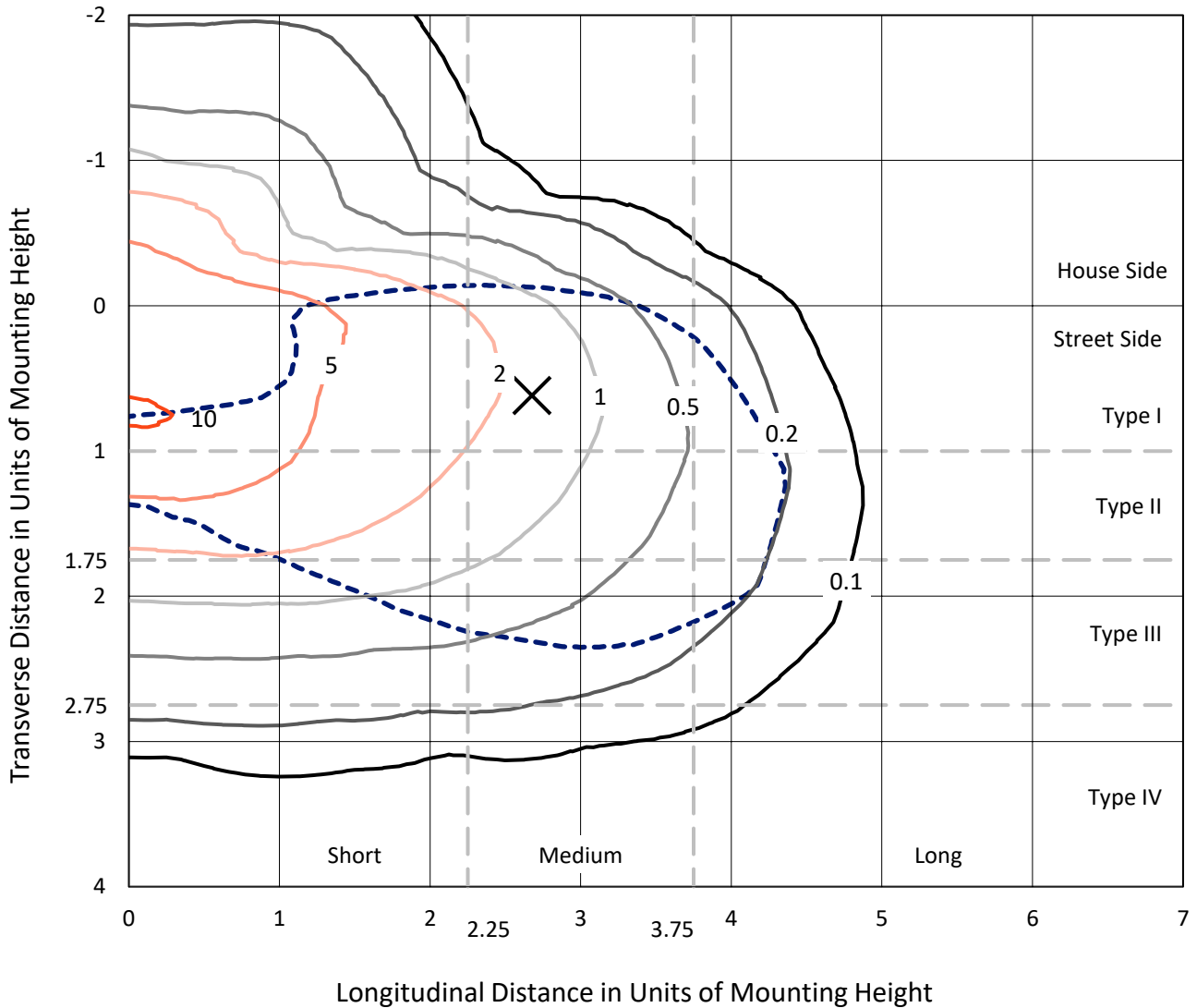
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

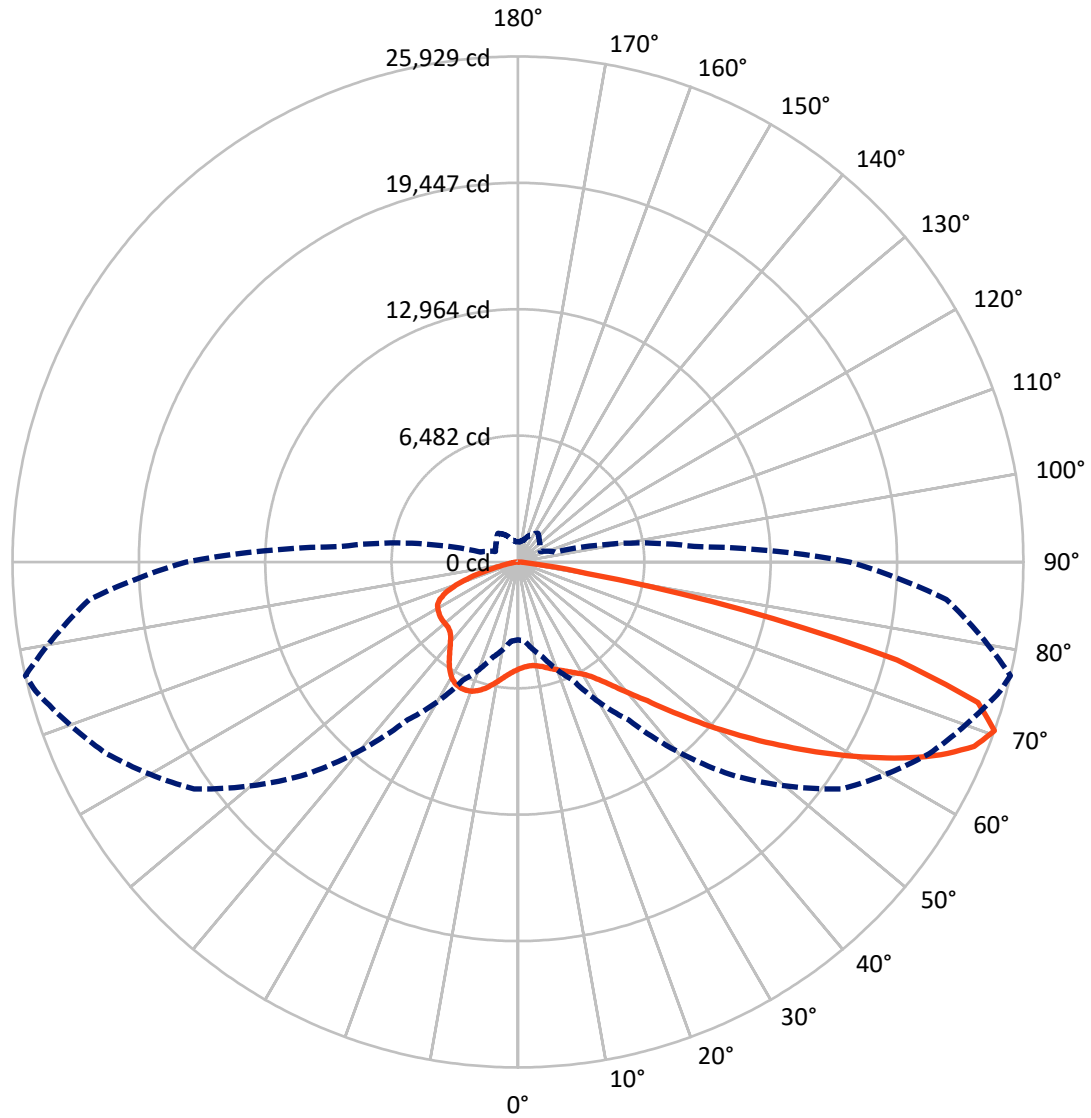
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	8627.1	0.0	8627.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	30768.9	0.0	30768.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	39396.0	0.0	39396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.2	1.3
10°-20°	1512.8	3.8
20°-30°	2587.2	6.6
30°-40°	4160.4	10.6
40°-50°	6495.5	16.5
50°-60°	8676.4	22.0
60°-70°	9247.7	23.5
70°-80°	5692.9	14.5
80°-90°	498.9	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°	39396.0	100.0
0°-180°	39396.0	100.0

Coefficient of Utilization



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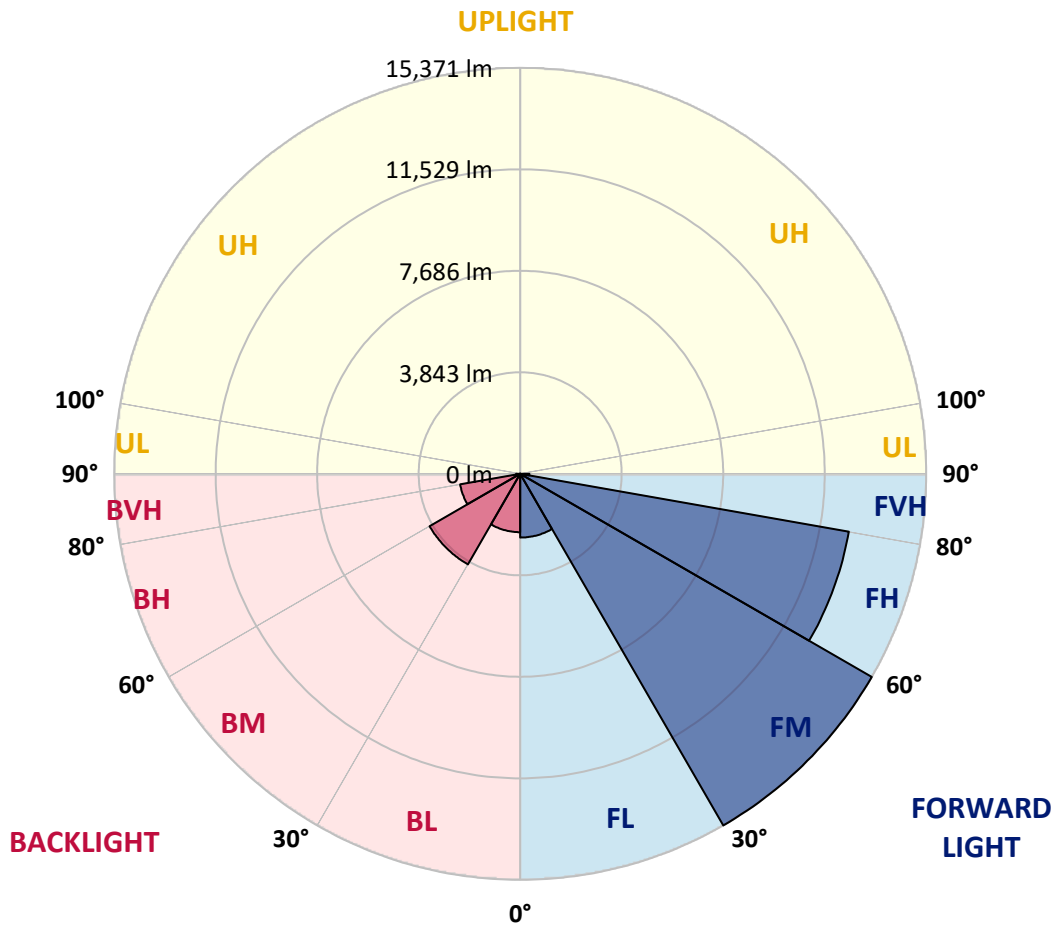
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2413.6	6.1			
FM (30°-60°)	15371.5	39.0			
FH (60°-80°)	12635.0	32.1			G5
FVH (80°-90°)	348.8	0.9			G3/500
BL (0°-30°)	2210.5	5.6	B3/2500		
BM (30°-60°)	3960.9	10.1	B3/5000		
BH (60°-80°)	2305.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	150.0	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°	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1
2.5°	5066.3	5064.3	5090.6	5098.6	5147.0	5181.3	5245.9	5314.5	5403.3	5413.4
5°	4773.8	4773.8	4804.0	4836.3	4898.9	4967.5	5066.3	5185.4	5338.7	5362.9
7.5°	4525.6	4541.7	4568.0	4630.5	4703.2	4802.0	4953.4	5122.8	5324.6	5362.9
10°	4325.9	4344.0	4376.3	4426.7	4535.7	4672.9	4870.6	5088.5	5358.9	5419.4
12.5°	4263.3	4281.5	4299.6	4338.0	4438.8	4600.3	4836.3	5104.7	5441.6	5502.2
15°	4408.6	4430.8	4416.7	4406.6	4459.0	4606.3	4852.5	5163.2	5544.5	5631.3
17.5°	4743.5	4751.6	4719.3	4624.5	4616.4	4695.1	4929.1	5243.9	5673.7	5768.5
20°	5284.2	5270.1	5203.5	5015.9	4909.0	4892.8	5060.3	5365.0	5806.8	5907.7
22.5°	6018.7	6002.5	5869.4	5572.8	5334.7	5177.3	5249.9	5522.3	5956.1	6069.1
25°	6934.7	6912.5	6716.8	6313.3	5944.0	5554.6	5508.2	5730.1	6139.7	6244.7
27.5°	8004.1	7985.9	7774.0	7241.4	6708.7	6071.1	5829.0	5974.3	6331.4	6450.5
30°	9154.1	9206.6	8831.3	8258.3	7584.4	6745.0	6260.8	6274.9	6579.6	6686.5
32.5°	10505.9	10596.7	10144.8	9418.4	8498.4	7477.4	6805.6	6694.6	6940.7	7029.5
35°	11845.7	11948.6	11573.3	10770.3	9711.0	8341.0	7374.5	7176.8	7420.9	7517.8
37.5°	13003.8	13141.0	12947.3	12249.2	11008.3	9382.1	8117.0	7743.8	8012.1	8133.2
40°	13917.8	14127.6	14113.5	13677.7	12537.7	10645.2	9059.3	8443.9	8746.5	8877.7
42.5°	14660.3	14841.9	14999.3	14977.1	14133.7	12079.7	10167.0	9353.9	9583.9	9735.2
45°	15172.8	15366.5	15705.5	16070.6	15669.1	13615.2	11436.1	10433.3	10643.1	10871.1
47.5°	15630.8	15850.7	16290.6	16869.6	16972.5	15156.6	12826.3	11690.3	11882.0	12118.1
50°	15671.2	15860.8	16542.8	17364.0	17898.6	16637.6	14319.3	13100.7	13280.2	13532.4
52.5°	14696.6	14995.2	16185.7	17349.8	18324.4	17876.5	15802.3	14567.5	14769.3	15071.9
55°	11407.8	11845.7	15138.5	16809.1	18173.0	18677.5	17212.6	16127.1	16385.4	16702.2
57.5°	9826.0	10017.7	12017.2	15824.5	17483.0	18885.3	18403.1	17702.9	18118.6	18465.6
60°	8831.3	8990.7	10173.0	14293.1	16575.1	18556.4	19323.1	19171.8	19890.1	20303.7
62.5°	7766.0	7917.3	8992.7	11934.4	15412.9	18009.6	19904.2	20527.7	21706.0	22157.9
65°	6708.7	6837.8	7868.9	10027.8	13936.0	17462.8	20204.8	21699.9	23386.7	23854.8
67.5°	5530.4	5637.3	6611.9	8460.0	12140.3	16714.3	20354.1	22622.0	24849.5	25251.0
70°	3990.9	4073.7	5080.5	6690.6	9886.5	15427.0	20293.6	23275.7	25608.1	25928.9
72.5°	1886.5	1961.2	3143.5	4344.0	6983.1	12921.1	19068.9	22757.2	24837.4	24678.0
75°	1006.8	1071.4	1805.8	2382.9	3688.3	8857.5	15604.6	19603.6	20856.5	20081.8
77.5°	682.0	732.4	1117.8	1430.5	1684.7	4204.8	10029.8	13572.8	13058.3	11779.1
80°	540.7	593.2	916.0	968.5	815.1	1519.3	4144.3	6283.0	4513.5	3609.6
82.5°	415.6	474.1	770.7	702.1	443.9	623.5	1206.6	1987.4	1156.1	879.7
85°	254.2	316.8	605.3	447.9	250.2	284.5	409.6	552.8	353.1	294.6
87.5°	129.1	181.6	306.7	163.4	113.0	66.6	109.0	109.0	92.8	80.7
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°
5496.1	0°	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1	5496.1
5467.9	2.5°	5516.3	5556.6	5625.2	5689.8	5740.2	5788.7	5837.1	5863.3	5871.4	5903.7
5498.1	5°	5580.8	5655.5	5788.7	5913.8	5992.4	6040.9	6075.2	6095.3	6099.4	6109.5
5580.8	7.5°	5699.9	5818.9	6004.6	6129.6	6188.2	6184.1	6170.0	6119.6	6099.4	6081.2
5701.9	10°	5867.4	6024.7	6252.7	6339.5	6303.2	6206.3	6081.2	5933.9	5865.3	5798.8
5867.4	12.5°	6075.2	6274.9	6498.9	6494.8	6315.3	6067.1	5776.6	5550.6	5407.3	5304.4
6071.1	15°	6327.4	6557.4	6728.9	6591.7	6198.2	5752.3	5326.6	5032.0	4902.9	4789.9
6276.9	17.5°	6587.7	6833.8	6912.5	6561.4	5903.7	5286.3	4804.0	4572.0	4444.9	4384.4
6498.9	20°	6841.9	7086.0	7021.5	6387.9	5455.7	4757.6	4327.9	4200.8	4174.5	4188.7
6714.8	22.5°	7110.2	7328.1	7043.6	6053.0	4884.8	4216.9	3980.8	3984.9	4043.4	4085.8
6940.7	25°	7384.6	7531.9	6985.1	5568.7	4271.4	3819.4	3760.9	3825.5	3940.5	4023.2
7195.0	27.5°	7648.9	7713.5	6858.0	4969.5	3744.8	3534.9	3545.0	3678.2	3851.7	3966.7
7503.7	30°	7947.6	7874.9	6613.9	4295.6	3379.6	3290.8	3375.5	3530.9	3704.4	3807.3
7893.1	32.5°	8284.5	8014.1	6226.5	3672.1	3121.3	3095.1	3234.3	3335.2	3411.9	3442.1
8409.6	35°	8704.2	8209.9	5730.1	3234.3	2889.3	2951.8	3085.0	3034.6	3004.3	2988.2
9103.7	37.5°	9248.9	8474.2	5149.1	2949.8	2701.6	2848.9	2903.4	2746.0	2627.0	2568.5
9945.0	40°	9904.7	8861.6	4590.2	2729.9	2582.6	2760.2	2665.3	2475.7	2324.3	2241.6
10891.3	42.5°	10633.1	9267.1	4120.1	2564.4	2516.0	2687.5	2489.8	2263.8	2019.7	1993.4
12019.2	45°	11397.8	9684.8	3799.3	2437.3	2483.7	2625.0	2388.9	2023.7	1850.2	1957.1
13151.1	47.5°	12162.4	10068.1	3605.6	2342.5	2467.6	2554.4	2300.1	1890.5	1767.5	1922.8
14363.7	50°	13013.9	10411.1	3518.8	2273.9	2449.4	2526.1	2167.0	1856.2	1680.7	1783.6
15618.7	52.5°	13859.3	10677.4	3454.2	2205.3	2423.2	2503.9	2102.4	1815.9	1575.8	1581.8
16881.7	55°	14702.7	10851.0	3383.6	2114.5	2364.7	2455.5	2096.3	1771.5	1497.1	1468.9
18217.4	57.5°	15602.6	10949.8	3296.9	2013.6	2263.8	2332.4	2090.3	1737.2	1472.9	1426.5
19583.4	60°	16518.6	11095.1	3183.9	1890.5	2128.6	2185.1	2076.2	1725.1	1458.8	1380.1
20870.7	62.5°	17339.8	11145.5	3048.7	1773.5	1955.1	2039.9	2045.9	1715.0	1420.4	1285.2
21940.0	65°	17878.5	10927.6	2812.6	1640.4	1767.5	1890.5	1987.4	1680.7	1351.8	1216.6
22468.6	67.5°	17856.3	10306.2	2443.4	1468.9	1585.9	1725.1	1902.7	1622.2	1269.1	1131.9
22069.1	70°	17025.0	9079.5	1975.3	1269.1	1386.1	1547.5	1793.7	1535.4	1170.2	1039.1
19623.7	72.5°	14601.8	7106.2	1434.6	1035.1	1154.1	1363.9	1652.5	1430.5	1069.4	956.4
14502.9	75°	10431.3	4497.4	972.5	795.0	897.9	1156.1	1476.9	1307.4	976.5	960.4
7263.6	77.5°	5328.6	2148.8	643.6	581.1	625.5	912.0	1240.9	1168.2	990.7	792.9
2066.1	80°	1733.2	792.9	405.5	395.5	415.6	607.3	960.4	958.4	750.6	538.7
500.4	82.5°	552.8	341.0	264.3	254.2	244.1	381.3	669.9	758.6	506.4	341.0
179.6	85°	219.9	203.8	155.4	143.3	102.9	179.6	351.1	504.4	377.3	246.2
46.4	87.5°	80.7	80.7	42.4	30.3	22.2	60.5	94.8	151.3	215.9	127.1
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>
5496.1
5921.8
6125.6
6085.3
5778.6
5280.2
4777.8
4402.5
4182.6
4095.8
4045.4
3995.0
3831.5
3458.3
3004.3
2582.6
2247.7
2019.7
2013.6
1995.5
1860.3
1624.2
1489.0
1432.5
1386.1
1285.2
1216.6
1138.0
<i>1051.2</i>
950.3
905.9
706.2
476.2
339.0
252.2
125.1
0.0

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