

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: P955894

Luminaire Tested: **GALN-SB8C-950-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955894  
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-SB8C-950-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

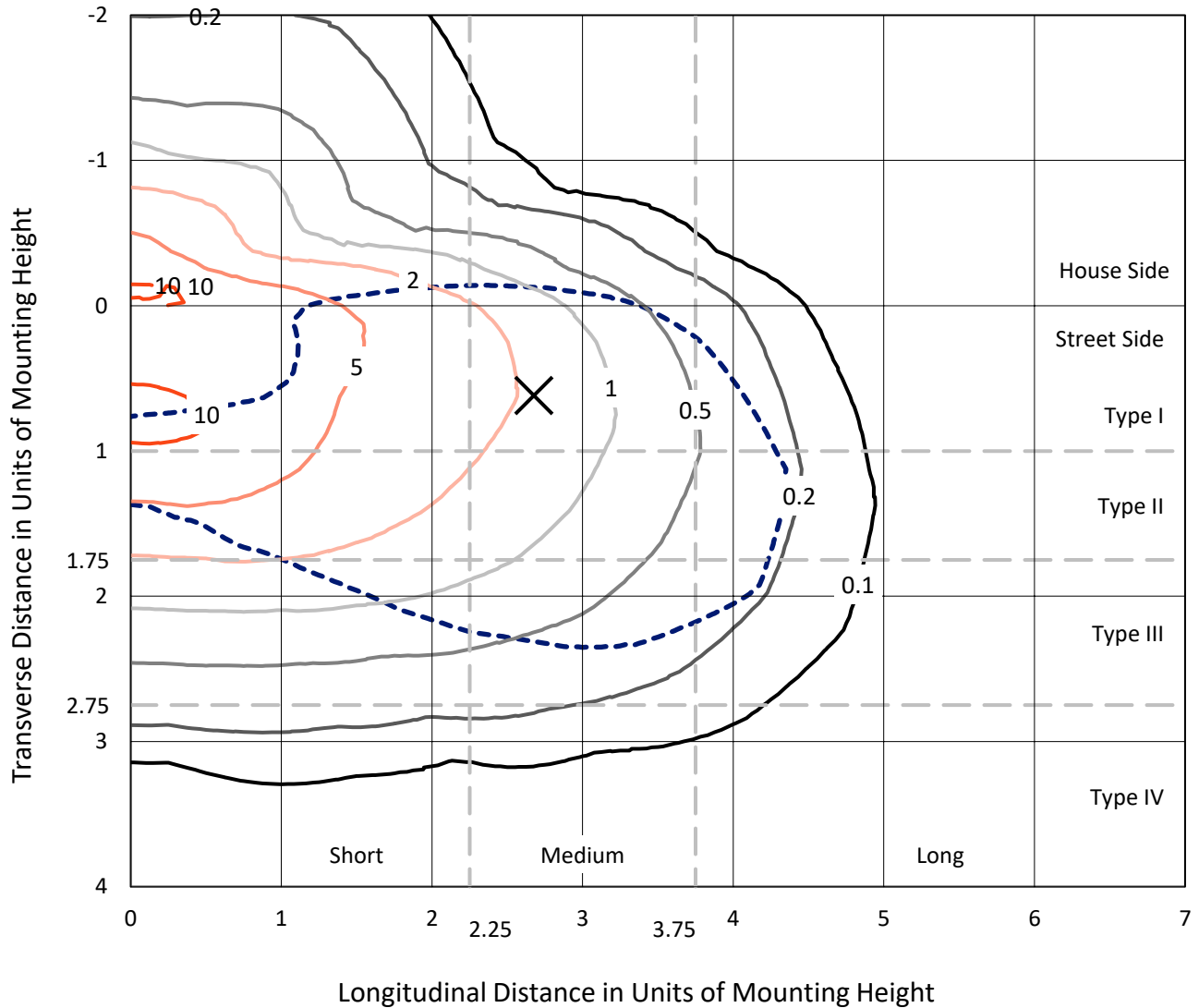
Lumens per Lamp: N/A  
Luminaire Lumens: 43248 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

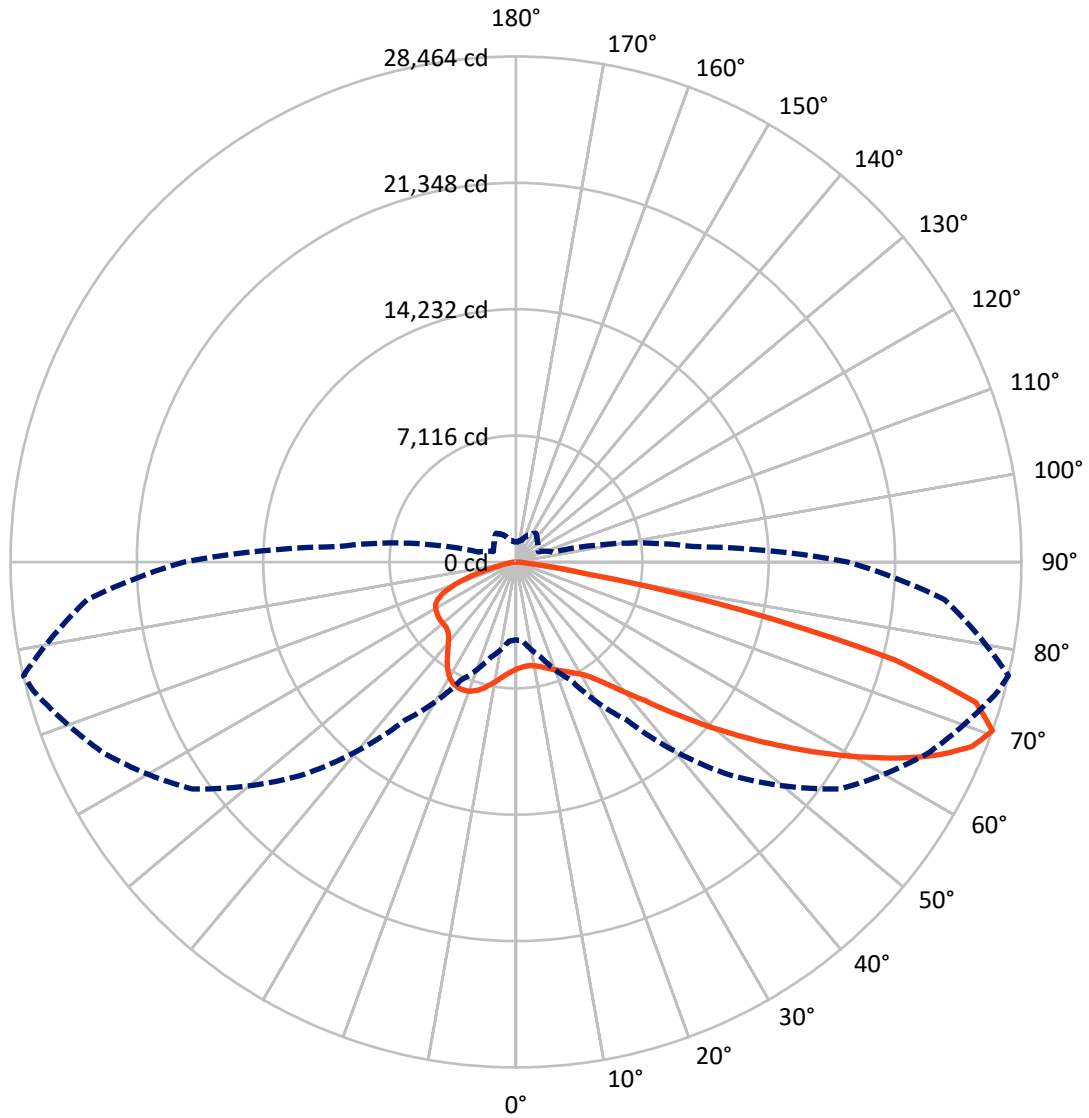
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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
<b>House Side</b>	Lumens	9470.6	0.0	9470.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	33777.4	0.0	33777.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	43248.0	0.0	43248.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	575.4	1.3
10°-20°	1660.8	3.8
20°-30°	2840.1	6.6
30°-40°	4567.2	10.6
40°-50°	7130.6	16.5
50°-60°	9524.8	22.0
60°-70°	10152.0	23.5
70°-80°	6249.5	14.5
80°-90°	547.6	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°	43248.0	100.0
0°-180°	43248.0	100.0



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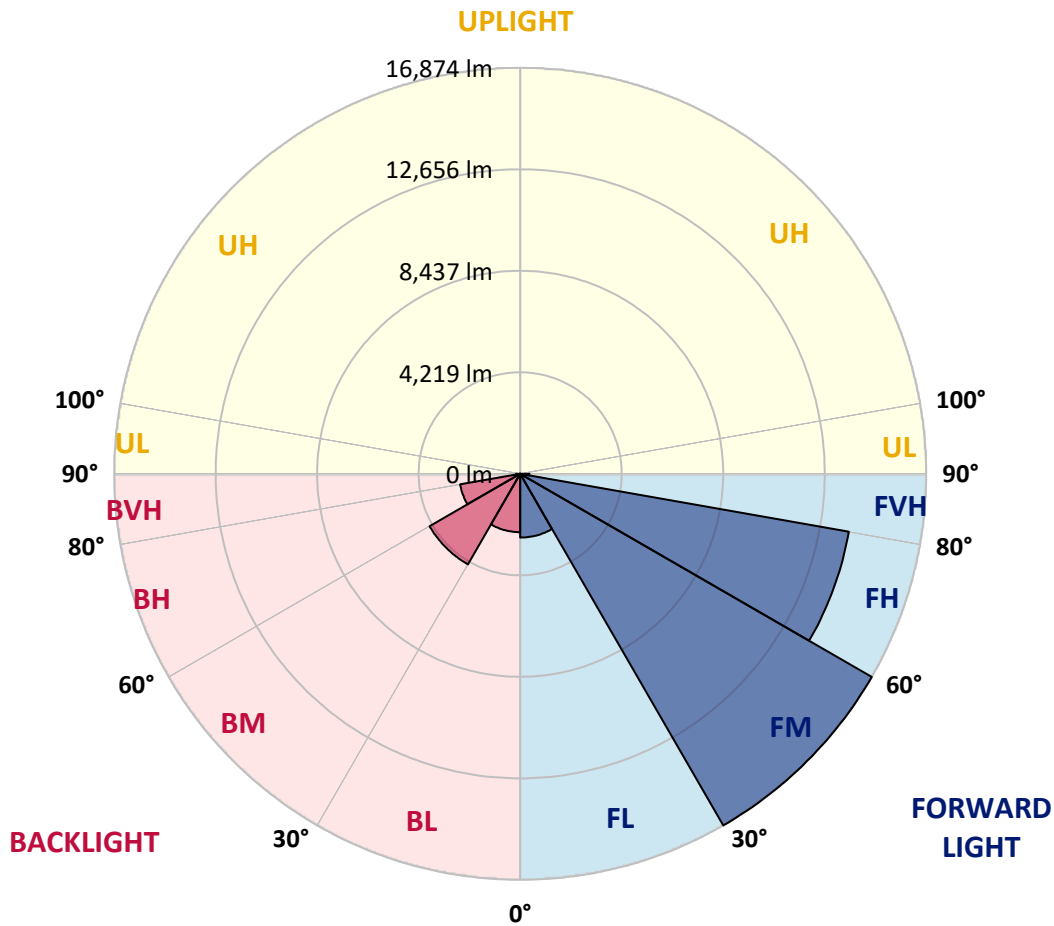
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2649.6	6.1			
FM (30°-60°)	16874.4	39.0			
FH (60°-80°)	13870.4	32.1			G5
FVH (80°-90°)	382.9	0.9			G3/500
BL (0°-30°)	2426.7	5.6	B3/2500		
BM (30°-60°)	4348.2	10.1	B3/5000		
BH (60°-80°)	2531.1	5.9	B4/5000		G4/5000
BVH (80°-90°)	164.7	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5
2.5°	5561.7	5559.5	5588.3	5597.1	5650.3	5688.0	5758.8	5834.1	5931.6	5942.7
5°	5240.5	5240.5	5273.8	5309.2	5377.9	5453.2	5561.7	5692.4	5860.7	5887.3
7.5°	4968.1	4985.8	5014.6	5083.3	5163.0	5271.6	5437.7	5623.7	5845.2	5887.3
10°	4748.8	4768.8	4804.2	4859.6	4979.2	5129.8	5346.9	5586.1	5882.9	5949.3
12.5°	4680.2	4700.1	4720.0	4762.1	4872.9	5050.1	5309.2	5603.8	5973.7	6040.1
15°	4839.6	4864.0	4848.5	4837.4	4895.0	5056.7	5326.9	5668.0	6086.6	6181.9
17.5°	5207.3	5216.2	5180.7	5076.6	5067.8	5154.2	5411.1	5756.6	6228.4	6332.5
20°	5800.9	5785.4	5712.3	5506.3	5388.9	5371.2	5555.1	5889.5	6374.6	6485.3
22.5°	6607.2	6589.4	6443.3	6117.7	5856.3	5683.5	5763.3	6062.3	6538.5	6662.5
25°	7612.7	7588.4	7373.5	6930.5	6525.2	6097.7	6046.8	6290.4	6740.1	6855.2
27.5°	8786.7	8766.7	8534.2	7949.4	7364.7	6664.7	6399.0	6558.4	6950.5	7081.2
30°	10049.2	10106.8	9694.8	9065.7	8326.0	7404.5	6873.0	6888.5	7222.9	7340.3
32.5°	11533.2	11632.9	11136.7	10339.3	9329.3	8208.6	7471.0	7349.2	7619.4	7716.8
35°	13003.9	13116.9	12704.9	11823.3	10660.5	9156.6	8095.6	7878.5	8146.5	8252.9
37.5°	14275.3	14425.9	14213.3	13446.9	12084.7	10299.5	8910.7	8500.9	8795.5	8928.4
40°	15278.6	15509.0	15493.5	15015.1	13763.6	11686.0	9945.1	9269.5	9601.8	9745.7
42.5°	16093.7	16293.1	16465.8	16441.5	15515.6	13260.8	11161.1	10268.5	10521.0	10687.1
45°	16656.3	16869.0	17241.1	17642.0	17201.2	14946.4	12554.3	11453.4	11683.8	11934.1
47.5°	17159.1	17400.6	17883.4	18519.1	18632.1	16638.6	14080.4	12833.3	13043.8	13302.9
50°	17203.4	17411.6	18160.3	19061.8	19648.7	18264.4	15719.4	14381.6	14578.7	14855.6
52.5°	16133.6	16461.4	17768.2	19046.3	20116.1	19624.3	17347.4	15991.9	16213.3	16545.6
55°	12523.3	13003.9	16618.7	18452.6	19949.9	20503.7	18895.6	17704.0	17987.5	18335.3
57.5°	10786.7	10997.2	13192.2	17371.8	19192.4	20731.8	20202.4	19433.9	19890.1	20271.1
60°	9694.8	9869.8	11167.7	15690.6	18195.7	20370.8	21212.5	21046.3	21834.9	22288.9
62.5°	8525.3	8691.4	9872.0	13101.4	16919.9	19770.5	21850.4	22534.8	23828.3	24324.4
65°	7364.7	7506.4	8638.3	11008.2	15298.6	19170.3	22180.4	23821.7	25673.3	26187.2
67.5°	6071.1	6188.5	7258.4	9287.2	13327.3	18348.5	22344.3	24833.9	27279.2	27719.9
70°	4381.1	4472.0	5577.2	7344.7	10853.2	16935.4	22277.8	25551.5	28112.0	28464.2
72.5°	2071.0	2152.9	3450.9	4768.8	7665.9	14184.5	20933.4	24982.3	27265.9	27090.9
75°	1105.3	1176.1	1982.4	2615.8	4048.9	9723.6	17130.3	21520.3	22895.8	22045.3
77.5°	748.6	804.0	1227.1	1570.4	1849.5	4615.9	11010.5	14899.9	14335.1	12930.8
80°	593.6	651.2	1005.6	1063.2	894.8	1667.8	4549.5	6897.3	4954.8	3962.5
82.5°	456.3	520.5	846.1	770.8	487.3	684.4	1324.5	2181.7	1269.2	965.7
85°	279.1	347.7	664.5	491.7	274.7	312.3	449.6	606.9	387.6	323.4
87.5°	141.8	199.3	336.7	179.4	124.0	73.1	119.6	119.6	101.9	88.6
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°
6033.5	0°	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5
6002.5	2.5°	6055.6	6099.9	6175.2	6246.1	6301.5	6354.7	6407.8	6436.6	6445.5	6480.9
6035.7	5°	6126.5	6208.5	6354.7	6492.0	6578.4	6631.5	6669.2	6691.3	6695.8	6706.8
6126.5	7.5°	6257.2	6387.9	6591.7	6729.0	6793.2	6788.8	6773.3	6717.9	6695.8	6675.8
6259.4	10°	6441.0	6613.8	6864.1	6959.3	6919.5	6813.1	6675.8	6514.1	6438.8	6365.7
6441.0	12.5°	6669.2	6888.5	7134.3	7129.9	6932.8	6660.3	6341.4	6093.3	5936.0	5823.1
6664.7	15°	6946.0	7198.5	7386.8	7236.2	6804.3	6314.8	5847.4	5524.1	5382.3	5258.3
6890.7	17.5°	7231.8	7502.0	7588.4	7203.0	6480.9	5803.1	5273.8	5019.0	4879.5	4813.1
7134.3	20°	7510.9	7778.9	7708.0	7012.5	5989.2	5222.8	4751.0	4611.5	4582.7	4598.2
7371.3	22.5°	7805.4	8044.7	7732.3	6644.8	5362.4	4629.2	4370.1	4374.5	4438.7	4485.2
7619.4	25°	8106.7	8268.4	7668.1	6113.2	4689.0	4192.9	4128.6	4199.5	4325.8	4416.6
7898.5	27.5°	8396.8	8467.7	7528.6	5455.4	4110.9	3880.6	3891.6	4037.8	4228.3	4354.6
8237.4	30°	8724.6	8644.9	7260.6	4715.6	3710.0	3612.6	3705.6	3876.1	4066.6	4179.6
8664.8	32.5°	9094.5	8797.7	6835.3	4031.2	3426.5	3397.7	3550.5	3661.3	3745.5	3778.7
9231.9	35°	9555.2	9012.6	6290.4	3550.5	3171.8	3240.5	3386.6	3331.3	3298.0	3280.3
9993.8	37.5°	10153.3	9302.7	5652.5	3238.2	2965.8	3127.5	3187.3	3014.5	2883.8	2819.6
10917.4	40°	10873.1	9728.0	5039.0	2996.8	2835.1	3030.0	2925.9	2717.7	2551.6	2460.8
11956.2	42.5°	11672.7	10173.2	4522.9	2815.2	2762.0	2950.3	2733.2	2485.2	2217.2	2188.4
13194.4	45°	12512.2	10631.7	4170.7	2675.6	2726.6	2881.6	2622.5	2221.6	2031.1	2148.5
14437.0	47.5°	13351.6	11052.5	3958.1	2571.5	2708.9	2804.1	2525.0	2075.4	1940.3	2110.8
15768.1	50°	14286.3	11429.1	3862.9	2496.2	2688.9	2773.1	2378.8	2037.7	1845.0	1958.0
17145.8	52.5°	15214.4	11721.5	3792.0	2420.9	2660.1	2748.7	2308.0	1993.4	1729.9	1736.5
18532.4	55°	16140.3	11911.9	3714.5	2321.3	2595.9	2695.6	2301.3	1944.7	1643.5	1612.5
19998.7	57.5°	17128.1	12020.5	3619.2	2210.5	2485.2	2560.5	2294.7	1907.1	1616.9	1566.0
21498.2	60°	18133.7	12179.9	3495.2	2075.4	2336.8	2398.8	2279.2	1893.8	1601.4	1515.0
22911.3	62.5°	19035.2	12235.3	3346.8	1946.9	2146.3	2239.3	2245.9	1882.7	1559.3	1410.9
24085.2	65°	19626.6	11996.1	3087.6	1800.7	1940.3	2075.4	2181.7	1845.0	1484.0	1335.6
24665.5	67.5°	19602.2	11313.9	2682.3	1612.5	1740.9	1893.8	2088.7	1780.8	1393.2	1242.6
24227.0	70°	18689.6	9967.2	2168.4	1393.2	1521.7	1698.9	1969.1	1685.6	1284.7	1140.7
21542.5	72.5°	16029.5	7801.0	1574.8	1136.3	1266.9	1497.3	1814.0	1570.4	1173.9	1049.9
15921.0	75°	11451.2	4937.1	1067.6	872.7	985.6	1269.2	1621.3	1435.3	1072.0	1054.3
7973.8	77.5°	5849.7	2358.9	706.6	637.9	686.6	1001.2	1362.2	1282.4	1087.5	870.5
2268.1	80°	1902.6	870.5	445.2	434.1	456.3	666.7	1054.3	1052.1	824.0	591.4
549.3	82.5°	606.9	374.3	290.2	279.1	268.0	418.6	735.4	832.8	555.9	374.3
197.1	85°	241.4	223.7	170.6	157.3	113.0	197.1	385.4	553.7	414.2	270.2
50.9	87.5°	88.6	88.6	46.5	33.2	24.4	66.4	104.1	166.1	237.0	139.5
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>
6033.5
6500.8
6724.6
6680.3
6343.6
5796.5
5245.0
4833.0
4591.6
4496.3
4441.0
4385.6
4206.2
3796.4
3298.0
2835.1
2467.4
2217.2
2210.5
2190.6
2042.2
1783.0
1634.6
1572.6
1521.7
1410.9
1335.6
1249.2
<i>1154.0</i>
1043.2
994.5
775.2
522.7
372.1
276.9
137.3
0.0

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