

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: P943934

Luminaire Tested: **GALN-SB8C-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26917 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

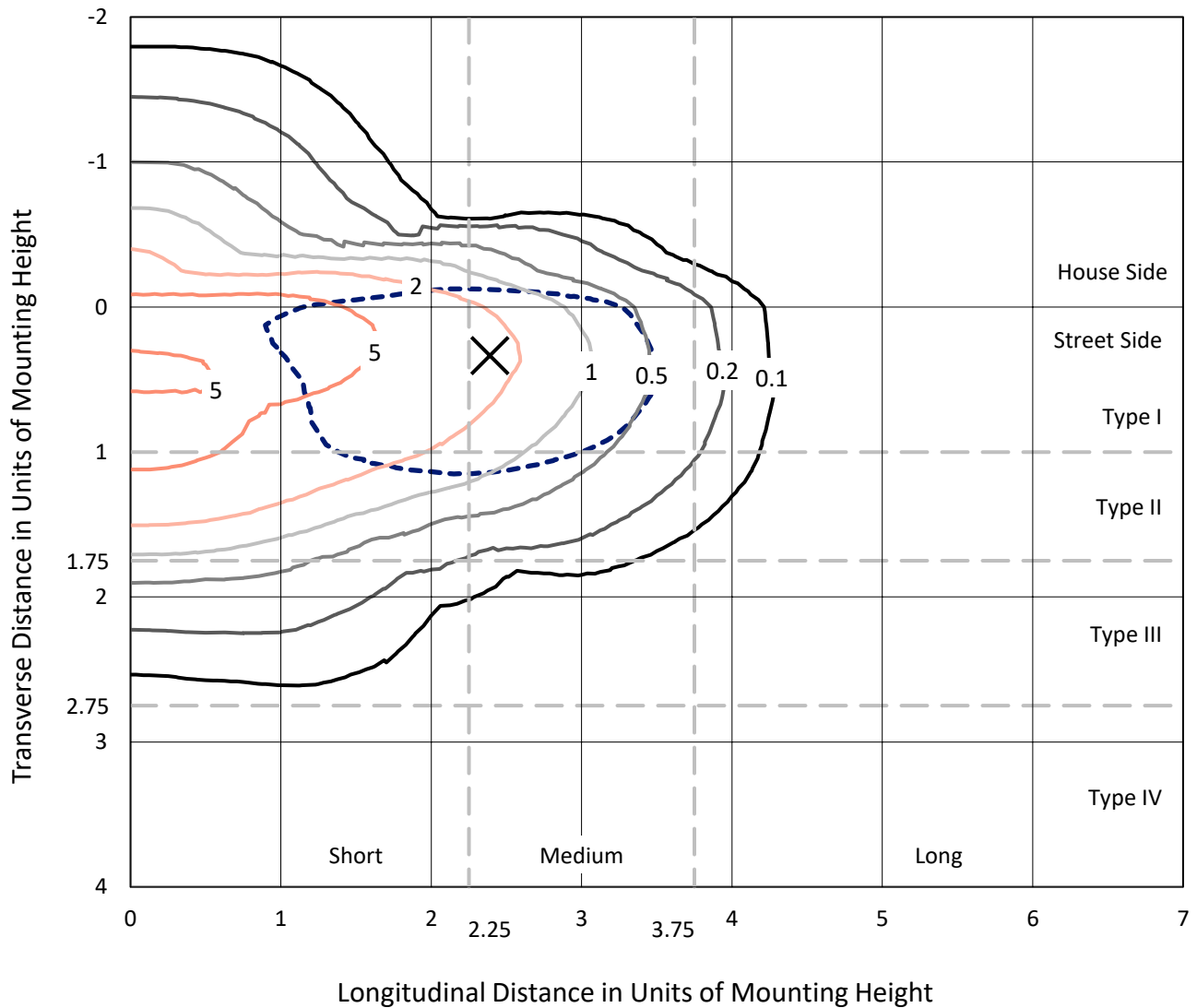
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

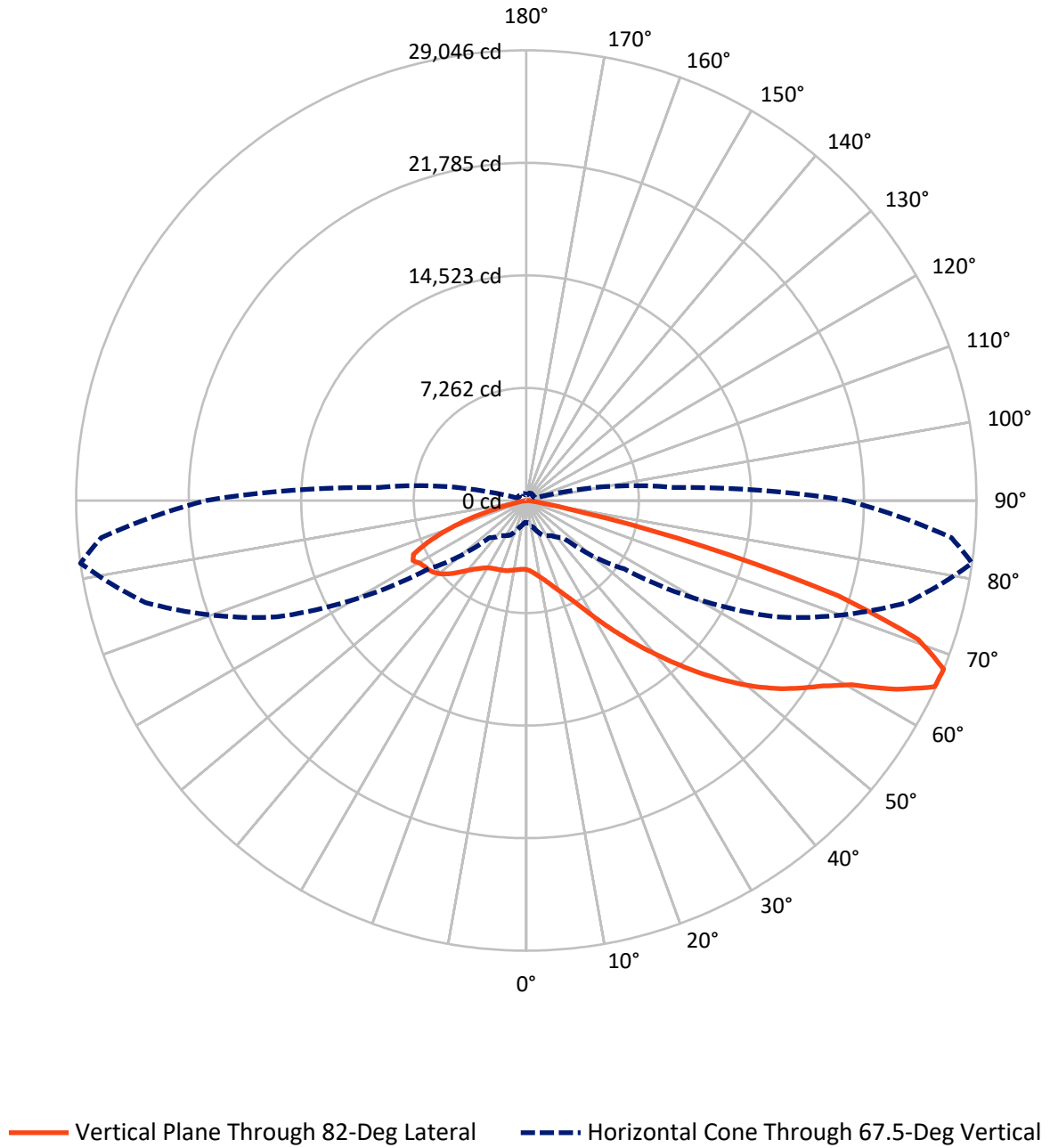
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4875.8	0.0	4875.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22041.2	0.0	22041.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	26917.0	0.0	26917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.3	1.5
10°-20°	1032.4	3.8
20°-30°	1653.5	6.1
30°-40°	2924.0	10.9
40°-50°	5123.1	19.0
50°-60°	6832.8	25.4
60°-70°	6361.0	23.6
70°-80°	2441.3	9.1
80°-90°	151.6	0.6
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°	26917.0	100.0
0°-180°	26917.0	100.0

Coefficient of Utilization



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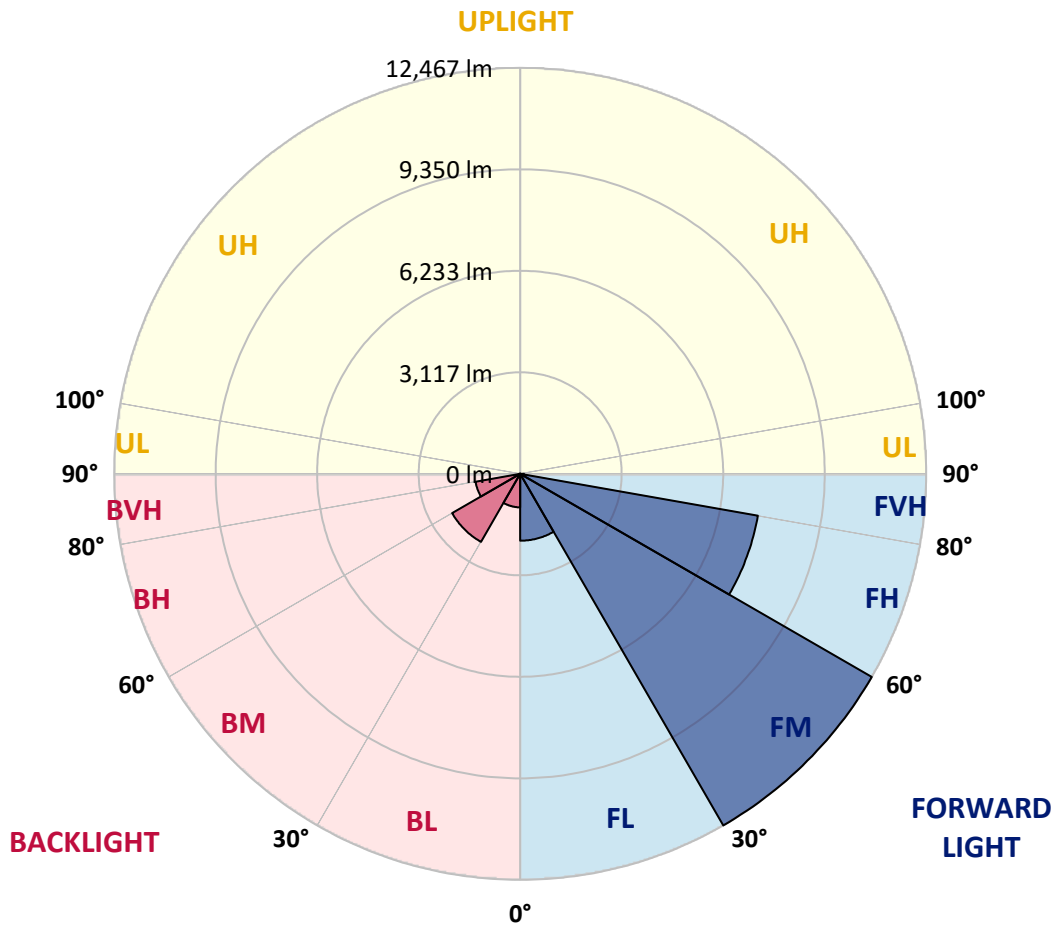
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.5	7.6			
FM (30°-60°)	12466.9	46.3			
FH (60°-80°)	7410.7	27.5			G3/7500
FVH (80°-90°)	110.2	0.4			G2/225
BL (0°-30°)	1029.7	3.8	B3/2500		
BM (30°-60°)	2413.0	9.0	B2/2500		
BH (60°-80°)	1391.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	41.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2
2.5°	4713.1	4740.2	4724.7	4717.0	4703.4	4684.0	4668.5	4620.1	4569.7	4536.8
5°	4808.1	4835.2	4833.3	4841.0	4850.7	4856.5	4852.6	4798.4	4726.7	4670.5
7.5°	4726.7	4757.7	4782.9	4821.6	4889.5	4961.2	4996.0	4984.4	4910.8	4833.3
10°	4496.1	4529.0	4589.1	4680.2	4823.6	4978.6	5108.5	5168.5	5122.0	5036.7
12.5°	4073.6	4106.5	4224.7	4422.4	4662.7	4932.1	5180.2	5341.0	5352.6	5267.4
15°	3598.8	3631.7	3757.7	4005.8	4372.0	4804.2	5218.9	5523.2	5625.9	5552.2
17.5°	3304.2	3333.3	3428.2	3627.9	4009.6	4548.4	5205.3	5717.0	5951.5	5893.3
20°	3215.1	3240.3	3284.8	3424.4	3742.2	4282.9	5116.2	5899.1	6302.2	6269.3
22.5°	3310.0	3333.3	3346.8	3408.9	3608.5	4108.5	5003.8	6085.2	6709.2	6713.1
25°	3529.0	3552.3	3536.8	3575.5	3662.7	4054.2	4961.2	6304.2	7220.8	7263.5
27.5°	3889.5	3891.4	3854.6	3852.7	3866.2	4135.6	5005.7	6538.7	7866.2	7945.6
30°	4612.3	4583.3	4441.8	4288.7	4218.9	4379.8	5129.8	6815.8	8627.8	8769.2
32.5°	5726.7	5684.0	5424.3	5058.1	4689.9	4773.2	5352.6	7131.7	9457.2	9713.0
35°	6935.9	6924.3	6653.0	6108.4	5465.0	5333.3	5715.0	7546.4	10362.2	10769.2
37.5°	8060.0	8054.1	7899.1	7257.6	6474.7	6114.3	6296.4	8089.0	11331.2	11920.4
40°	9087.1	9104.5	8949.5	8375.8	7587.1	7116.2	7087.1	8759.6	12408.7	13174.2
42.5°	9974.7	9994.0	9837.1	9412.7	8685.9	8224.7	8058.0	9581.3	13461.0	14521.1
45°	10577.4	10697.5	10674.3	10335.1	9813.8	9335.1	9224.7	10612.2	14660.6	15949.4
47.5°	10747.9	10858.4	11032.8	11079.3	10761.5	10290.5	10422.3	11854.5	15873.8	17379.6
50°	10327.4	10430.1	10792.5	11275.0	11496.0	11350.6	11587.0	13185.9	17116.0	18805.9
52.5°	9497.9	9602.6	10059.9	10823.5	11724.6	12182.0	12755.6	14497.8	18319.5	20156.7
55°	8298.3	8408.8	8996.0	9860.3	11288.6	12525.0	13730.4	15807.9	19422.2	21371.8
57.5°	6666.6	6748.0	7358.4	8567.7	10191.7	12183.9	14449.4	17238.1	20460.9	22565.6
60°	4344.9	4416.6	5125.9	6474.7	8373.9	11044.4	14592.8	18833.1	21840.8	24117.9
62.5°	2889.5	2937.9	3358.5	4348.8	5897.2	8856.5	13753.7	20106.3	23864.0	26819.4
65°	1982.5	2031.0	2451.5	3141.4	3810.0	5858.4	11340.9	19937.7	25697.3	28964.7
67.5°	1414.7	1455.4	1812.0	2463.1	2757.7	3403.1	7687.9	17782.7	25433.7	29046.1
70°	1013.6	1036.8	1331.4	1918.6	2191.8	2044.5	4275.1	13600.6	22269.0	26821.3
72.5°	709.3	717.0	924.4	1461.2	1765.5	1492.2	2034.9	9067.7	16842.8	21052.0
75°	480.6	490.3	622.1	1071.7	1416.6	1139.5	1077.5	4862.3	9887.4	11652.9
77.5°	294.6	298.4	401.2	732.5	1060.1	868.2	693.8	2060.0	3825.5	3755.8
80°	166.7	166.7	255.8	455.4	722.9	560.1	486.4	876.0	1211.2	1063.9
82.5°	93.0	95.0	186.0	282.9	478.7	331.4	267.4	405.0	523.2	463.2
85°	38.8	42.6	114.3	133.7	228.7	164.7	108.5	170.5	193.8	172.5
87.5°	3.9	5.8	34.9	25.2	27.1	32.9	15.5	32.9	27.1	27.1
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°
4459.2	0°	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2	4459.2
4525.1	2.5°	4488.3	4459.2	4385.6	4300.3	4187.9	4133.7	4060.0	4009.6	3967.0	3970.9
4637.5	5°	4575.5	4501.9	4337.1	4131.7	3875.9	3693.7	3499.9	3366.2	3257.7	3234.4
4792.6	7.5°	4695.7	4579.4	4290.6	3920.5	3488.3	3160.8	2868.2	2680.2	2546.5	2503.8
4980.5	10°	4850.7	4682.1	4230.6	3655.0	3032.9	2616.2	2302.3	2155.0	2063.9	2032.9
5201.5	12.5°	5030.9	4800.3	4151.1	3331.3	2563.9	2162.8	1963.1	1889.5	1860.4	1850.7
5472.8	15°	5257.7	4947.6	4030.9	2947.6	2166.6	1885.6	1800.4	1790.7	1794.5	1790.7
5798.4	17.5°	5527.0	5108.5	3835.2	2552.3	1899.2	1744.2	1713.2	1720.9	1730.6	1728.7
6162.7	20°	5821.6	5267.4	3585.2	2201.5	1717.0	1643.4	1625.9	1633.7	1641.4	1637.6
6583.2	22.5°	6156.9	5437.9	3308.1	1928.3	1594.9	1550.4	1531.0	1532.9	1532.9	1525.2
7116.2	25°	6558.0	5625.9	3017.4	1734.5	1501.9	1467.0	1443.8	1436.0	1424.4	1401.1
7763.5	27.5°	7036.7	5825.5	2738.3	1598.8	1428.3	1395.3	1368.2	1348.8	1319.7	1281.0
8540.6	30°	7575.5	6067.7	2501.9	1513.5	1370.1	1337.2	1306.2	1277.1	1234.5	1186.0
9434.0	32.5°	8209.2	6327.4	2329.4	1457.3	1317.8	1282.9	1246.1	1211.2	1164.7	1116.3
10437.8	35°	8965.0	6641.4	2228.6	1418.6	1277.1	1230.6	1189.9	1151.1	1116.3	1073.6
11528.9	37.5°	9784.7	6974.7	2197.6	1399.2	1250.0	1178.3	1131.8	1104.6	1100.8	1075.6
12709.1	40°	10682.0	7370.0	2220.9	1387.6	1220.9	1127.9	1077.5	1071.7	1081.4	1036.8
13970.7	42.5°	11631.6	7839.0	2259.7	1374.0	1180.2	1077.5	1029.1	1029.1	1021.3	959.3
15304.0	45°	12658.7	8379.7	2298.4	1341.1	1131.8	1027.1	990.3	976.7	943.8	883.7
16645.1	47.5°	13693.6	8930.1	2327.5	1281.0	1073.6	984.5	951.5	920.5	872.1	817.8
17961.0	50°	14676.1	9424.3	2296.5	1191.8	1007.7	943.8	908.9	866.3	813.9	777.1
19207.1	52.5°	15554.0	9852.6	2164.7	1087.2	938.0	901.1	870.1	825.6	782.9	744.2
20331.1	55°	16317.6	10199.5	1932.1	988.4	876.0	864.3	833.3	777.1	719.0	686.0
21445.4	57.5°	17050.1	10463.0	1641.4	907.0	819.8	823.6	777.1	726.7	672.5	637.6
22947.3	60°	18024.9	10815.7	1346.9	831.4	759.7	771.3	720.9	684.1	616.3	571.7
25522.9	62.5°	19583.0	11364.2	1069.8	738.4	689.9	693.8	672.5	627.9	546.5	494.2
27431.8	65°	20819.5	11162.6	843.0	637.6	610.5	616.3	616.3	567.8	480.6	420.5
27534.5	67.5°	20679.9	9558.0	672.5	538.8	534.9	538.8	552.3	511.6	426.4	377.9
25437.6	70°	19050.1	7602.6	538.8	447.7	465.1	455.4	494.2	467.0	383.7	335.3
19720.6	72.5°	15544.3	5476.7	410.8	370.1	356.6	372.1	445.7	420.5	319.8	265.5
10445.6	75°	9083.2	2922.4	306.2	292.6	257.7	310.1	395.3	358.5	244.2	195.7
3201.5	77.5°	2957.3	1019.4	224.8	215.1	191.9	250.0	337.2	302.3	199.6	155.0
938.0	80°	792.6	308.1	153.1	141.5	124.0	186.0	267.4	240.3	143.4	100.8
403.1	82.5°	317.8	129.8	89.1	79.5	67.8	127.9	211.2	193.8	106.6	64.0
126.0	85°	102.7	42.6	32.9	25.2	31.0	79.5	126.0	131.8	75.6	32.9
19.4	87.5°	13.6	5.8	5.8	7.8	5.8	13.6	38.8	36.8	21.3	3.9
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>
4459.2
3932.1
3182.1
2461.2
2009.7
1844.9
1788.7
1724.8
1635.6
1521.3
1397.3
1277.1
1182.2
1118.2
1069.8
1073.6
1038.7
959.3
881.8
815.9
771.3
740.3
682.2
633.7
565.9
490.3
414.7
370.1
329.5
259.7
189.9
149.2
98.8
64.0
25.2
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