

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: P944647

Luminaire Tested: **GALN-SB9C-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49463 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

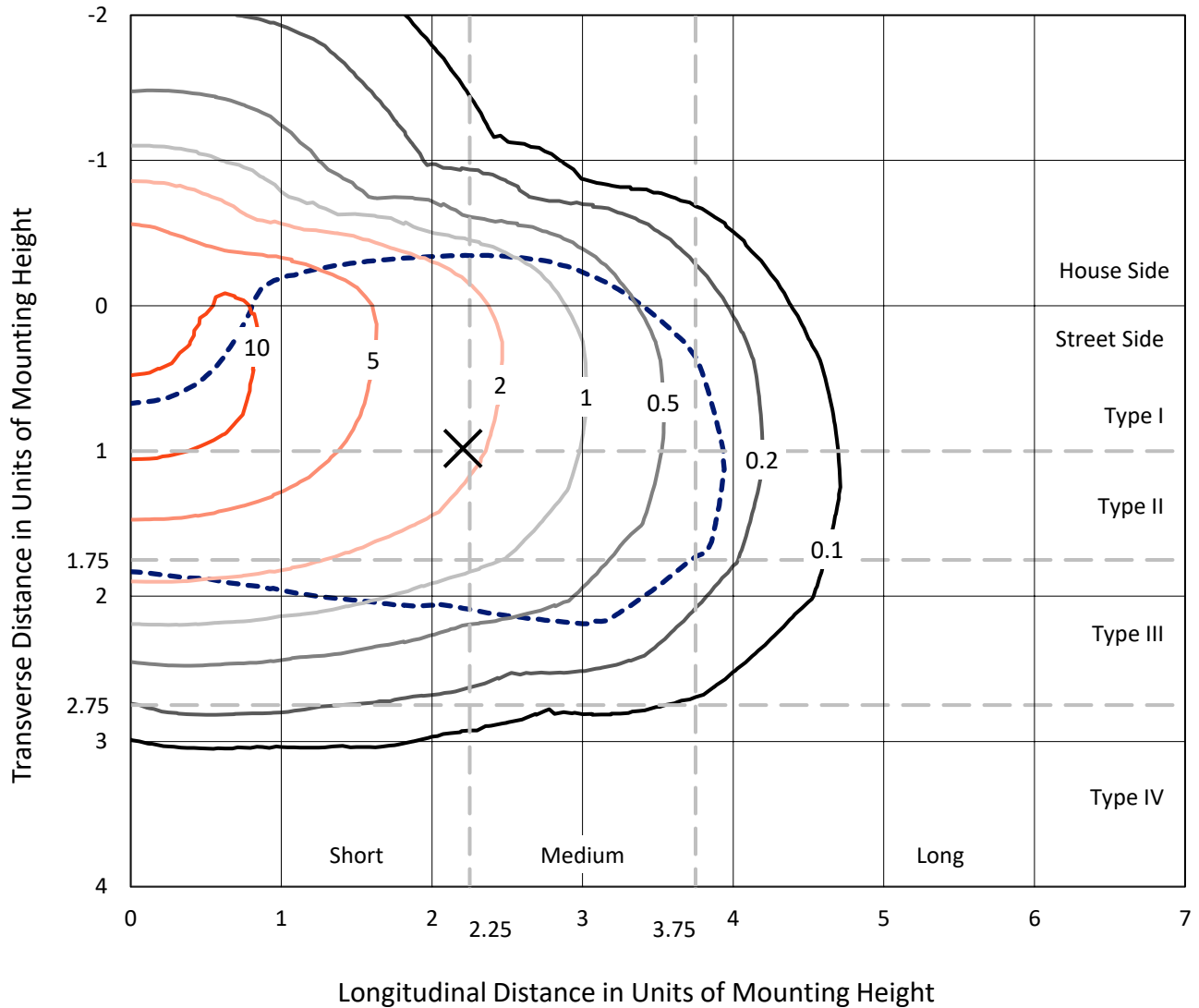
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

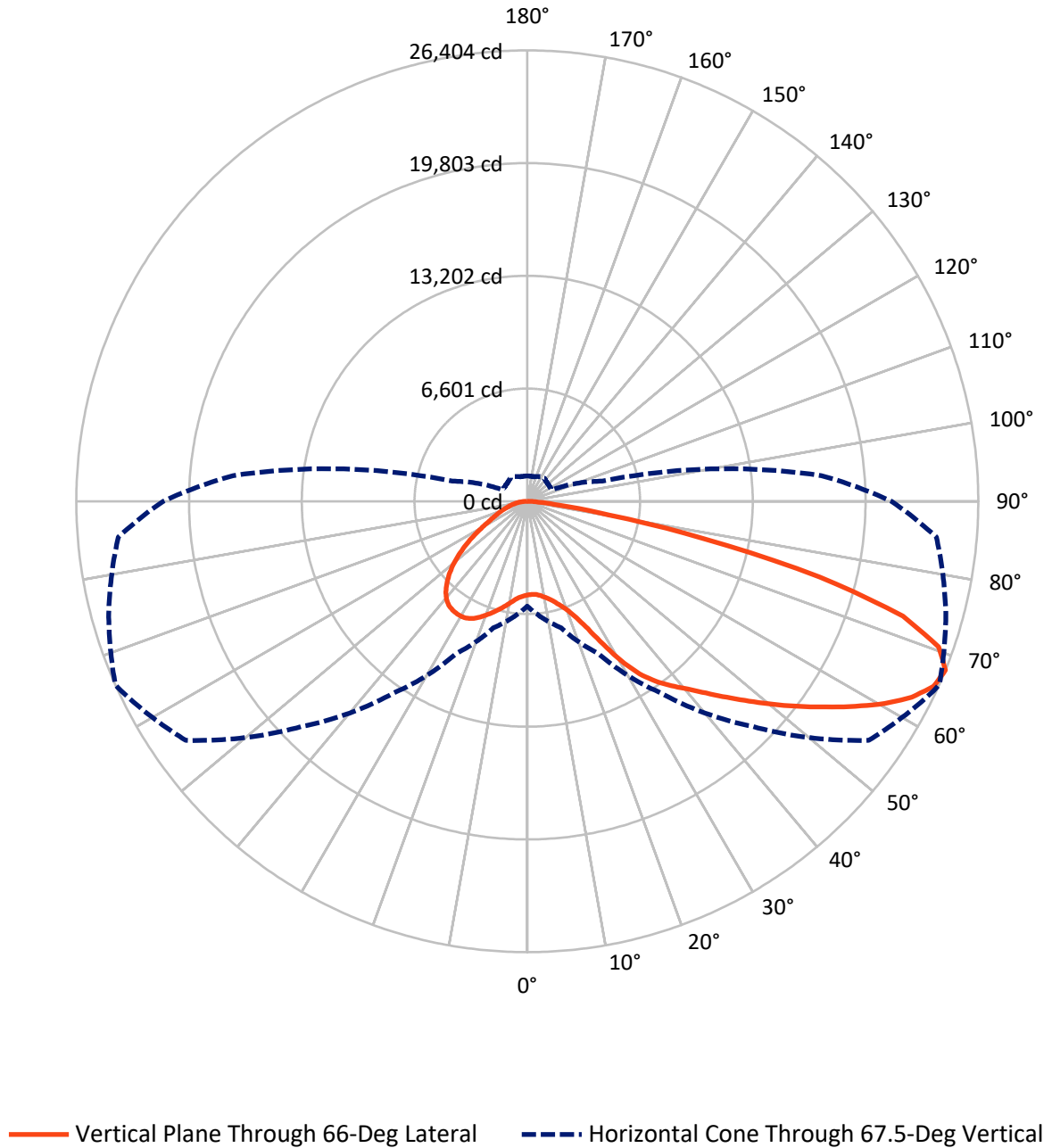
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12298.8	0.0	12298.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	37164.2	0.0	37164.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	49463.0	0.0	49463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.9	1.1
10°-20°	1797.1	3.6
20°-30°	3463.7	7.0
30°-40°	6073.2	12.3
40°-50°	9028.8	18.3
50°-60°	11444.9	23.1
60°-70°	11198.6	22.6
70°-80°	5341.8	10.8
80°-90°	570.9	1.2
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°	49463.0	100.0
0°-180°	49463.0	100.0

Coefficient of Utilization



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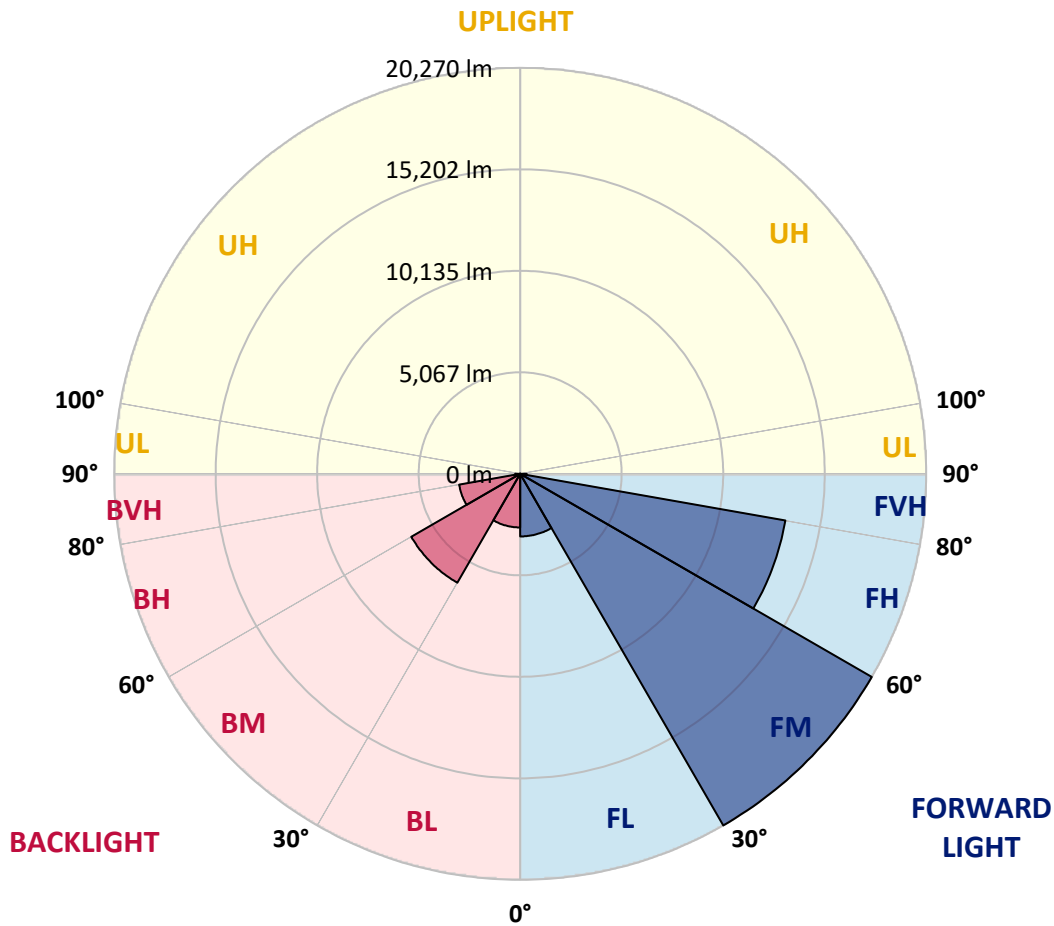
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3125.6	6.3			
FM (30°-60°)	20269.5	41.0			
FH (60°-80°)	13445.4	27.2			G5
FVH (80°-90°)	323.7	0.7			G3/500
BL (0°-30°)	2679.1	5.4	B4/5000		
BM (30°-60°)	6277.5	12.7	B4/8500		
BH (60°-80°)	3095.0	6.3	B4/5000		G4/5000
BVH (80°-90°)	247.2	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1
2.5°	5428.9	5460.1	5452.3	5439.3	5436.7	5441.9	5449.7	5457.5	5454.9	5467.9
5°	5413.3	5444.5	5441.9	5441.9	5452.3	5473.1	5486.1	5499.1	5486.1	5501.7
7.5°	5423.7	5447.1	5457.5	5467.9	5493.9	5532.9	5564.1	5592.7	5577.1	5595.3
10°	5556.3	5574.5	5584.9	5584.9	5603.0	5647.2	5678.4	5730.4	5717.4	5746.0
12.5°	5798.0	5816.1	5816.1	5805.8	5818.7	5847.3	5857.7	5914.9	5891.5	5938.3
15°	6094.2	6130.6	6102.0	6083.8	6089.0	6117.6	6115.0	6159.2	6135.8	6174.8
17.5°	6421.7	6468.5	6421.7	6419.1	6408.7	6439.9	6442.5	6481.4	6439.9	6468.5
20°	6808.9	6873.9	6834.9	6847.9	6824.5	6837.5	6850.5	6907.7	6842.7	6863.5
22.5°	7354.6	7432.6	7391.0	7440.4	7424.8	7414.4	7411.8	7513.2	7411.8	7419.6
25°	8149.9	8243.4	8170.7	8238.2	8238.2	8272.0	8311.0	8441.0	8272.0	8222.7
27.5°	9324.6	9418.1	9275.2	9316.8	9303.8	9386.9	9345.3	9667.6	9485.7	9405.1
30°	10738.3	10904.6	10634.4	10624.0	10611.0	10743.5	10803.3	11016.4	10831.9	10751.3
32.5°	12266.4	12440.5	12118.3	12024.7	11975.3	12055.9	12006.5	12178.1	12050.7	11926.0
35°	13882.9	14054.4	13747.7	13565.8	13368.3	13199.4	13022.7	13066.8	12947.3	12757.6
37.5°	15411.0	15725.4	15400.6	15205.7	14841.8	14511.8	14018.0	13812.7	13701.0	13526.8
40°	16967.7	17147.0	16900.1	16733.8	16338.8	15821.6	15031.6	14597.5	14446.8	14277.9
42.5°	18113.7	18285.3	18152.7	18038.4	17729.1	17128.8	16107.5	15564.3	15346.0	15156.3
45°	19023.3	19150.7	19067.5	19109.1	18976.6	18394.4	17222.4	16601.2	16375.1	16143.8
47.5°	19389.8	19524.9	19657.4	19904.3	20130.4	19701.6	18420.4	17723.9	17484.8	17248.3
50°	19348.2	19485.9	19870.5	20395.5	21097.2	20954.3	19683.4	18919.4	18698.5	18428.2
52.5°	19015.5	19171.5	19665.2	20538.4	21655.9	21892.4	20969.8	20153.8	19945.9	19623.7
55°	18142.3	18235.9	18976.6	20213.6	21788.5	22547.3	22230.3	21468.8	21260.9	20811.3
57.5°	16523.3	16658.4	17736.9	19337.8	21455.8	22991.7	23337.4	22851.4	22651.3	22004.2
60°	14410.4	14626.1	15860.6	17866.9	20608.6	22989.1	24343.1	24210.6	24044.2	23178.8
62.5°	12019.5	12269.0	13456.7	15787.8	19127.3	22336.8	24972.0	25348.9	25263.1	24262.5
65°	9231.0	9402.5	10585.0	13098.0	16822.1	20936.1	25044.8	26125.9	26141.5	25086.4
67.5°	6146.2	6640.0	7666.5	9828.7	13734.7	18646.5	24405.5	26253.2	26404.0	25369.6
70°	2999.0	3648.7	4654.5	6387.9	9828.7	15135.5	22734.4	25208.5	25543.8	24543.2
72.5°	1244.8	1455.3	2003.7	3152.4	5642.0	10213.3	19376.8	22375.8	22996.9	21746.9
75°	839.4	909.6	1146.1	1616.5	2570.2	5036.5	13973.8	16684.4	17684.9	16424.5
77.5°	647.1	691.3	834.2	1130.5	1528.1	1904.9	7479.4	10054.8	10572.0	9787.1
80°	509.4	543.2	623.7	823.8	1083.7	1018.7	2549.4	4555.7	4854.6	4072.3
82.5°	441.8	454.8	447.0	558.7	719.9	595.1	836.8	1681.4	1855.6	1346.2
85°	319.7	356.0	371.6	345.6	382.0	301.5	343.0	595.1	654.9	584.7
87.5°	129.9	192.3	236.5	223.5	140.3	85.8	106.6	174.1	200.1	218.3
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°
5486.1	0°	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1
5488.7	2.5°	5491.3	5509.5	5522.5	5538.1	5548.5	5564.1	5595.3	5613.4	5616.0	5629.0
5530.3	5°	5540.7	5566.7	5595.3	5636.8	5683.6	5722.6	5782.4	5823.9	5839.5	5852.5
5631.6	7.5°	5647.2	5683.6	5735.6	5808.4	5875.9	5927.9	6000.7	6050.0	6099.4	6117.6
5792.8	10°	5805.8	5857.7	5933.1	6031.9	6104.6	6172.2	6247.6	6289.1	6338.5	6359.3
5985.1	12.5°	6003.3	6057.8	6156.6	6294.3	6361.9	6408.7	6434.7	6424.3	6434.7	6452.9
6216.4	15°	6229.4	6289.1	6400.9	6549.0	6595.8	6554.2	6497.0	6445.1	6437.3	6442.5
6497.0	17.5°	6497.0	6541.2	6671.2	6795.9	6762.1	6590.6	6465.9	6382.7	6341.1	6328.1
6855.7	20°	6871.3	6871.3	6977.8	7055.8	6829.7	6538.6	6343.7	6208.6	6122.8	6086.4
7344.3	22.5°	7326.1	7284.5	7352.1	7297.5	6816.7	6393.1	6122.8	5888.9	5759.0	5707.0
8027.7	25°	7903.0	7853.6	7835.4	7497.6	6723.1	6161.8	5722.6	5439.3	5325.0	5296.4
9012.7	27.5°	8773.6	8648.9	8412.4	7606.7	6551.6	5798.0	5254.8	4992.3	4927.4	4930.0
10278.3	30°	9932.7	9683.2	9103.7	7624.9	6270.9	5283.4	4776.6	4589.5	4558.3	4571.3
11341.2	32.5°	11006.0	10769.5	9810.5	7541.8	5839.5	4779.2	4347.8	4223.1	4176.3	4191.9
12152.1	35°	11848.0	11783.0	10465.4	7424.8	5309.4	4306.2	3963.2	3856.6	3765.7	3744.9
12916.1	37.5°	12643.2	12617.3	10956.6	7261.1	4784.4	3971.0	3653.9	3513.6	3381.1	3308.3
13760.7	40°	13516.4	13490.5	11278.9	7009.0	4319.2	3679.9	3375.9	3191.3	3027.6	2895.1
14717.1	42.5°	14498.8	14345.5	11432.2	6647.8	3924.2	3433.0	3149.8	2900.3	2684.6	2562.4
15798.2	45°	15572.1	15226.5	11429.6	6187.8	3591.6	3206.9	2908.1	2554.6	2354.5	2240.2
16907.9	47.5°	16710.4	16068.5	11289.3	5678.4	3269.3	2957.5	2533.8	2263.6	2131.0	2060.9
18113.7	50°	17885.1	16855.9	11050.2	5093.7	2939.3	2674.2	2300.0	2115.4	2014.1	1949.1
19309.2	52.5°	18989.5	17570.6	10761.7	4431.0	2604.0	2398.7	2196.0	2053.1	1946.5	1873.7
20468.3	55°	20016.1	18186.5	10353.7	3752.7	2331.1	2214.2	2146.6	2027.1	1904.9	1819.2
21645.5	57.5°	20928.3	18586.7	9649.4	3116.0	2136.2	2086.8	2094.6	1982.9	1842.6	1769.8
22804.6	60°	21687.1	18880.4	8607.3	2526.0	1977.7	1962.1	2014.1	1899.7	1736.0	1652.8
23784.4	62.5°	22141.9	18875.2	7328.7	2068.7	1842.6	1847.8	1907.5	1795.8	1629.5	1551.5
24296.3	65°	22102.9	18412.6	5925.3	1769.8	1712.6	1717.8	1795.8	1681.4	1541.1	1494.3
24039.0	67.5°	21320.7	17284.7	4545.3	1574.9	1569.7	1593.1	1684.0	1603.5	1486.5	1481.3
22505.7	70°	19202.7	14943.2	3274.5	1419.0	1421.6	1455.3	1574.9	1554.1	1457.9	1468.3
18922.0	72.5°	15398.0	11393.2	2198.6	1255.2	1257.8	1312.4	1470.9	1515.1	1429.3	1567.1
13425.5	75°	10254.9	7105.2	1413.8	1081.1	1083.7	1153.9	1380.0	1439.7	1351.4	1561.9
6985.6	77.5°	4927.4	3193.9	1023.9	909.6	909.6	974.6	1192.9	1289.0	1151.3	1213.6
2245.4	80°	1702.2	1200.7	805.6	732.9	717.3	761.5	1005.7	1117.5	992.7	914.8
732.9	82.5°	670.5	623.7	647.1	569.1	517.2	545.8	782.2	922.6	730.3	660.1
413.2	85°	384.6	405.4	457.4	376.8	298.9	335.2	574.3	662.7	550.9	486.0
135.1	87.5°	104.0	142.9	210.5	194.9	135.1	142.9	272.9	366.4	317.1	244.3
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>
5486.1
5626.4
5849.9
6120.2
6369.7
6458.1
6460.7
6346.3
6078.6
5699.2
5301.6
4937.8
4615.5
4212.7
3760.5
3310.9
2908.1
2570.2
2235.0
2045.3
1925.7
1842.6
1785.4
1723.0
1616.5
1528.1
1491.7
<i>1489.1</i>
1465.7
1587.9
1574.9
1112.3
857.6
657.5
496.4
252.1
0.0

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