

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: P951606

Luminaire Tested: **GALN-SB5C-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26805 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

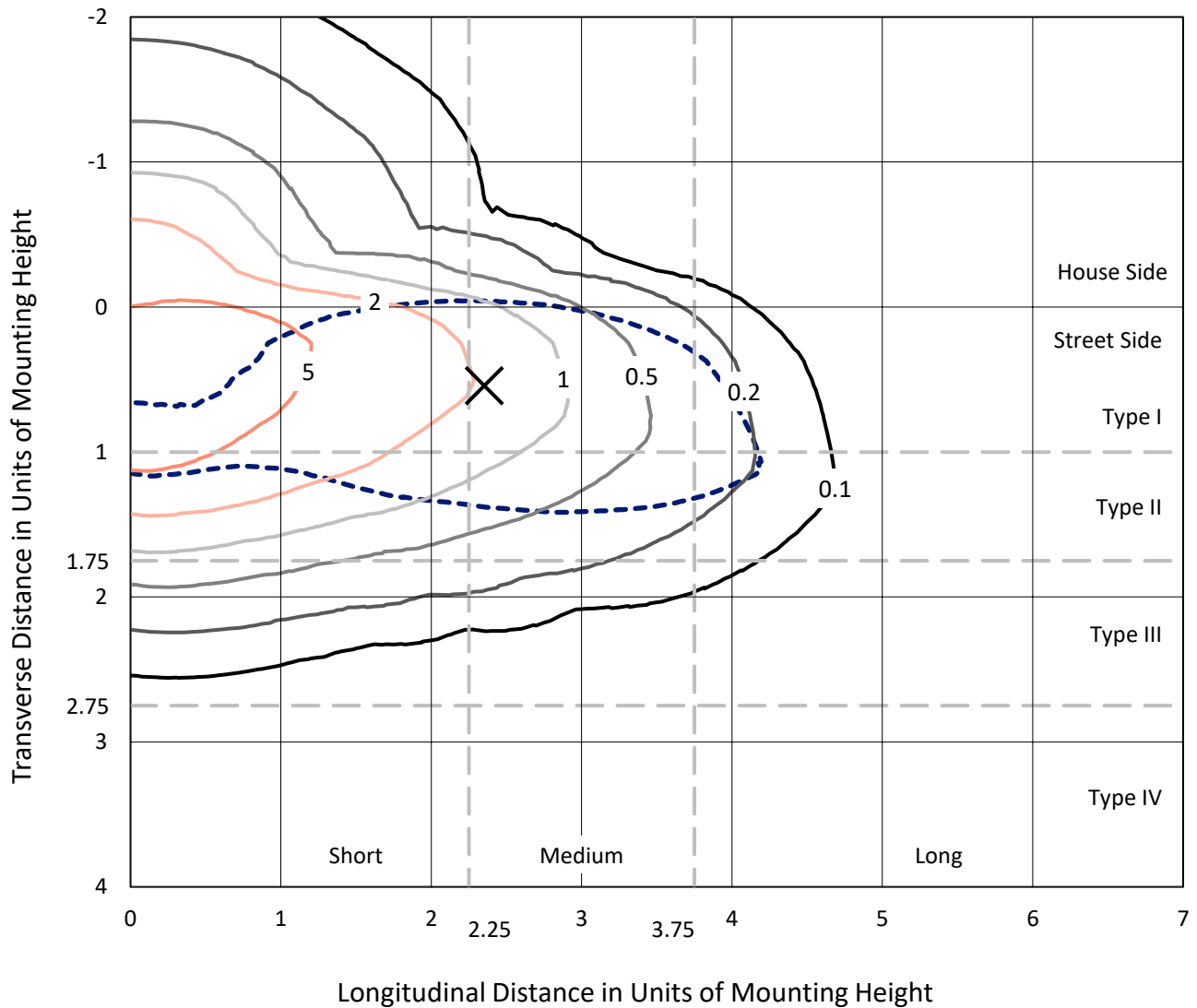
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

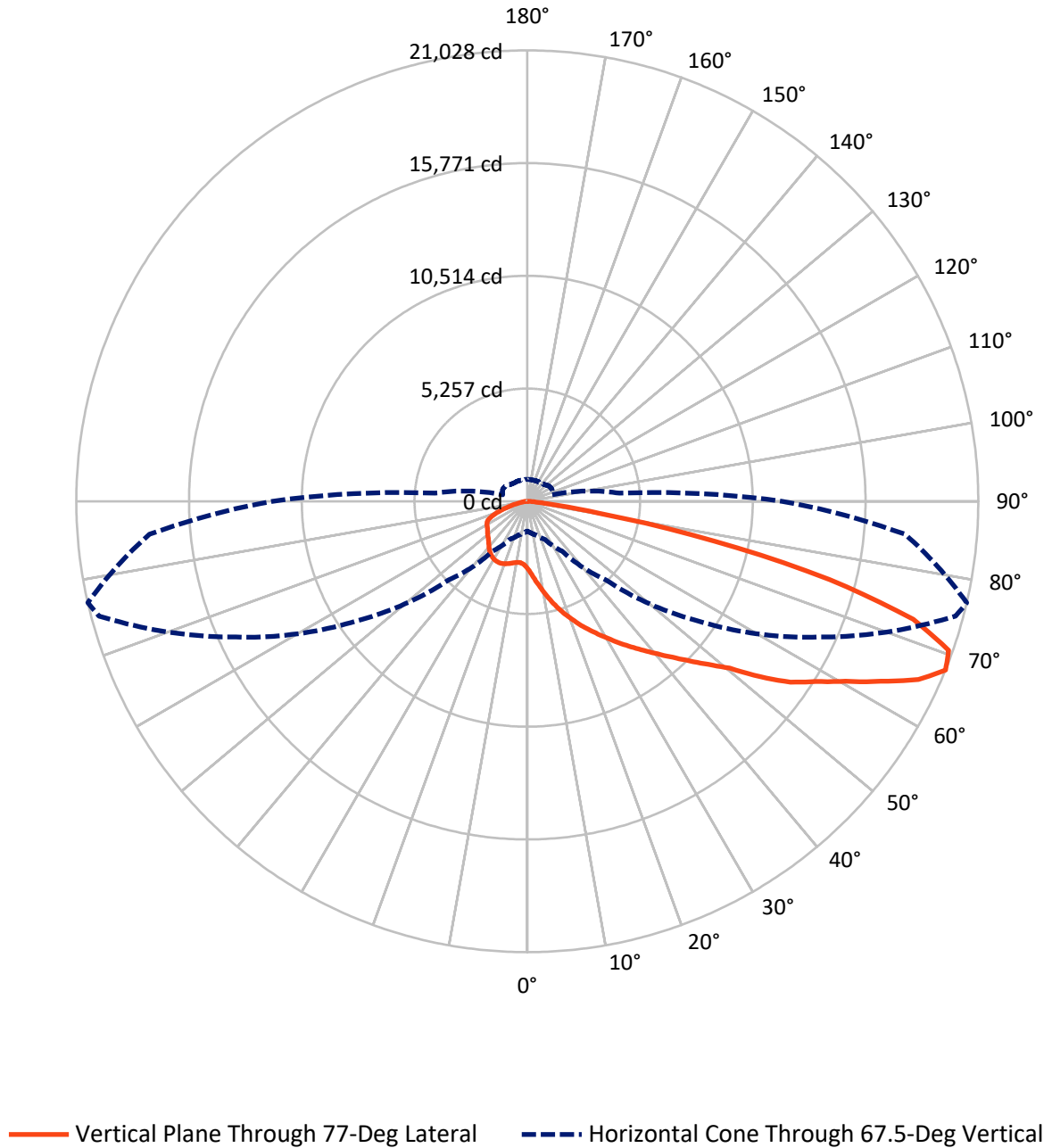
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	5070.4	0.0	5070.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	21734.6	0.0	21734.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	26805.0	0.0	26805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.1	1.3
10°-20°	1211.1	4.5
20°-30°	2286.7	8.5
30°-40°	3683.8	13.7
40°-50°	5038.7	18.8
50°-60°	5683.7	21.2
60°-70°	5305.0	19.8
70°-80°	2908.1	10.8
80°-90°	350.8	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°	26805.0	100.0
0°-180°	26805.0	100.0

Coefficient of Utilization



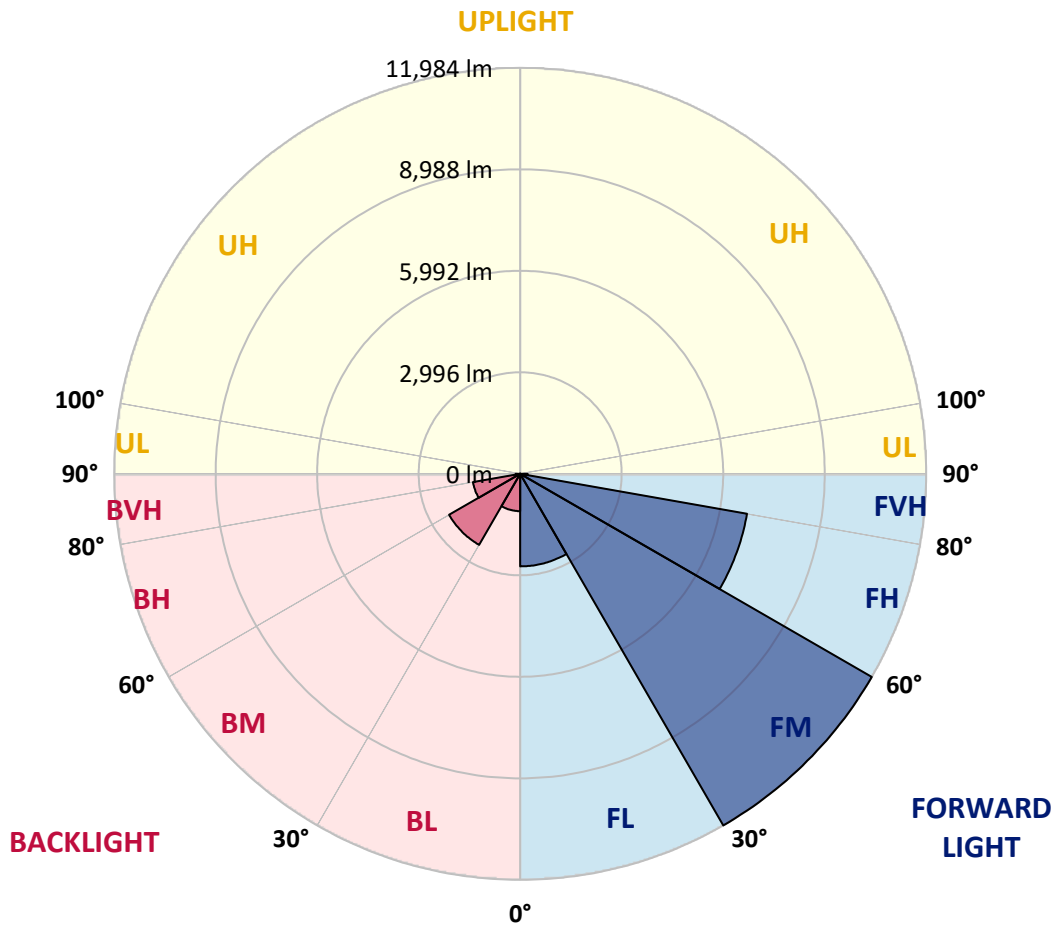
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.4	10.2			
FM (30°-60°)	11984.2	44.7			
FH (60°-80°)	6798.5	25.4			G3/7500
FVH (80°-90°)	219.4	0.8			G2/225
BL (0°-30°)	1102.4	4.1	B3/2500		
BM (30°-60°)	2422.0	9.0	B2/2500		
BH (60°-80°)	1414.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	131.4	0.5			G2/225
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°	77°
0°	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1
2.5°	3937.9	3965.6	3931.0	3931.0	3814.8	3753.9	3637.6	3549.1	3390.0	3362.3
5°	4654.6	4689.2	4640.8	4620.0	4483.1	4357.1	4162.0	3969.7	3686.1	3657.0
7.5°	5209.5	5253.8	5210.9	5188.7	5067.0	4925.8	4697.5	4429.1	4029.2	3972.5
10°	5661.9	5668.9	5655.0	5663.3	5567.8	5451.6	5217.8	4905.1	4405.6	4328.1
12.5°	5917.9	5949.7	5977.4	6027.2	6010.6	5938.7	5728.4	5354.8	4804.1	4704.4
15°	6038.3	6093.6	6155.9	6270.7	6363.5	6381.4	6220.9	5837.7	5209.5	5089.1
17.5°	6081.2	6133.8	6232.0	6398.0	6597.3	6731.5	6659.6	6306.7	5610.7	5472.4
20°	6298.4	6313.6	6373.1	6530.9	6746.7	6969.5	7023.5	6757.8	6007.9	5851.5
22.5°	6763.3	6732.9	6749.5	6821.4	6976.4	7192.3	7315.4	7156.3	6416.0	6236.2
25°	7531.3	7442.7	7354.2	7271.1	7350.0	7471.8	7611.5	7554.8	6843.6	6615.3
27.5°	8501.2	8393.3	8198.2	7925.6	7830.1	7873.0	7935.3	7924.2	7239.3	7008.2
30°	9455.9	9330.0	9097.6	8703.2	8451.4	8337.9	8290.9	8259.1	7669.6	7423.3
32.5°	10218.3	10118.7	9890.4	9449.0	9083.7	8890.0	8733.7	8620.2	8119.3	7873.0
35°	10885.3	10792.5	10531.0	10049.5	9652.4	9446.2	9241.5	8999.3	8587.0	8337.9
37.5°	11494.1	11401.4	11043.0	10542.1	10142.2	9999.7	9817.1	9406.1	9056.1	8820.8
40°	11878.7	11858.0	11523.1	10955.8	10540.7	10470.2	10409.3	9877.9	9576.3	9357.7
42.5°	11977.0	12022.6	11757.0	11290.7	10894.9	10838.2	10980.7	10412.0	10160.2	9951.3
45°	11740.4	11871.8	11697.5	11380.6	11146.8	11116.3	11487.1	10995.9	10806.4	10615.4
47.5°	11141.2	11364.0	11292.0	11247.8	11214.6	11346.0	11932.7	11615.8	11538.3	11372.3
50°	9931.9	10353.9	10479.8	10759.3	11080.3	11524.5	12338.1	12292.4	12393.4	12226.0
52.5°	7841.2	8422.3	9152.9	9853.0	10668.0	11465.0	12783.6	13263.8	13689.9	13598.6
55°	6472.8	6734.3	7296.0	8580.1	9868.3	11214.6	12984.3	14048.3	14976.7	14895.1
57.5°	5421.2	5655.0	6000.9	7073.3	8658.9	10645.9	13108.8	14527.0	15858.1	15849.8
60°	4293.5	4541.2	4895.4	5655.0	7246.2	9663.5	13081.1	15072.2	16983.0	17052.2
62.5°	3020.5	3293.1	3686.1	4394.5	5803.1	8390.5	12516.6	15466.6	18307.2	18495.4
65°	1985.6	2165.4	2461.5	3073.1	4323.9	6753.6	11438.7	15517.7	19724.1	20042.3
67.5°	1392.0	1461.1	1635.5	1967.6	2850.3	5179.0	9721.6	14987.8	20669.1	21027.5
70°	1086.2	1120.8	1209.3	1342.2	1790.5	3482.7	7449.6	13609.7	20467.1	20840.7
72.5°	938.1	971.3	1004.5	1021.1	1201.0	2150.2	5046.2	11379.2	18564.6	18817.8
75°	851.0	859.3	886.9	881.4	916.0	1394.7	2912.6	8290.9	14647.4	14560.3
77.5°	715.4	726.4	772.1	765.2	813.6	953.3	1512.3	5350.6	9496.1	8903.9
80°	606.0	611.6	661.4	653.1	707.1	690.4	772.1	2727.2	4027.8	3412.1
82.5°	210.3	260.1	505.0	520.3	539.6	417.9	445.5	1112.5	1230.1	942.3
85°	102.4	109.3	257.4	365.3	363.9	210.3	217.2	397.1	387.4	304.4
87.5°	16.6	20.8	30.4	142.5	113.5	55.3	74.7	77.5	80.3	69.2
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°
3145.1	0°	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1
3257.1	2.5°	3179.7	3110.5	2965.2	2831.0	2725.8	2624.8	2568.1	2519.6	2492.0	2486.4
3409.3	5°	3265.4	3122.9	2858.6	2635.9	2490.6	2382.7	2325.9	2290.0	2272.0	2260.9
3614.1	7.5°	3388.6	3179.7	2803.3	2550.1	2397.9	2320.4	2291.3	2285.8	2284.4	2285.8
3861.8	10°	3558.8	3272.4	2797.8	2529.3	2402.0	2359.1	2357.8	2359.1	2364.7	2366.1
4131.6	12.5°	3742.8	3367.8	2819.9	2547.3	2454.6	2431.1	2426.9	2425.6	2429.7	2432.5
4404.2	15°	3943.4	3493.7	2857.3	2586.1	2512.7	2487.8	2483.7	2475.4	2474.0	2472.6
4690.6	17.5°	4149.6	3618.3	2898.8	2627.6	2550.1	2515.5	2500.3	2480.9	2465.7	2461.5
4986.7	20°	4358.5	3741.4	2927.8	2648.3	2552.9	2504.4	2474.0	2440.8	2414.5	2399.3
5285.6	22.5°	4581.3	3870.1	2945.8	2642.8	2527.9	2461.5	2406.2	2367.4	2327.3	2301.0
5587.2	25°	4798.5	3982.2	2944.4	2613.7	2479.5	2395.1	2324.5	2274.7	2219.4	2191.7
5898.5	27.5°	5007.5	4083.2	2909.8	2562.5	2410.3	2316.2	2231.8	2172.3	2118.4	2092.1
6212.6	30°	5223.3	4167.6	2855.9	2487.8	2328.7	2224.9	2132.2	2081.0	2032.6	2007.7
6544.7	32.5°	5437.8	4245.1	2779.8	2395.1	2234.6	2135.0	2043.7	1996.6	1967.6	1967.6
6901.7	35°	5664.7	4299.0	2678.8	2287.2	2135.0	2039.5	1967.6	1939.9	1937.1	1920.5
7279.4	37.5°	5904.1	4333.6	2555.6	2176.5	2036.7	1946.8	1924.7	1891.5	1863.8	1827.8
7694.5	40°	6155.9	4368.2	2407.6	2061.7	1933.0	1883.2	1873.5	1829.2	1750.3	1661.8
8165.0	42.5°	6461.7	4391.7	2254.0	1946.8	1823.7	1807.1	1820.9	1744.8	1618.9	1552.5
8732.3	45°	6815.9	4430.5	2112.8	1833.3	1711.6	1711.6	1769.7	1670.1	1566.3	1524.8
9379.8	47.5°	7275.3	4520.4	1981.4	1708.8	1607.8	1635.5	1656.2	1580.1	1522.0	1470.8
10168.5	50°	7939.4	4736.3	1845.8	1582.9	1528.9	1584.3	1555.2	1511.0	1443.2	1401.6
11422.1	52.5°	8764.1	4863.6	1725.4	1469.4	1461.1	1516.5	1475.0	1433.5	1382.3	1326.9
12372.7	55°	9325.9	4887.1	1624.4	1386.4	1415.5	1409.9	1394.7	1357.4	1329.7	1256.4
13310.8	57.5°	9954.1	4934.1	1541.4	1336.6	1386.4	1325.5	1320.0	1288.2	1252.2	1202.4
14455.1	60°	10705.4	5007.5	1469.4	1317.2	1361.5	1270.2	1242.5	1230.1	1194.1	1169.2
15831.8	62.5°	11524.5	5073.9	1396.1	1320.0	1332.5	1216.2	1174.7	1170.6	1148.4	1140.1
17124.2	65°	12083.5	4892.6	1304.8	1317.2	1286.8	1160.9	1108.3	1106.9	1088.9	1086.2
17684.6	67.5°	11888.4	4318.4	1181.6	1278.5	1239.8	1105.5	1047.4	1041.9	1018.4	1019.8
17099.3	70°	10911.5	3499.3	1011.5	1183.0	1181.6	1055.7	983.8	965.8	934.0	939.5
14867.4	72.5°	9079.6	2593.0	783.2	1023.9	1088.9	1010.1	910.4	881.4	841.3	846.8
10975.2	75°	6557.2	1762.8	570.1	779.0	947.8	956.1	838.5	788.7	740.3	748.6
6108.9	77.5°	3355.4	999.0	419.2	536.9	744.4	868.9	773.5	707.1	696.0	773.5
1761.4	80°	1094.5	500.9	290.6	376.4	488.4	711.2	678.0	601.9	599.1	617.1
369.4	82.5°	326.5	211.7	186.8	247.7	269.8	545.2	585.3	455.2	391.6	412.3
123.1	85°	112.1	102.4	106.5	123.1	128.7	319.6	409.6	301.6	285.0	314.1
27.7	87.5°	26.3	36.0	30.4	27.7	27.7	77.5	159.1	125.9	174.3	116.2
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>
3145.1
2486.4
2259.5
2290.0
2367.4
2433.9
2471.2
2465.7
2404.8
2302.4
2191.7
2090.7
2006.3
1968.9
1916.4
1822.3
1649.3
1553.9
1531.7
1469.4
1397.5
1315.9
1257.7
1185.8
1176.1
1140.1
1084.8
<i>1019.8</i>
945.0
845.4
751.3
762.4
529.9
426.2
309.9
112.1
0.0

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