

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: P949941

Luminaire Tested: **GALN-SB4C-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-750-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31035 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

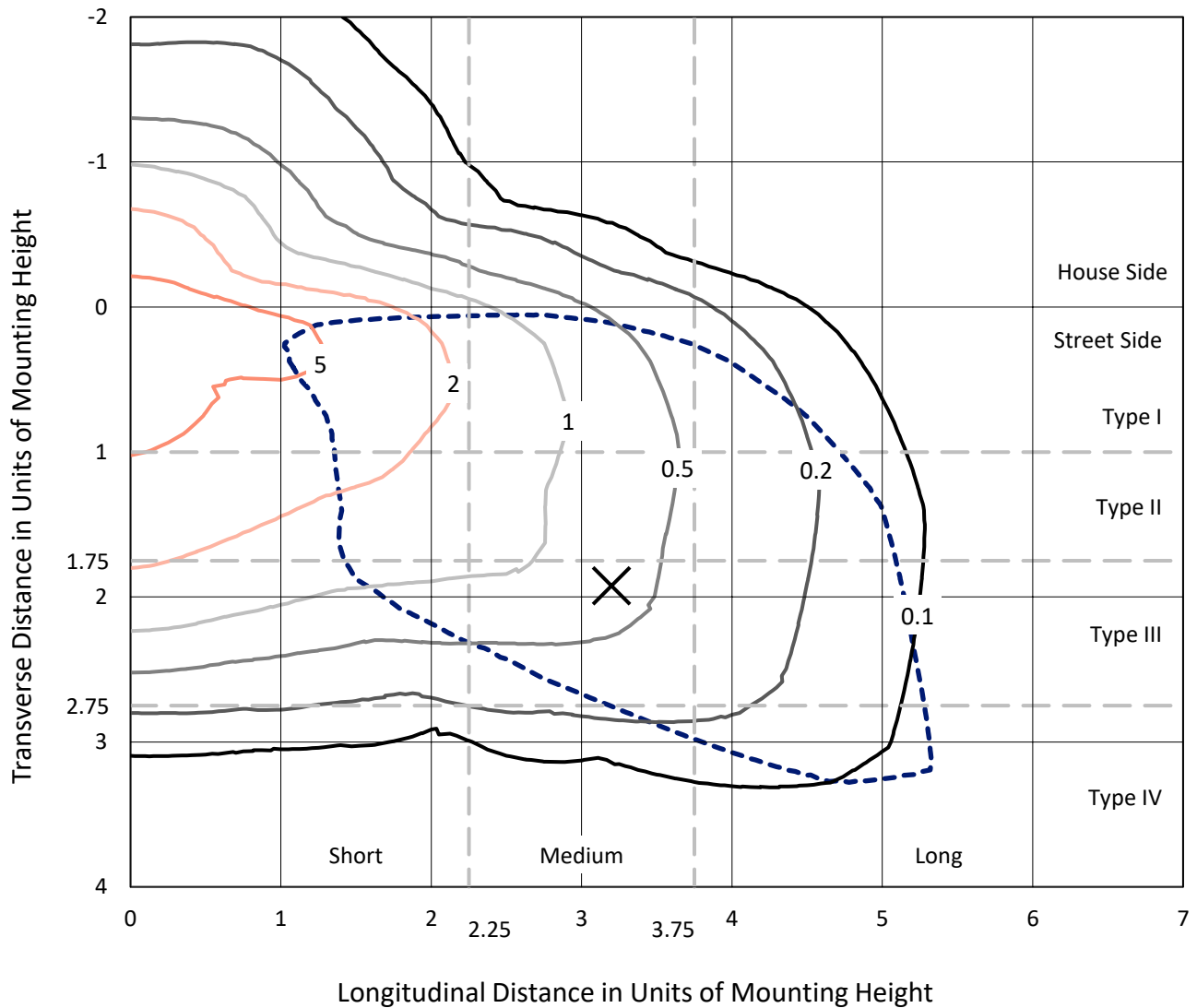
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

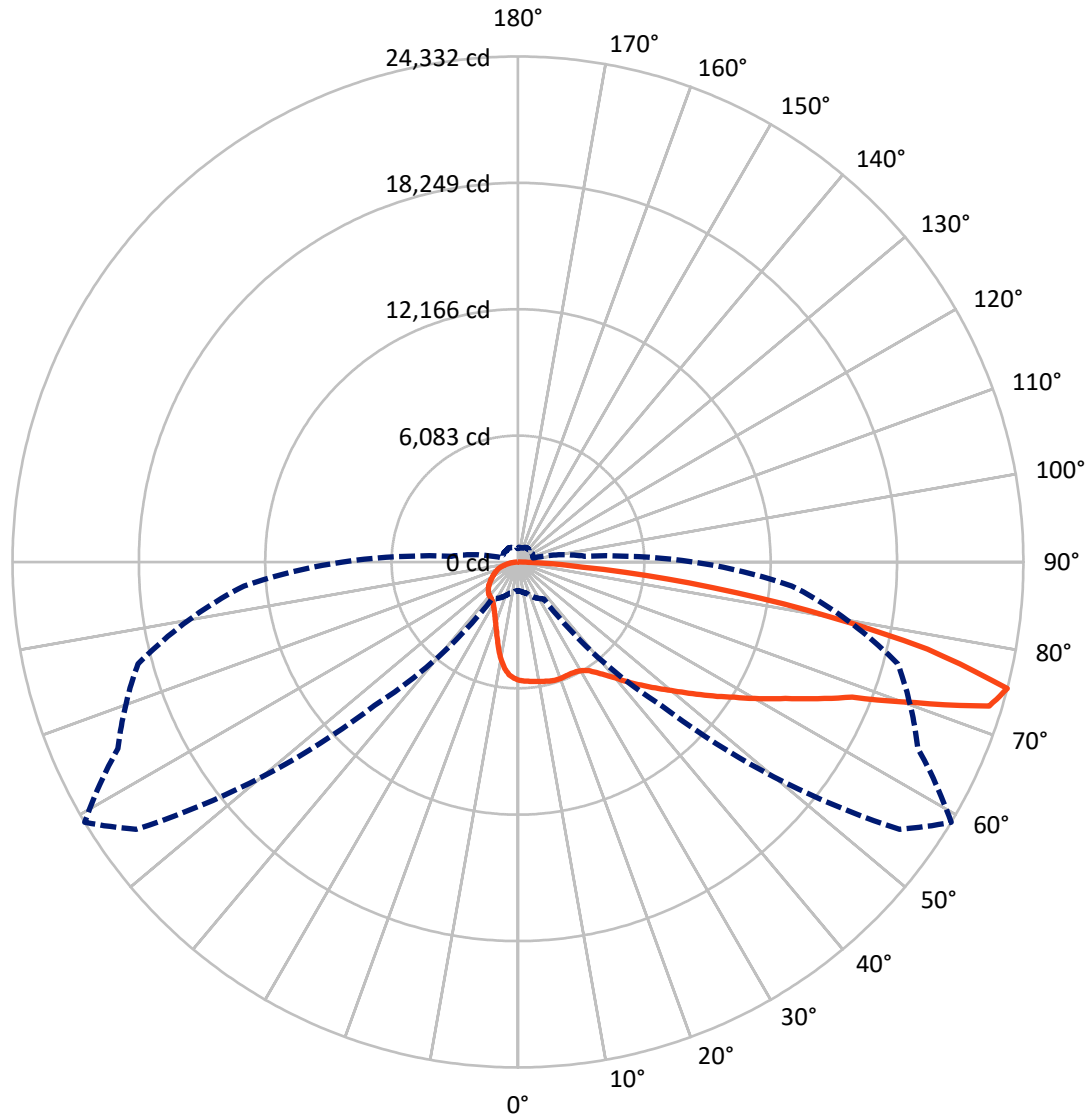
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5820.8	0.0	5820.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25214.2	0.0	25214.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	31035.0	0.0	31035.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.8	1.6
10°-20°	1305.6	4.2
20°-30°	1983.1	6.4
30°-40°	2947.8	9.5
40°-50°	4383.8	14.1
50°-60°	5950.5	19.2
60°-70°	7264.6	23.4
70°-80°	5701.2	18.4
80°-90°	987.6	3.2
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°	31035.0	100.0
0°-180°	31035.0	100.0



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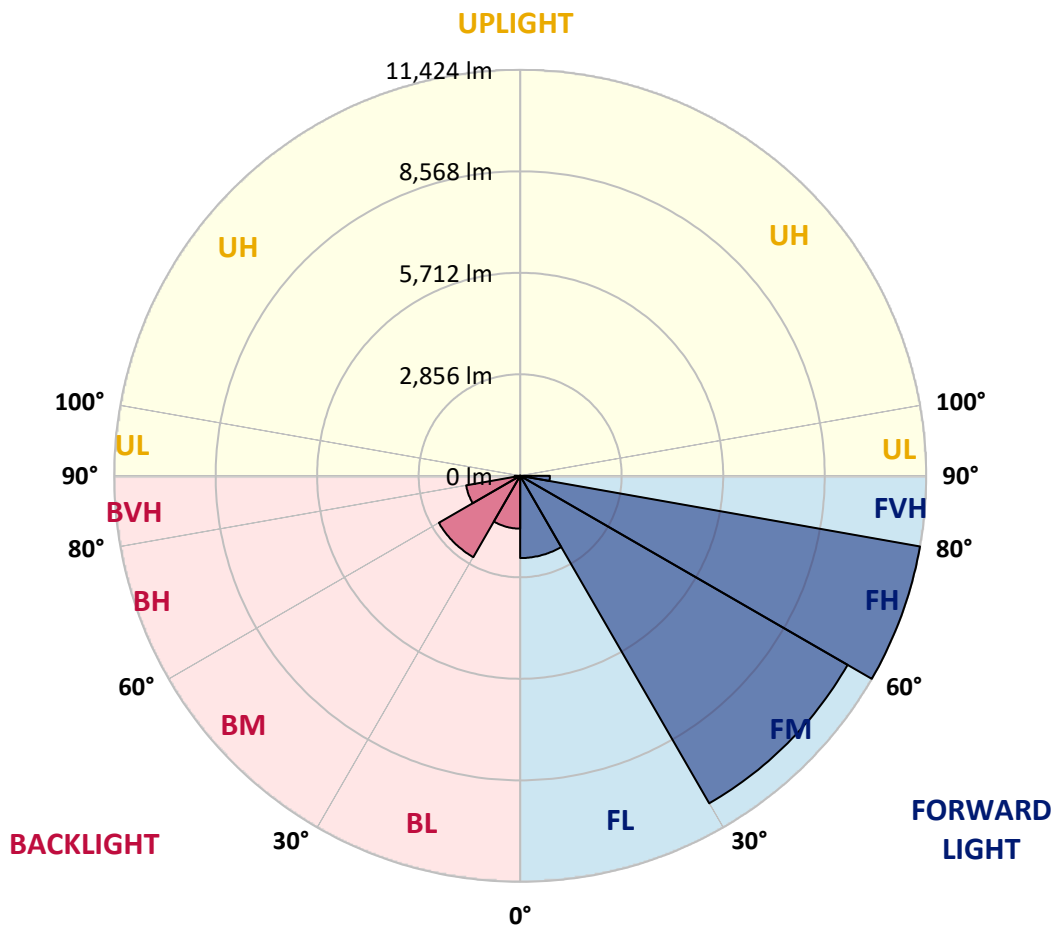
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.0	7.5			
FM (30°-60°)	10640.1	34.3			
FH (60°-80°)	11423.7	36.8			G4/12000
FVH (80°-90°)	836.4	2.7			G5
BL (0°-30°)	1485.4	4.8	B3/2500		
BM (30°-60°)	2642.1	8.5	B3/5000		
BH (60°-80°)	1542.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	151.2	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4
2.5°	5744.8	5724.8	5744.8	5736.5	5733.1	5726.5	5728.1	5739.8	5733.1	5741.5
5°	5706.4	5694.7	5714.8	5709.8	5731.5	5734.8	5756.5	5769.9	5778.2	5779.9
7.5°	5643.0	5631.3	5659.7	5683.0	5729.8	5743.2	5788.2	5809.9	5821.6	5841.7
10°	5410.9	5405.9	5476.0	5564.5	5674.7	5743.2	5811.6	5848.3	5866.7	5920.1
12.5°	5000.2	5006.9	5098.7	5269.0	5489.4	5709.8	5838.3	5891.7	5920.1	5986.9
15°	4607.9	4606.2	4706.4	4888.4	5197.2	5562.8	5851.7	5943.5	5991.9	6090.4
17.5°	4380.8	4374.1	4444.3	4582.8	4870.0	5337.5	5818.3	5971.9	6075.4	6198.9
20°	4339.1	4325.7	4362.5	4430.9	4634.6	5090.4	5731.5	5971.9	6142.2	6302.4
22.5°	4491.0	4469.3	4454.3	4445.9	4536.1	4886.7	5633.0	5951.8	6240.7	6451.0
25°	4796.5	4763.1	4686.3	4611.2	4584.5	4794.9	5546.1	5946.8	6387.6	6651.4
27.5°	5290.7	5249.0	5093.7	4913.4	4751.5	4841.6	5507.7	5976.9	6549.5	6863.4
30°	5903.4	5858.3	5663.0	5385.9	5095.4	5015.2	5556.2	6065.4	6756.6	7145.5
32.5°	6452.7	6402.6	6235.7	5953.5	5561.2	5315.8	5709.8	6234.0	7082.1	7537.9
35°	6940.2	6881.8	6731.5	6471.1	6132.2	5738.1	5986.9	6532.8	7544.6	8175.6
37.5°	7417.7	7349.2	7185.6	6910.1	6673.1	6300.8	6369.2	6916.8	8158.9	8950.3
40°	7951.9	7853.4	7654.8	7382.6	7152.2	6960.2	6871.7	7387.6	8783.3	9815.1
42.5°	8469.5	8376.0	8138.9	7906.9	7618.0	7562.9	7454.4	7938.6	9466.2	10765.1
45°	9027.1	8915.2	8628.1	8334.2	8152.3	7963.6	8018.7	8489.5	10135.7	11733.4
47.5°	9549.7	9424.4	9085.5	8758.3	8658.1	8300.9	8536.3	9095.5	10831.9	12715.1
50°	9831.8	9708.3	9426.1	9130.6	9052.1	8716.6	9097.2	9761.7	11561.4	13693.4
52.5°	10067.2	9933.6	9564.7	9401.1	9377.7	9169.0	9788.4	10523.0	12291.0	14558.2
55°	10317.6	10169.1	9698.2	9551.3	9658.2	9676.5	10608.1	11386.1	13062.3	15401.3
57.5°	10606.5	10417.8	9826.8	9678.2	9932.0	10270.9	11549.7	12281.0	13820.3	16182.7
60°	10878.6	10688.3	10073.9	9880.2	10227.5	10960.4	12629.9	13364.5	14678.4	16878.9
62.5°	10932.0	10775.1	10270.9	10269.2	10628.2	11765.1	13908.8	14458.1	15428.0	17566.7
65°	10007.1	9908.6	9609.8	10254.2	11202.5	12923.8	15332.9	15857.1	16381.3	18167.7
67.5°	7616.4	7629.7	7608.0	8851.8	10738.4	14588.3	17394.7	17354.7	17558.4	18842.2
70°	3482.6	3561.1	4072.0	6110.4	8603.0	14780.3	20803.9	20284.7	19035.9	19715.4
72.5°	1881.5	1941.7	2150.3	2960.1	5172.2	13140.8	23351.6	23720.6	21000.9	20303.0
75°	1380.7	1414.1	1559.3	1881.5	2172.0	9766.7	22438.4	24331.6	21246.3	18932.4
77.5°	1033.4	1048.5	1167.0	1490.9	1111.9	5148.8	17929.0	20151.1	18187.8	15554.9
80°	749.6	766.3	854.8	1118.6	779.7	1883.2	12311.0	14144.2	12456.3	9915.3
82.5°	517.6	524.2	562.6	761.3	544.3	731.3	6985.3	8294.2	6953.6	3479.3
85°	312.2	320.5	337.2	444.1	308.9	347.3	3015.2	3118.7	2078.6	831.4
87.5°	128.6	136.9	150.3	187.0	121.9	96.8	497.5	624.4	389.0	243.8
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°
5696.4	0°	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4
5713.1	2.5°	5704.8	5693.1	5661.3	5617.9	5577.9	5527.8	5506.1	5487.7	5471.0	5439.3
5758.2	5°	5739.8	5708.1	5622.9	5512.8	5387.5	5250.6	5117.1	5025.3	4946.8	4888.4
5809.9	7.5°	5793.2	5733.1	5577.9	5352.5	5065.3	4771.5	4506.0	4317.4	4175.5	4123.7
5883.4	10°	5848.3	5776.5	5506.1	5108.7	4612.9	4160.4	3808.2	3614.5	3501.0	3464.3
5970.2	12.5°	5913.4	5808.3	5394.2	4769.8	4107.0	3611.2	3304.0	3190.5	3132.0	3112.0
6077.1	15°	6008.6	5835.0	5225.6	4345.8	3624.5	3210.5	3011.8	2933.3	2903.3	2901.6
6187.2	17.5°	6080.4	5840.0	4963.5	3891.7	3253.9	2968.4	2804.8	2774.7	2794.8	2824.8
6295.8	20°	6160.5	5794.9	4619.6	3477.6	2993.5	2756.4	2687.9	2708.0	2756.4	2799.8
6439.3	22.5°	6217.3	5713.1	4203.9	3155.4	2768.1	2634.5	2631.2	2672.9	2699.6	2721.3
6608.0	25°	6267.4	5574.5	3763.1	2884.9	2582.7	2561.0	2597.8	2584.4	2566.1	2584.4
6776.6	27.5°	6304.1	5355.8	3369.1	2647.9	2452.5	2511.0	2489.3	2459.2	2457.5	2467.6
6975.3	30°	6292.4	5063.7	3045.2	2422.5	2360.7	2417.5	2365.7	2360.7	2355.7	2360.7
7274.1	32.5°	6292.4	4731.4	2796.4	2267.2	2302.3	2280.6	2275.6	2263.9	2243.8	2242.2
7679.8	35°	6327.5	4399.2	2582.7	2183.7	2253.9	2202.1	2205.4	2177.1	2135.3	2115.3
8217.4	37.5°	6399.3	4132.1	2370.7	2143.7	2168.7	2167.0	2153.7	2105.3	2031.8	1968.4
8888.5	40°	6572.9	4053.6	2225.5	2125.3	2128.6	2148.7	2113.6	2020.1	1853.2	1749.7
9569.7	42.5°	6845.0	4185.5	2193.8	2080.2	2101.9	2122.0	2053.5	1836.5	1717.9	1656.2
10284.2	45°	7190.6	4415.9	2262.2	2015.1	2038.5	2073.5	1869.9	1766.4	1712.9	1714.6
10992.1	47.5°	7628.0	4658.0	2389.1	1958.3	1946.7	1966.7	1748.0	1684.5	1611.1	1629.5
11671.6	50°	8133.9	4903.4	2509.3	1881.5	1844.8	1779.7	1669.5	1609.4	1515.9	1472.5
12327.7	52.5°	8681.5	5140.5	2557.7	1788.1	1734.6	1659.5	1616.1	1542.6	1429.1	1357.3
12947.1	55°	9200.7	5355.8	2504.3	1676.2	1624.4	1566.0	1559.3	1514.3	1392.4	1292.2
13498.1	57.5°	9691.6	5536.1	2370.7	1562.7	1512.6	1477.5	1522.6	1500.9	1347.3	1218.8
14019.0	60°	10107.3	5659.7	2177.1	1447.5	1412.4	1394.0	1462.5	1455.8	1283.9	1140.3
14486.4	62.5°	10437.8	5708.1	1963.4	1337.3	1328.9	1295.5	1379.0	1379.0	1203.7	1063.5
14897.1	65°	10696.6	5661.3	1746.3	1228.8	1245.5	1195.4	1277.2	1267.2	1118.6	995.0
15369.6	67.5°	10925.3	5507.7	1505.9	1121.9	1160.3	1096.9	1170.3	1147.0	1025.1	926.6
15778.6	70°	11027.2	5150.5	1232.1	1015.1	1061.8	1000.0	1063.5	1020.1	919.9	853.1
15329.5	72.5°	10209.1	4280.7	970.0	903.2	943.3	893.2	948.3	898.2	806.4	776.3
13237.6	75°	8446.1	3212.2	746.3	781.3	811.4	773.0	809.7	773.0	689.5	711.2
9778.4	77.5°	6133.8	2168.7	571.0	652.8	666.1	646.1	677.8	636.1	561.0	556.0
4873.3	80°	3050.2	1270.5	447.4	515.9	510.9	497.5	534.2	514.2	450.8	477.5
1315.6	82.5°	883.2	544.3	325.6	362.3	352.3	355.6	382.3	392.3	587.7	582.7
409.0	85°	277.1	213.7	195.3	202.0	192.0	197.0	225.4	447.4	414.0	242.1
126.9	87.5°	71.8	73.5	48.4	51.8	53.4	63.4	71.8	272.1	130.2	85.1
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>
5696.4
5424.3
4839.9
4033.6
3407.5
3117.0
2908.3
2836.5
2814.8
2733.0
2596.1
2484.2
2379.1
2263.9
2135.3
1990.1
1763.0
1656.2
1722.9
1676.2
1484.2
1355.7
1292.2
1212.1
1135.3
1058.5
988.4
919.9
839.8
751.3
649.4
530.9
472.5
596.0
262.1
90.2
0.0

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