

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: P950329

Luminaire Tested: **GALN-SB4D-760-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950329
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-SB4D-760-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44295 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

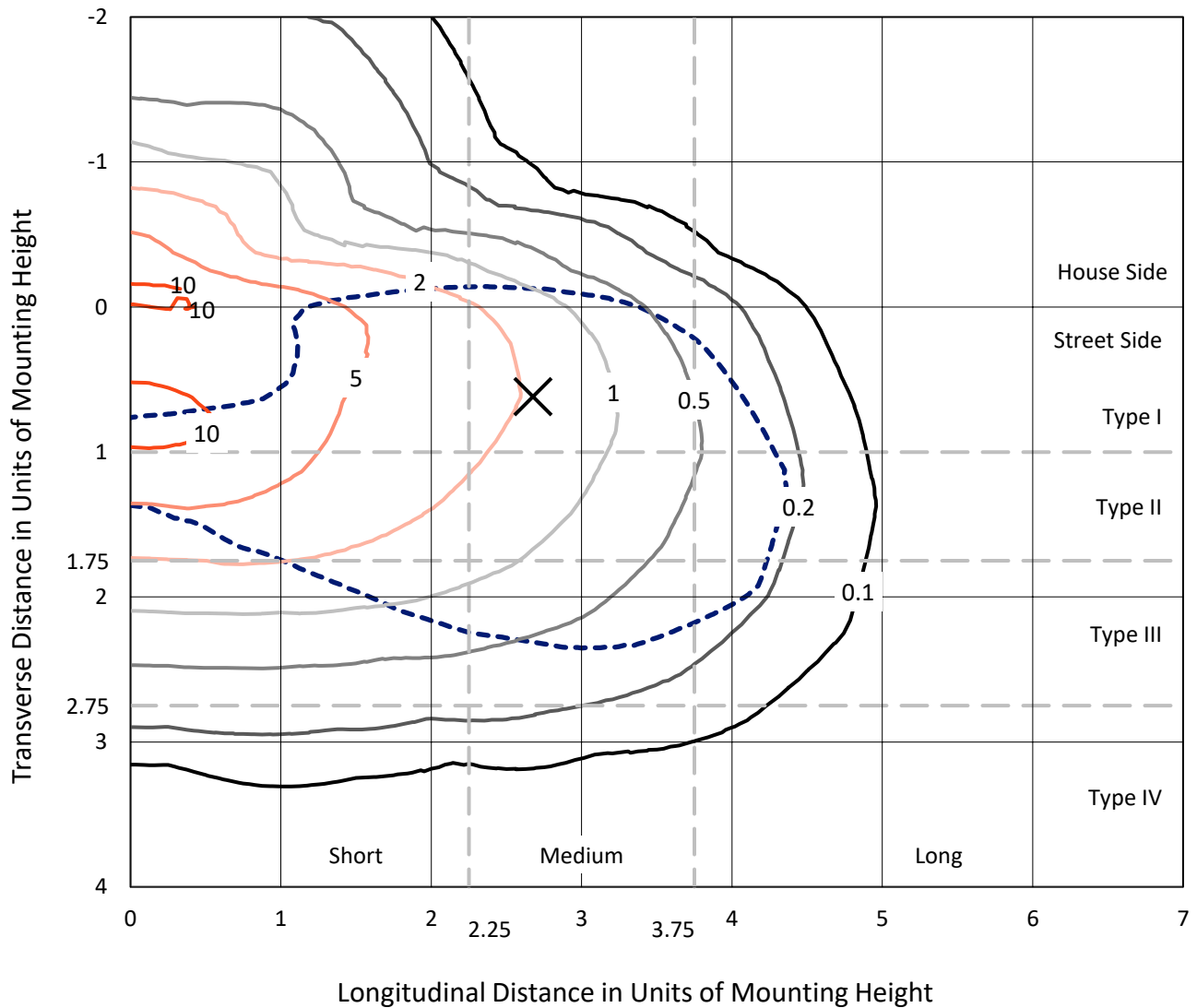
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

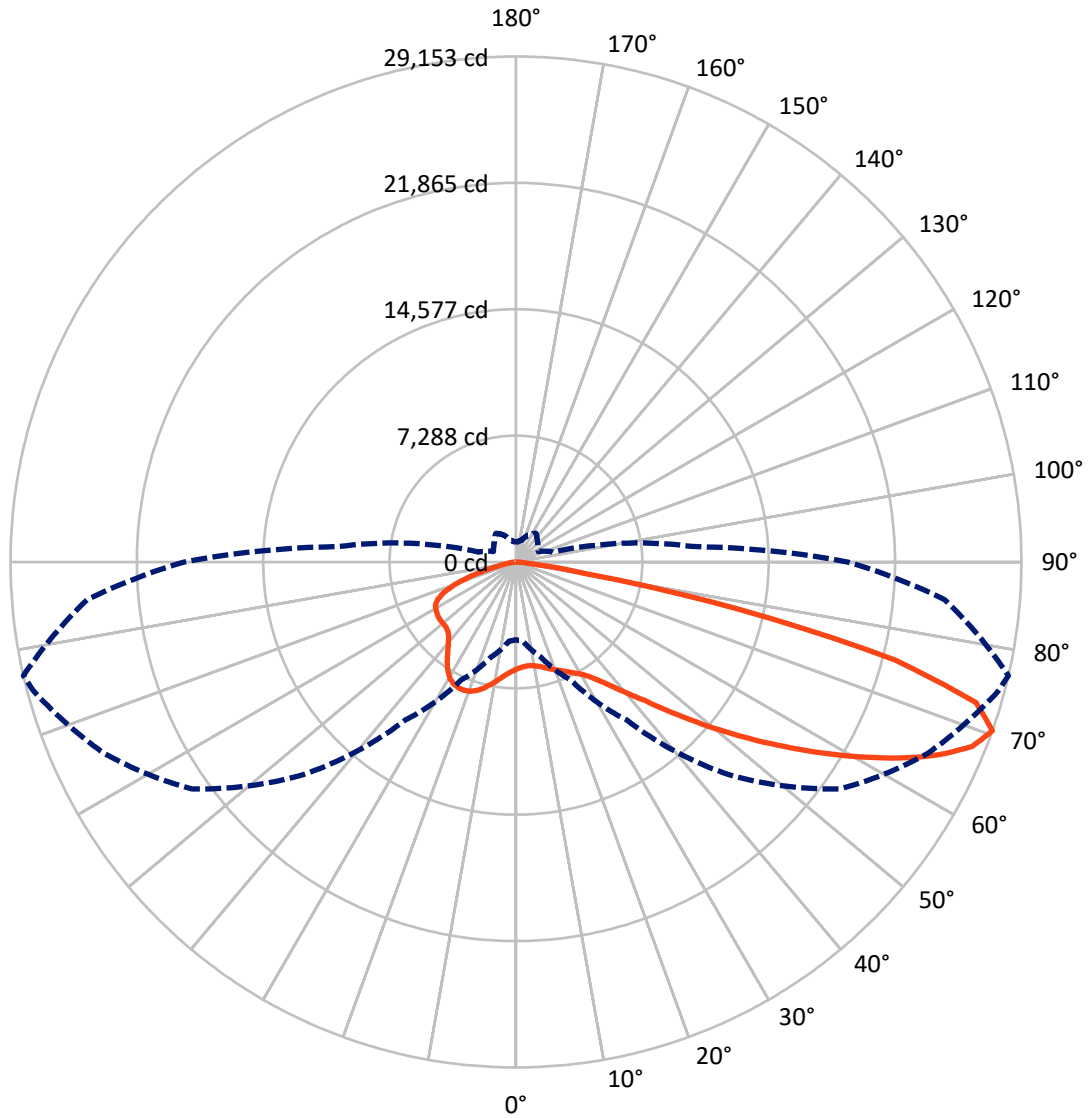
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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
House Side	Lumens	9699.9	0.0	9699.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	34595.1	0.0	34595.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	44295.0	0.0	44295.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.4	1.3
10°-20°	1701.0	3.8
20°-30°	2908.9	6.6
30°-40°	4677.8	10.6
40°-50°	7303.2	16.5
50°-60°	9755.4	22.0
60°-70°	10397.7	23.5
70°-80°	6400.8	14.5
80°-90°	560.9	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°	44295.0	100.0
0°-180°	44295.0	100.0



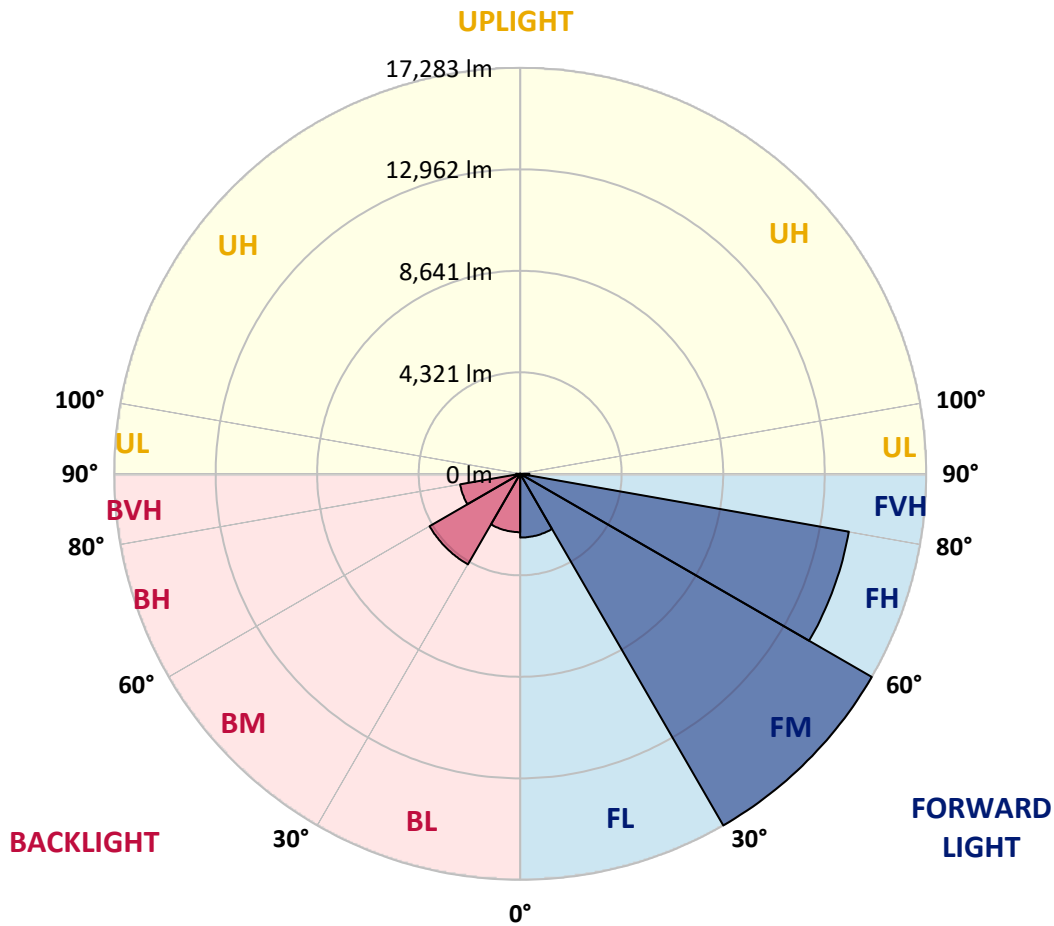
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2713.8	6.1			
FM (30°-60°)	17283.0	39.0			
FH (60°-80°)	14206.1	32.1			G5
FVH (80°-90°)	392.2	0.9			G3/500
BL (0°-30°)	2485.4	5.6	B3/2500		
BM (30°-60°)	4453.4	10.1	B3/5000		
BH (60°-80°)	2592.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	168.7	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°	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6
2.5°	5696.4	5694.1	5723.6	5732.7	5787.1	5825.7	5898.3	5975.4	6075.2	6086.5
5°	5367.4	5367.4	5401.4	5437.7	5508.1	5585.2	5696.4	5830.2	6002.6	6029.8
7.5°	5088.4	5106.5	5136.0	5206.3	5288.0	5399.2	5569.3	5759.9	5986.7	6029.8
10°	4863.8	4884.2	4920.5	4977.2	5099.7	5254.0	5476.3	5721.3	6025.3	6093.4
12.5°	4793.5	4813.9	4834.3	4877.4	4990.8	5172.3	5437.7	5739.5	6118.3	6186.4
15°	4956.8	4981.8	4965.9	4954.5	5013.5	5179.1	5455.9	5805.2	6234.0	6331.6
17.5°	5333.4	5342.5	5306.2	5199.5	5190.5	5278.9	5542.1	5896.0	6379.2	6485.8
20°	5941.4	5925.5	5850.6	5639.6	5519.4	5501.3	5689.5	6032.1	6528.9	6642.3
22.5°	6767.1	6749.0	6599.2	6265.8	5998.1	5821.1	5902.8	6209.0	6696.8	6823.8
25°	7797.0	7772.1	7552.0	7098.3	6683.2	6245.3	6193.2	6442.7	6903.2	7021.2
27.5°	8999.4	8979.0	8740.8	8141.9	7543.0	6826.1	6553.9	6717.2	7118.7	7252.6
30°	10292.5	10351.4	9929.5	9285.2	8527.5	7583.8	7039.3	7055.2	7397.8	7518.0
32.5°	11812.4	11914.5	11406.3	10589.6	9555.2	8407.3	7651.9	7527.1	7803.8	7903.7
35°	13318.7	13434.4	13012.5	12109.6	10918.6	9378.2	8291.6	8069.3	8343.8	8452.7
37.5°	14620.9	14775.1	14557.3	13772.4	12377.3	10548.8	9126.4	8706.7	9008.5	9144.6
40°	15648.5	15884.5	15868.6	15378.6	14096.8	11968.9	10185.8	9493.9	9834.2	9981.7
42.5°	16483.4	16687.5	16864.5	16839.5	15891.3	13581.9	11431.3	10517.0	10775.7	10945.8
45°	17059.6	17277.4	17658.5	18069.1	17617.6	15308.2	12858.2	11730.7	11966.7	12223.0
47.5°	17574.5	17821.8	18316.4	18967.4	19083.1	17041.4	14421.2	13144.0	13359.5	13625.0
50°	17619.9	17833.1	18599.9	19523.2	20124.4	18706.5	16100.0	14729.8	14931.7	15215.2
52.5°	16524.2	16859.9	18198.4	19507.3	20603.1	20099.4	17767.4	16379.0	16605.9	16946.1
55°	12826.4	13318.7	17021.0	18899.4	20432.9	21000.1	19353.1	18132.6	18423.0	18779.1
57.5°	11047.9	11263.4	13511.5	17792.3	19657.1	21233.7	20691.5	19904.3	20371.7	20761.9
60°	9929.5	10108.7	11438.1	16070.5	18636.2	20863.9	21726.0	21555.9	22363.5	22828.5
62.5°	8731.7	8901.8	10111.0	13418.5	17329.5	20249.2	22379.3	23080.3	24405.2	24913.3
65°	7543.0	7688.1	8847.4	11274.7	15668.9	19634.4	22717.4	24398.4	26294.9	26821.2
67.5°	6218.1	6338.4	7434.1	9512.1	13649.9	18792.7	22885.2	25435.1	27939.6	28391.0
70°	4487.2	4580.2	5712.2	7522.5	11115.9	17345.4	22817.2	26170.1	28792.6	29153.3
72.5°	2121.1	2205.0	3534.4	4884.2	7851.5	14527.9	21440.2	25587.1	27926.0	27746.8
75°	1132.0	1204.6	2030.4	2679.2	4146.9	9959.0	17545.0	22041.3	23450.1	22579.0
77.5°	766.8	823.5	1256.8	1608.4	1894.2	4727.7	11277.0	15260.6	14682.1	13243.9
80°	608.0	667.0	1029.9	1088.9	916.5	1708.2	4659.6	7064.3	5074.8	4058.5
82.5°	467.3	533.1	866.6	789.5	499.1	701.0	1356.6	2234.5	1299.9	989.1
85°	285.8	356.2	680.6	503.6	281.3	319.9	460.5	621.6	397.0	331.2
87.5°	145.2	204.2	344.8	183.8	127.0	74.9	122.5	122.5	104.4	90.7
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°
6179.6	0°	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6
6147.8	2.5°	6202.2	6247.6	6324.7	6397.3	6454.1	6508.5	6562.9	6592.4	6601.5	6637.8
6181.8	5°	6274.8	6358.8	6508.5	6649.1	6737.6	6792.1	6830.6	6853.3	6857.9	6869.2
6274.8	7.5°	6408.7	6542.5	6751.2	6891.9	6957.7	6953.1	6937.3	6880.5	6857.9	6837.4
6410.9	10°	6597.0	6773.9	7030.3	7127.8	7087.0	6978.1	6837.4	6671.8	6594.7	6519.8
6597.0	12.5°	6830.6	7055.2	7307.0	7302.5	7100.6	6821.6	6494.9	6240.8	6079.7	5964.0
6826.1	15°	7114.2	7372.8	7565.6	7411.4	6969.0	6467.7	5989.0	5657.8	5512.6	5385.6
7057.5	17.5°	7406.8	7683.6	7772.1	7377.4	6637.8	5943.6	5401.4	5140.6	4997.6	4929.6
7307.0	20°	7692.7	7967.2	7894.6	7182.3	6134.2	5349.3	4866.1	4723.1	4693.6	4709.5
7549.8	22.5°	7994.4	8239.4	7919.5	6805.7	5492.2	4741.3	4475.9	4480.4	4546.2	4593.8
7803.8	25°	8302.9	8468.5	7853.8	6261.2	4802.5	4294.4	4228.6	4301.2	4430.5	4523.5
8089.7	27.5°	8600.1	8672.7	7710.8	5587.5	4210.4	3974.5	3985.9	4135.6	4330.7	4460.0
8436.8	30°	8935.9	8854.2	7436.3	4829.8	3799.8	3700.0	3795.3	3970.0	4165.1	4280.8
8874.6	32.5°	9314.7	9010.7	7000.8	4128.8	3509.5	3480.0	3636.5	3749.9	3836.1	3870.2
9455.4	35°	9786.6	9230.8	6442.7	3636.5	3248.6	3318.9	3468.6	3411.9	3377.9	3359.7
10235.7	37.5°	10399.1	9528.0	5789.4	3316.6	3037.6	3203.2	3264.5	3087.5	2953.7	2887.9
11181.7	40°	11136.4	9963.5	5161.0	3069.4	2903.8	3103.4	2996.8	2783.5	2613.4	2520.4
12245.7	42.5°	11955.3	10419.5	4632.4	2883.3	2828.9	3021.7	2799.4	2545.3	2270.8	2241.3
13513.8	45°	12815.1	10889.1	4271.7	2740.4	2792.6	2951.4	2686.0	2275.4	2080.3	2200.5
14786.5	47.5°	13674.9	11320.1	4053.9	2633.8	2774.4	2872.0	2586.2	2125.6	1987.3	2161.9
16149.9	50°	14632.2	11705.8	3956.4	2556.7	2754.0	2840.2	2436.4	2087.1	1889.7	2005.4
17560.9	52.5°	15582.7	12005.2	3883.8	2479.5	2724.5	2815.3	2363.8	2041.7	1771.7	1778.6
18981.0	55°	16531.0	12200.3	3804.4	2377.5	2658.8	2760.8	2357.0	1991.8	1683.3	1651.5
20482.8	57.5°	17542.8	12311.5	3706.8	2264.0	2545.3	2622.5	2350.2	1953.2	1656.0	1603.9
22018.6	60°	18572.7	12474.8	3579.8	2125.6	2393.3	2456.9	2334.3	1939.6	1640.2	1551.7
23466.0	62.5°	19496.0	12531.5	3427.8	1994.1	2198.2	2293.5	2300.3	1928.3	1597.1	1445.1
24668.3	65°	20101.7	12286.5	3162.4	1844.3	1987.3	2125.6	2234.5	1889.7	1519.9	1367.9
25262.7	67.5°	20076.8	11587.8	2747.2	1651.5	1783.1	1939.6	2139.3	1823.9	1426.9	1272.7
24813.5	70°	19142.1	10208.5	2220.9	1426.9	1558.5	1740.0	2016.7	1726.4	1315.8	1168.3
22064.0	72.5°	16417.6	7989.9	1612.9	1163.8	1297.6	1533.5	1858.0	1608.4	1202.3	1075.3
16306.4	75°	11728.5	5056.6	1093.4	893.8	1009.5	1299.9	1660.6	1470.0	1098.0	1079.8
8166.8	77.5°	5991.3	2416.0	723.7	653.3	703.3	1025.4	1395.2	1313.5	1113.9	891.5
2323.0	80°	1948.7	891.5	456.0	444.6	467.3	682.8	1079.8	1077.6	843.9	605.7
562.6	82.5°	621.6	383.4	297.2	285.8	274.5	428.8	753.2	853.0	569.4	383.4
201.9	85°	247.3	229.1	174.7	161.1	115.7	201.9	394.7	567.1	424.2	276.8
52.2	87.5°	90.7	90.7	47.6	34.0	25.0	68.1	106.6	170.1	242.7	142.9
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>
6179.6
6658.2
6887.3
6842.0
6497.2
5936.8
5371.9
4950.0
4702.7
4605.2
4548.5
4491.7
4308.0
3888.3
3377.9
2903.8
2527.2
2270.8
2264.0
2243.6
2091.6
1826.2
1674.2
1610.7
1558.5
1445.1
1367.9
1279.5
<i>1181.9</i>
1068.5
1018.6
794.0
535.4
381.1
283.6
140.7
0.0

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