

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: P956241

Luminaire Tested: **GALN-SB8D-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956241
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-SB8D-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55944 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

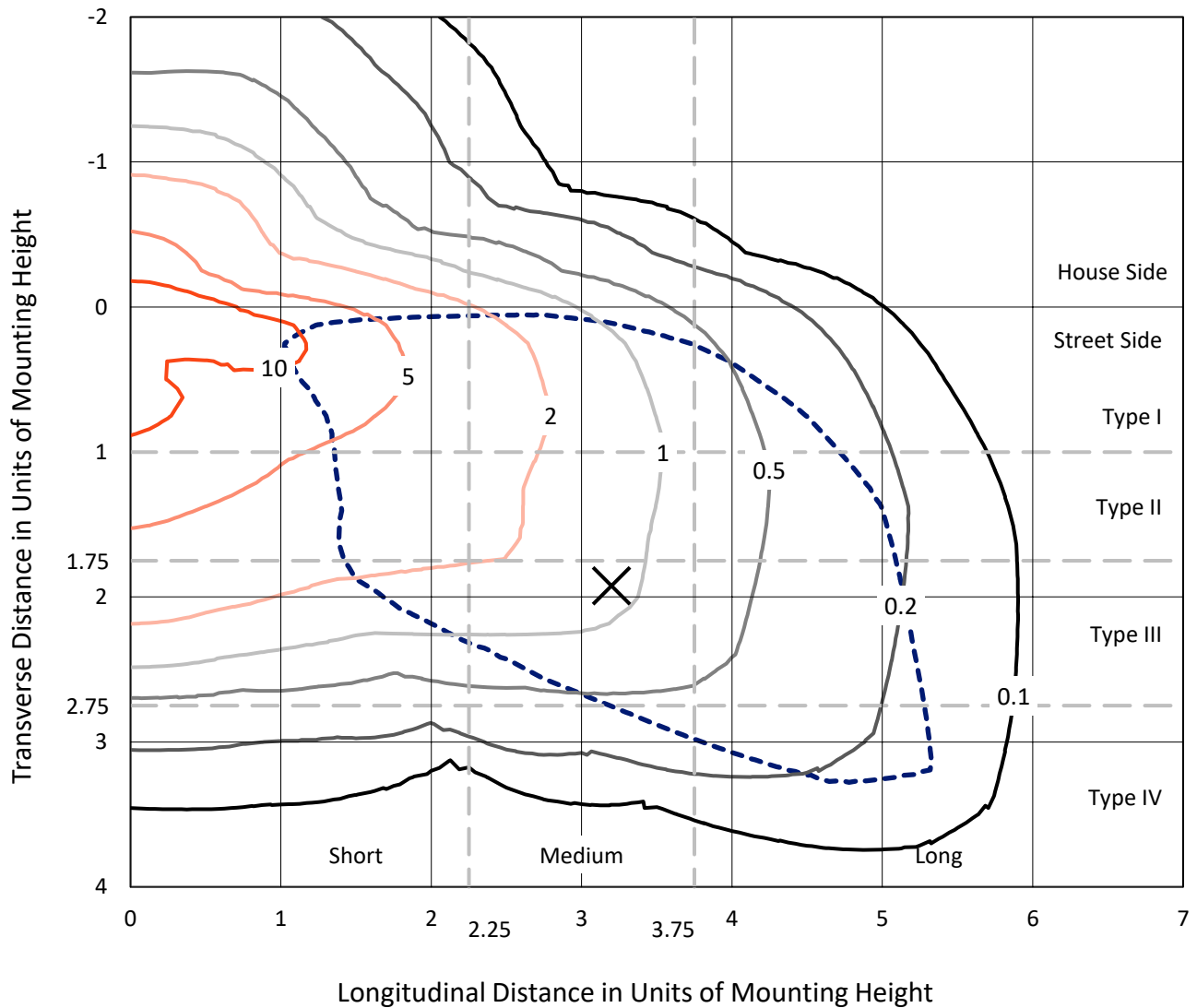
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

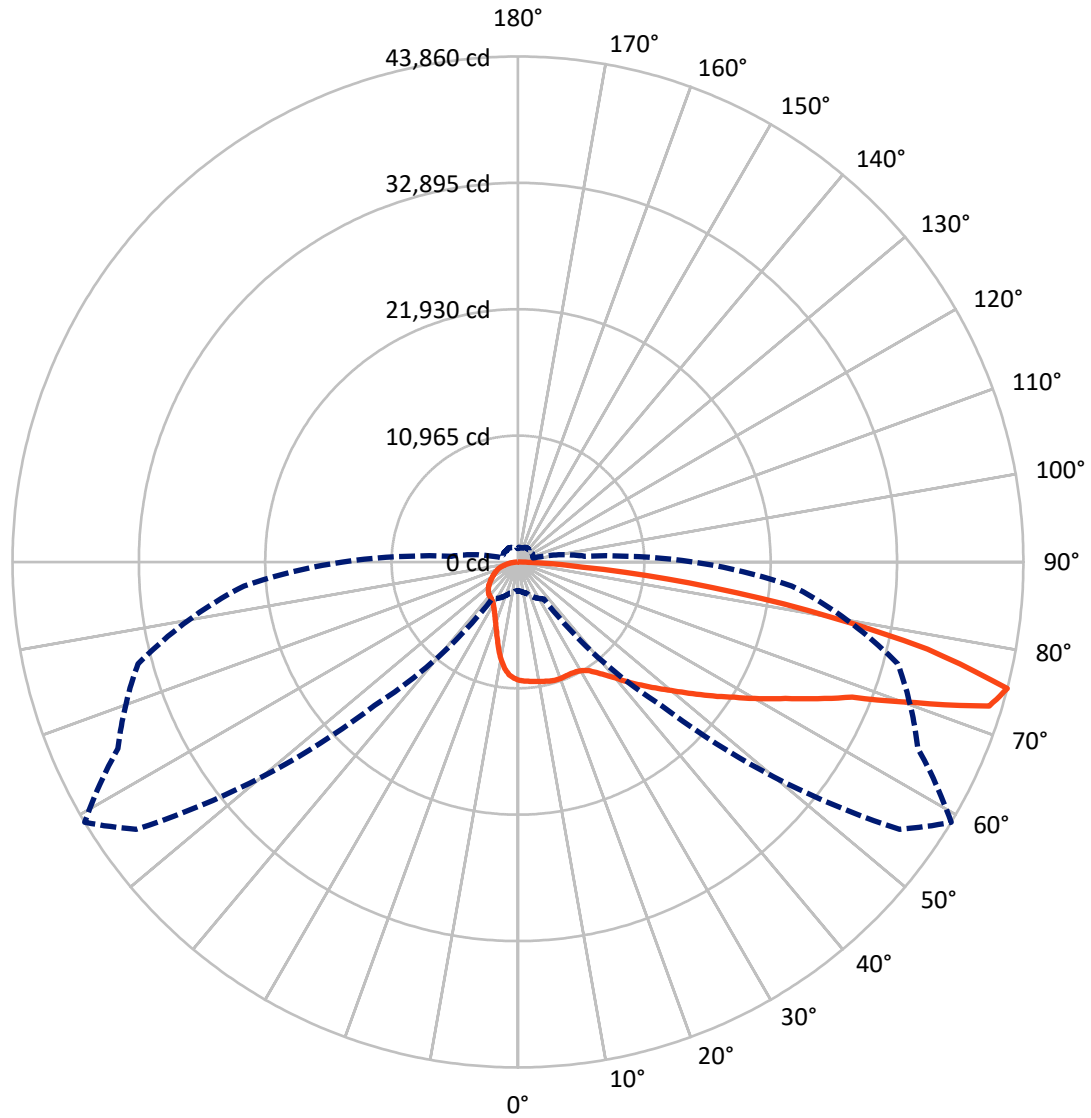
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	10492.7	0.0	10492.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	45451.3	0.0	45451.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	55944.0	0.0	55944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.7	1.6
10°-20°	2353.4	4.2
20°-30°	3574.7	6.4
30°-40°	5313.7	9.5
40°-50°	7902.4	14.1
50°-60°	10726.5	19.2
60°-70°	13095.3	23.4
70°-80°	10277.0	18.4
80°-90°	1780.2	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°	55944.0	100.0
0°-180°	55944.0	100.0

Coefficient of Utilization



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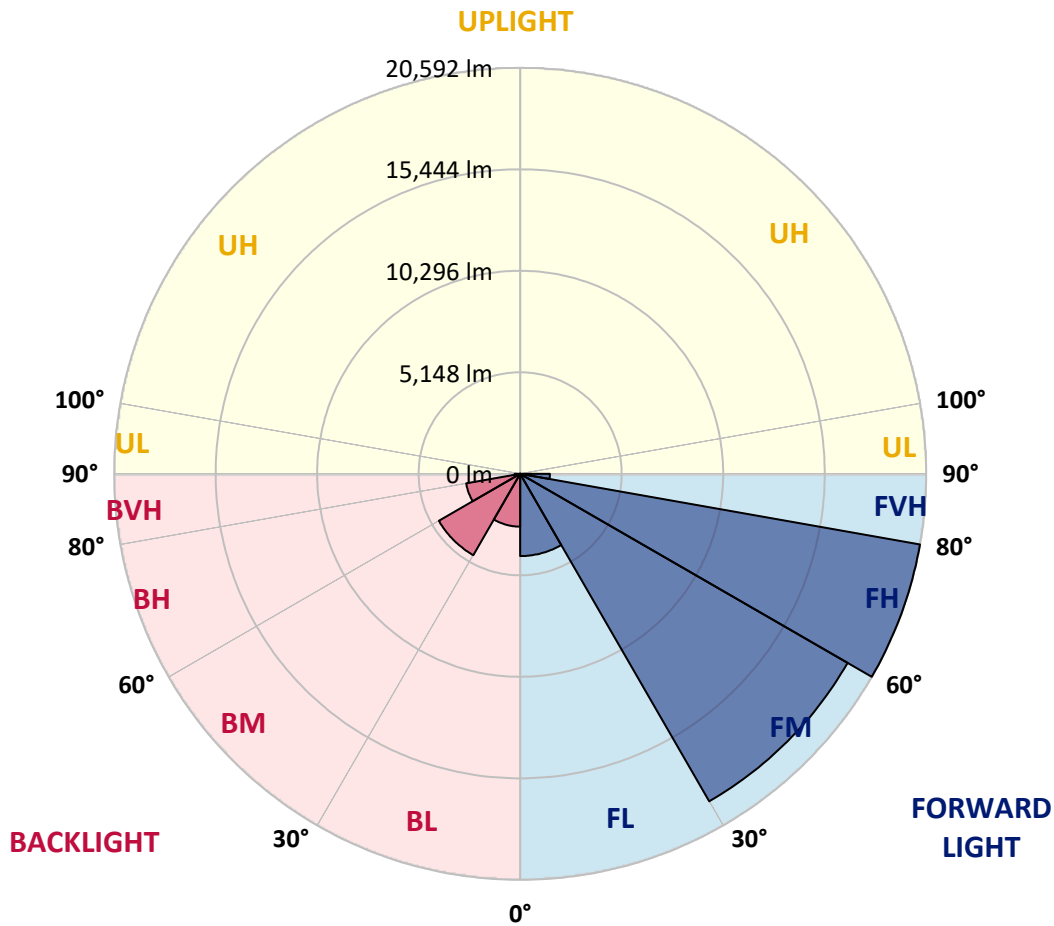
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4171.2	7.5			
FM (30°-60°)	19179.9	34.3			
FH (60°-80°)	20592.4	36.8			G5
FVH (80°-90°)	1507.7	2.7			G5
BL (0°-30°)	2677.6	4.8	B4/5000		
BM (30°-60°)	4762.6	8.5	B3/5000		
BH (60°-80°)	2779.9	5.0	B4/5000		G4/5000
BVH (80°-90°)	272.5	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4
2.5°	10355.7	10319.6	10355.7	10340.6	10334.6	10322.6	10325.6	10346.6	10334.6	10349.7
5°	10286.5	10265.4	10301.5	10292.5	10331.6	10337.6	10376.7	10400.8	10415.9	10418.9
7.5°	10172.1	10151.0	10202.2	10244.3	10328.6	10352.7	10433.9	10473.0	10494.1	10530.2
10°	9753.8	9744.7	9871.1	10030.6	10229.3	10352.7	10476.1	10542.3	10575.4	10671.7
12.5°	9013.4	9025.5	9191.0	9498.0	9895.2	10292.5	10524.2	10620.5	10671.7	10792.0
15°	8306.2	8303.2	8483.8	8811.8	9368.6	10027.6	10548.3	10713.8	10801.1	10978.6
17.5°	7896.9	7884.9	8011.3	8261.1	8778.7	9621.4	10488.1	10765.0	10951.6	11174.3
20°	7821.7	7797.6	7863.8	7987.2	8354.4	9175.9	10331.6	10765.0	11071.9	11360.8
22.5°	8095.5	8056.4	8029.3	8014.3	8176.8	8808.8	10154.0	10728.8	11249.5	11628.7
25°	8646.3	8586.1	8447.7	8312.2	8264.1	8643.3	9997.5	10719.8	11514.3	11989.8
27.5°	9537.1	9461.9	9182.0	8856.9	8565.0	8727.5	9928.3	10774.0	11806.2	12372.0
30°	10641.6	10560.3	10208.2	9708.6	9185.0	9040.5	10015.6	10933.5	12179.4	12880.6
32.5°	11631.7	11541.4	11240.5	10731.9	10024.6	9582.2	10292.5	11237.5	12766.3	13587.9
35°	12510.5	12405.1	12134.3	11664.8	11053.9	10343.6	10792.0	11776.2	13599.9	14737.5
37.5°	13371.2	13247.8	12952.9	12456.3	12029.0	11357.8	11481.2	12468.3	14707.4	16133.9
40°	14334.2	14156.7	13798.5	13308.0	12892.7	12546.6	12387.1	13317.0	15833.0	17692.8
42.5°	15267.2	15098.6	14671.3	14253.0	13732.3	13633.0	13437.4	14310.1	17063.8	19405.2
45°	16272.3	16070.7	15553.1	15023.4	14695.4	14355.3	14454.6	15303.3	18270.6	21150.7
47.5°	17214.3	16988.6	16377.7	15787.8	15607.2	14963.2	15387.5	16395.7	19525.6	22920.3
50°	17722.9	17500.2	16991.6	16458.9	16317.5	15712.6	16398.7	17596.5	20840.8	24683.9
52.5°	18147.3	17906.5	17241.4	16946.5	16904.3	16528.1	17644.7	18968.8	22155.9	26242.8
55°	18598.7	18330.8	17482.2	17217.3	17409.9	17443.0	19122.3	20524.8	23546.3	27762.6
57.5°	19119.3	18779.2	17713.9	17446.0	17903.5	18514.4	20819.7	22137.8	24912.6	29171.0
60°	19609.9	19266.8	18159.3	17810.2	18436.2	19757.3	22766.8	24091.0	26459.5	30426.0
62.5°	19706.2	19423.3	18514.4	18511.4	19158.4	21207.9	25072.1	26062.2	27810.7	31665.9
65°	18038.9	17861.4	17322.7	18484.3	20193.7	23296.5	27639.2	28584.2	29529.2	32749.3
67.5°	13729.3	13753.4	13714.3	15956.3	19357.1	26297.0	31355.9	31283.7	31650.9	33965.2
70°	6277.8	6419.3	7340.2	11014.8	15507.9	26643.1	37501.3	36565.4	34314.3	35539.1
72.5°	3391.7	3500.0	3876.2	5335.8	9323.4	23687.7	42093.8	42758.9	37856.4	36598.5
75°	2488.9	2549.0	2810.9	3391.7	3915.4	17605.5	40447.6	43860.4	38298.8	34127.7
77.5°	1862.9	1890.0	2103.6	2687.5	2004.3	9281.3	32319.0	36324.6	32785.4	28039.5
80°	1351.3	1381.4	1540.9	2016.4	1405.4	3394.7	22192.0	25496.4	22453.8	17873.4
82.5°	932.9	945.0	1014.2	1372.3	981.1	1318.2	12591.7	14951.2	12534.5	6271.8
85°	562.8	577.8	607.9	800.5	556.8	626.0	5435.1	5621.7	3746.8	1498.7
87.5°	231.7	246.8	270.9	337.1	219.7	174.6	896.8	1125.6	701.2	439.4
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°
10268.4	0°	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4	10268.4
10298.5	2.5°	10283.4	10262.4	10205.2	10127.0	10054.7	9964.4	9925.3	9892.2	9862.1	9804.9
10379.7	5°	10346.6	10289.5	10136.0	9937.4	9711.6	9464.9	9224.1	9058.6	8917.1	8811.8
10473.0	7.5°	10442.9	10334.6	10054.7	9648.4	9130.8	8601.1	8122.6	7782.6	7526.7	7433.5
10605.5	10°	10542.3	10412.9	9925.3	9209.1	8315.2	7499.7	6864.7	6515.6	6310.9	6244.7
10762.0	12.5°	10659.6	10470.0	9723.7	8598.1	7403.4	6509.5	5955.8	5751.1	5645.8	5609.7
10954.6	15°	10831.2	10518.2	9419.7	7833.7	6533.6	5787.3	5429.1	5287.7	5233.5	5230.5
11153.2	17.5°	10960.6	10527.2	8947.2	7015.1	5865.5	5350.9	5056.0	5001.8	5037.9	5092.1
11348.8	20°	11105.0	10446.0	8327.3	6268.8	5396.0	4968.7	4845.3	4881.4	4968.7	5046.9
11607.6	22.5°	11207.4	10298.5	7577.9	5687.9	4989.7	4749.0	4743.0	4818.2	4866.4	4905.5
11911.6	25°	11297.6	10048.7	6783.4	5200.4	4655.7	4616.6	4682.8	4658.7	4625.6	4658.7
12215.5	27.5°	11363.9	9654.5	6073.2	4773.1	4420.9	4526.3	4487.2	4433.0	4430.0	4448.0
12573.7	30°	11342.8	9127.8	5489.3	4366.8	4255.4	4357.7	4264.5	4255.4	4246.4	4255.4
13112.4	32.5°	11342.8	8528.9	5040.9	4086.9	4150.1	4111.0	4101.9	4080.9	4044.8	4041.8
13843.7	35°	11406.0	7930.0	4655.7	3936.4	4062.8	3969.5	3975.5	3924.4	3849.1	3813.0
14812.7	37.5°	11535.4	7448.5	4273.5	3864.2	3909.3	3906.3	3882.2	3795.0	3662.6	3548.2
16022.6	40°	11848.4	7307.1	4011.7	3831.1	3837.1	3873.2	3810.0	3641.5	3340.5	3154.0
17250.4	42.5°	12338.9	7544.8	3954.5	3749.8	3789.0	3825.1	3701.7	3310.4	3096.8	2985.4
18538.5	45°	12961.9	7960.1	4077.9	3632.5	3674.6	3737.8	3370.6	3184.0	3087.7	3090.8
19814.5	47.5°	13750.4	8396.5	4306.6	3530.1	3509.1	3545.2	3150.9	3036.6	2904.2	2937.3
21039.4	50°	14662.3	8838.9	4523.3	3391.7	3325.5	3208.1	3009.5	2901.2	2732.6	2654.4
22222.1	52.5°	15649.4	9266.2	4610.5	3223.2	3126.9	2991.4	2913.2	2780.8	2576.1	2446.7
23338.6	55°	16585.3	9654.5	4514.2	3021.5	2928.2	2822.9	2810.9	2729.6	2509.9	2329.3
24331.8	57.5°	17470.1	9979.5	4273.5	2816.9	2726.6	2663.4	2744.7	2705.5	2428.7	2196.9
25270.7	60°	18219.5	10202.2	3924.4	2609.2	2546.0	2512.9	2636.3	2624.3	2314.3	2055.5
26113.4	62.5°	18815.4	10289.5	3539.2	2410.6	2395.6	2335.4	2485.8	2485.8	2169.8	1917.0
26853.7	65°	19281.8	10205.2	3147.9	2215.0	2245.1	2154.8	2302.3	2284.2	2016.4	1793.7
27705.4	67.5°	19694.1	9928.3	2714.6	2022.4	2091.6	1977.2	2109.7	2067.5	1847.8	1670.3
28442.7	70°	19877.7	9284.3	2221.0	1829.8	1914.0	1802.7	1917.0	1838.8	1658.2	1537.9
27633.2	72.5°	18403.1	7716.3	1748.5	1628.1	1700.4	1610.1	1709.4	1619.1	1453.6	1399.4
23862.3	75°	15225.0	5790.3	1345.2	1408.4	1462.6	1393.4	1459.6	1393.4	1242.9	1282.0
17626.6	77.5°	11056.9	3909.3	1029.2	1176.7	1200.8	1164.7	1221.9	1146.6	1011.2	1002.2
8784.7	80°	5498.3	2290.2	806.5	929.9	920.9	896.8	963.0	926.9	812.6	860.7
2371.5	82.5°	1592.0	981.1	586.9	653.1	635.0	641.0	689.2	707.2	1059.3	1050.3
737.3	85°	499.6	385.2	352.1	364.1	346.1	355.1	406.3	806.5	746.4	436.4
228.7	87.5°	129.4	132.4	87.3	93.3	96.3	114.4	129.4	490.5	234.7	153.5
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>
10268.4
9777.8
8724.5
7270.9
6142.4
5618.7
5242.5
5113.1
5074.0
4926.5
4679.8
4478.1
4288.5
4080.9
3849.1
3587.3
3178.0
2985.4
3105.8
3021.5
2675.4
2443.7
2329.3
2184.9
2046.5
1908.0
1781.6
1658.2
1513.8
1354.3
<i>1170.7</i>
957.0
851.7
1074.4
472.5
162.5
0.0

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