

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: P950466

Luminaire Tested: **GALN-SB4D-930-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950466
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-SB4D-930-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 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: 27728 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

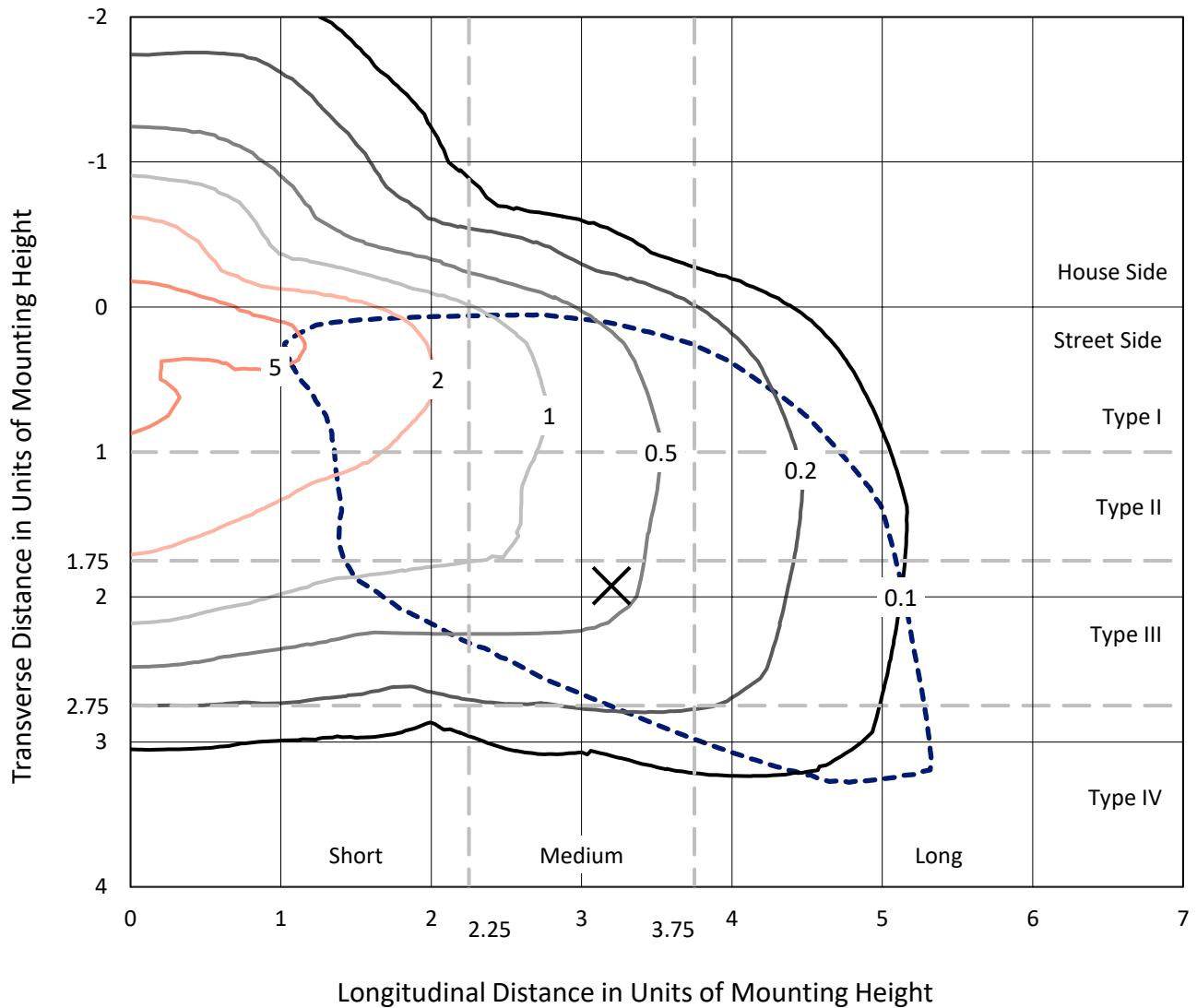
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

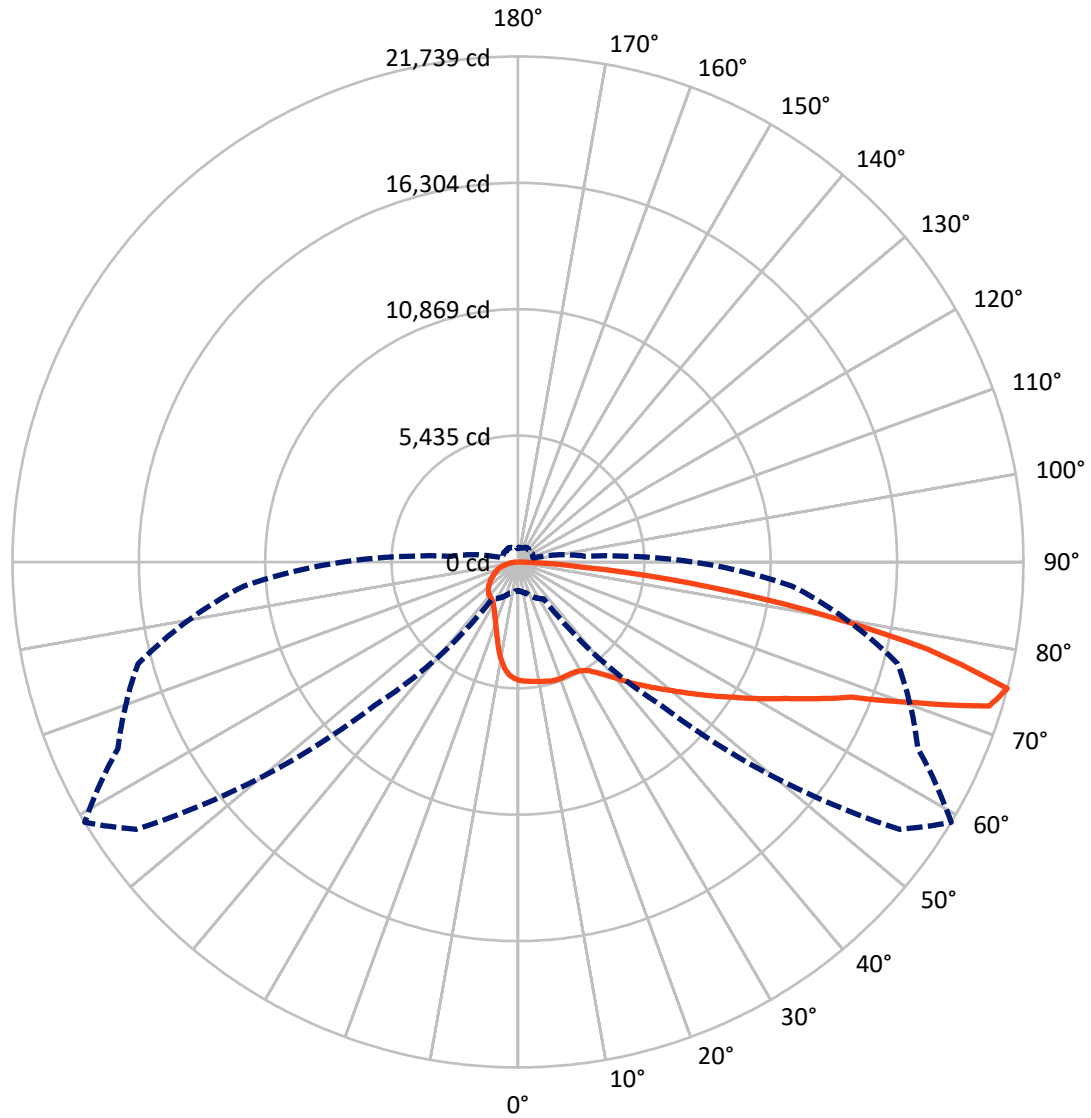
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	5200.6	0.0	5200.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22527.4	0.0	22527.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	27728.0	0.0	27728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.3	1.6
10°-20°	1166.5	4.2
20°-30°	1771.8	6.4
30°-40°	2633.7	9.5
40°-50°	3916.7	14.1
50°-60°	5316.5	19.2
60°-70°	6490.5	23.4
70°-80°	5093.7	18.4
80°-90°	882.3	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°	27728.0	100.0
0°-180°	27728.0	100.0

Coefficient of Utilization



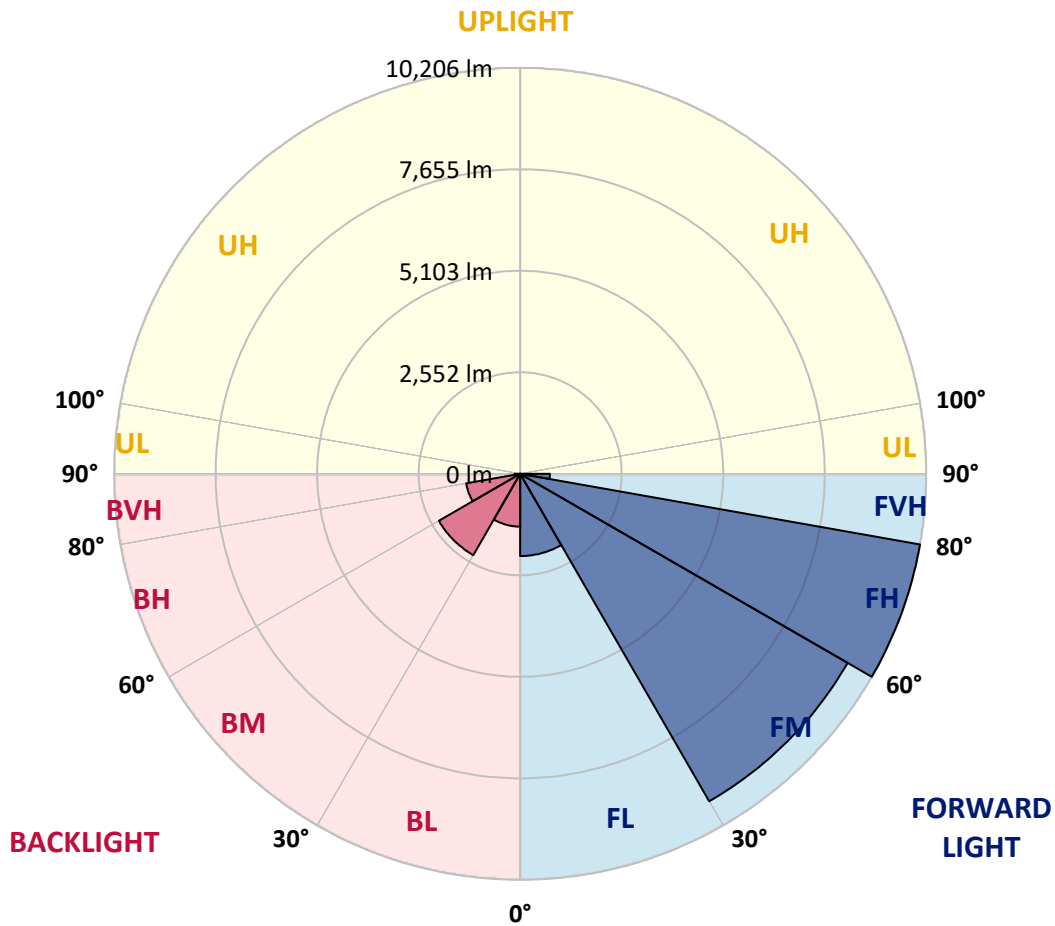
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.4	7.5			
FM (30°-60°)	9506.3	34.3			
FH (60°-80°)	10206.4	36.8			G4/12000
FVH (80°-90°)	747.3	2.7			G4/750
BL (0°-30°)	1327.1	4.8	B3/2500		
BM (30°-60°)	2360.5	8.5	B2/2500		
BH (60°-80°)	1377.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	135.1	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4
2.5°	5132.7	5114.8	5132.7	5125.2	5122.2	5116.3	5117.8	5128.2	5122.2	5129.7
5°	5098.4	5087.9	5105.8	5101.3	5120.7	5123.7	5143.1	5155.0	5162.5	5164.0
7.5°	5041.7	5031.2	5056.6	5077.5	5119.2	5131.2	5171.5	5190.8	5201.3	5219.2
10°	4834.3	4829.9	4892.5	4971.6	5070.0	5131.2	5192.3	5225.2	5241.6	5289.3
12.5°	4467.4	4473.4	4555.4	4707.6	4904.5	5101.3	5216.2	5263.9	5289.3	5349.0
15°	4116.9	4115.4	4204.9	4367.5	4643.4	4970.1	5228.1	5310.2	5353.4	5441.4
17.5°	3914.0	3908.0	3970.7	4094.5	4351.1	4768.7	5198.3	5335.5	5428.0	5538.4
20°	3876.7	3864.8	3897.6	3958.8	4140.7	4548.0	5120.7	5335.5	5487.7	5630.9
22.5°	4012.5	3993.1	3979.6	3972.2	4052.7	4366.0	5032.7	5317.6	5575.7	5763.6
25°	4285.4	4255.6	4187.0	4119.9	4096.0	4283.9	4955.2	5313.2	5706.9	5942.6
27.5°	4726.9	4689.7	4550.9	4389.8	4245.2	4325.7	4920.9	5340.0	5851.6	6132.1
30°	5274.4	5234.1	5059.6	4812.0	4552.4	4480.8	4964.1	5419.1	6036.6	6384.1
32.5°	5765.1	5720.4	5571.2	5319.1	4968.6	4749.3	5101.3	5569.7	6327.5	6734.7
35°	6200.7	6148.5	6014.2	5781.5	5478.7	5126.7	5349.0	5836.7	6740.6	7304.5
37.5°	6627.3	6566.1	6419.9	6173.8	5962.0	5629.4	5690.5	6179.8	7289.6	7996.6
40°	7104.6	7016.6	6839.1	6596.0	6390.1	6218.6	6139.5	6600.4	7847.4	8769.2
42.5°	7567.0	7483.5	7271.7	7064.3	6806.3	6757.0	6660.1	7092.7	8457.5	9618.0
45°	8065.2	7965.3	7708.7	7446.2	7283.6	7115.0	7164.3	7584.9	9055.6	10483.1
47.5°	8532.1	8420.2	8117.4	7825.0	7735.5	7416.3	7626.7	8126.4	9677.6	11360.2
50°	8784.2	8673.8	8421.7	8157.7	8087.6	7787.8	8127.8	8721.5	10329.5	12234.3
52.5°	8994.5	8875.1	8545.5	8399.3	8378.4	8192.0	8745.4	9401.7	10981.3	13006.9
55°	9218.2	9085.5	8664.8	8533.6	8629.0	8645.4	9477.8	10172.9	11670.4	13760.2
57.5°	9476.3	9307.7	8779.7	8646.9	8873.7	9176.5	10319.0	10972.4	12347.6	14458.3
60°	9719.4	9549.4	9000.4	8827.4	9137.7	9792.5	11284.1	11940.4	13114.3	15080.3
62.5°	9767.1	9626.9	9176.5	9175.0	9495.7	10511.5	12426.7	12917.4	13784.1	15694.8
65°	8940.8	8852.8	8585.8	9161.5	10008.8	11546.6	13699.1	14167.4	14635.8	16231.8
67.5°	6804.8	6816.7	6797.3	7908.6	9594.1	13033.8	15541.2	15505.4	15687.4	16834.4
70°	3111.5	3181.6	3638.1	5459.3	7686.3	13205.3	18587.1	18123.2	17007.5	17614.6
72.5°	1681.1	1734.8	1921.2	2644.6	4621.0	11740.6	20863.3	21193.0	18763.1	18139.6
75°	1233.6	1263.4	1393.2	1681.1	1940.6	8726.0	20047.4	21738.9	18982.4	16915.0
77.5°	923.3	936.7	1042.6	1332.0	993.4	4600.2	16018.5	18003.9	16249.7	13897.4
80°	669.7	684.7	763.7	999.4	696.6	1682.5	10999.2	12637.0	11129.0	8858.7
82.5°	462.4	468.4	502.7	680.2	486.3	653.3	6240.9	7410.4	6212.6	3108.5
85°	278.9	286.4	301.3	396.8	275.9	310.3	2693.9	2786.3	1857.1	742.8
87.5°	114.9	122.3	134.2	167.1	108.9	86.5	444.5	557.9	347.5	217.8
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°
5089.4	0°	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4
5104.3	2.5°	5096.9	5086.4	5058.1	5019.3	4983.5	4938.8	4919.4	4903.0	4888.0	4859.7
5144.6	5°	5128.2	5099.9	5023.8	4925.3	4813.5	4691.1	4571.8	4489.8	4419.7	4367.5
5190.8	7.5°	5175.9	5122.2	4983.5	4782.1	4525.6	4263.1	4025.9	3857.3	3730.5	3684.3
5256.5	10°	5225.2	5161.0	4919.4	4564.4	4121.4	3717.1	3402.4	3229.4	3127.9	3095.1
5334.0	12.5°	5283.3	5189.4	4819.4	4261.6	3669.4	3226.4	2951.9	2850.5	2798.3	2780.4
5429.5	15°	5368.3	5213.2	4668.8	3882.7	3238.3	2868.4	2690.9	2620.8	2593.9	2592.4
5527.9	17.5°	5432.5	5217.7	4434.6	3477.0	2907.2	2652.1	2505.9	2479.1	2497.0	2523.8
5624.9	20°	5504.1	5177.4	4127.3	3107.0	2674.5	2462.7	2401.5	2419.4	2462.7	2501.4
5753.2	22.5°	5554.8	5104.3	3755.9	2819.2	2473.1	2353.8	2350.8	2388.1	2412.0	2431.3
5903.8	25°	5599.5	4980.5	3362.1	2577.5	2307.5	2288.1	2321.0	2309.0	2292.6	2309.0
6054.5	27.5°	5632.4	4785.1	3010.1	2365.7	2191.2	2243.4	2224.0	2197.2	2195.7	2204.6
6232.0	30°	5621.9	4524.1	2720.7	2164.3	2109.2	2159.9	2113.6	2109.2	2104.7	2109.2
6499.0	32.5°	5621.9	4227.3	2498.5	2025.6	2056.9	2037.6	2033.1	2022.6	2004.7	2003.2
6861.5	35°	5653.2	3930.4	2307.5	1951.0	2013.7	1967.4	1970.4	1945.1	1907.8	1889.9
7341.8	37.5°	5717.4	3691.8	2118.1	1915.2	1937.6	1936.1	1924.2	1880.9	1815.3	1758.6
7941.4	40°	5872.5	3621.7	1988.3	1898.8	1901.8	1919.7	1888.4	1804.9	1655.7	1563.2
8550.0	42.5°	6115.6	3739.5	1960.0	1858.6	1878.0	1895.9	1834.7	1640.8	1534.9	1479.7
9188.4	45°	6424.4	3945.3	2021.1	1800.4	1821.3	1852.6	1670.6	1578.1	1530.4	1531.9
9820.8	47.5°	6815.2	4161.6	2134.5	1749.7	1739.2	1757.1	1561.7	1505.0	1439.4	1455.8
10427.9	50°	7267.2	4380.9	2241.9	1681.1	1648.2	1590.1	1491.6	1437.9	1354.4	1315.6
11014.1	52.5°	7756.4	4592.7	2285.2	1597.5	1549.8	1482.7	1443.9	1378.3	1276.8	1212.7
11567.5	55°	8220.3	4785.1	2237.4	1497.6	1451.3	1399.1	1393.2	1352.9	1244.0	1154.5
12059.8	57.5°	8658.9	4946.2	2118.1	1396.2	1351.4	1320.1	1360.4	1341.0	1203.7	1088.9
12525.1	60°	9030.3	5056.6	1945.1	1293.2	1261.9	1245.5	1306.7	1300.7	1147.1	1018.8
12942.8	62.5°	9325.6	5099.9	1754.1	1194.8	1187.3	1157.5	1232.1	1232.1	1075.5	950.2
13309.7	65°	9556.8	5058.1	1560.2	1097.8	1112.7	1068.0	1141.1	1132.1	999.4	889.0
13731.9	67.5°	9761.2	4920.9	1345.4	1002.4	1036.7	980.0	1045.6	1024.7	915.9	827.8
14097.3	70°	9852.2	4601.7	1100.8	906.9	948.7	893.5	950.2	911.4	821.9	762.2
13696.1	72.5°	9121.3	3824.5	866.6	807.0	842.8	798.0	847.2	802.5	720.5	693.6
11827.1	75°	7546.1	2869.9	666.8	698.1	724.9	690.6	723.4	690.6	616.0	635.4
8736.4	77.5°	5480.2	1937.6	510.1	583.2	595.2	577.3	605.6	568.3	501.2	496.7
4354.0	80°	2725.2	1135.1	399.8	460.9	456.4	444.5	477.3	459.4	402.7	426.6
1175.4	82.5°	789.1	486.3	290.9	323.7	314.7	317.7	341.6	350.5	525.1	520.6
365.4	85°	247.6	190.9	174.5	180.5	171.5	176.0	201.4	399.8	369.9	216.3
113.4	87.5°	64.1	65.6	43.3	46.2	47.7	56.7	64.1	243.1	116.3	76.1
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>
5089.4
4846.3
4324.2
3603.8
3044.4
2784.9
2598.4
2534.3
2514.9
2441.8
2319.5
2219.5
2125.6
2022.6
1907.8
1778.0
1575.2
1479.7
1539.4
1497.6
1326.1
1211.2
1154.5
1082.9
1014.3
945.7
883.0
821.9
750.3
671.2
580.2
474.3
422.1
532.5
234.2
80.5
0.0

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