

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: P951955

Luminaire Tested: **GALN-SB5D-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35543 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

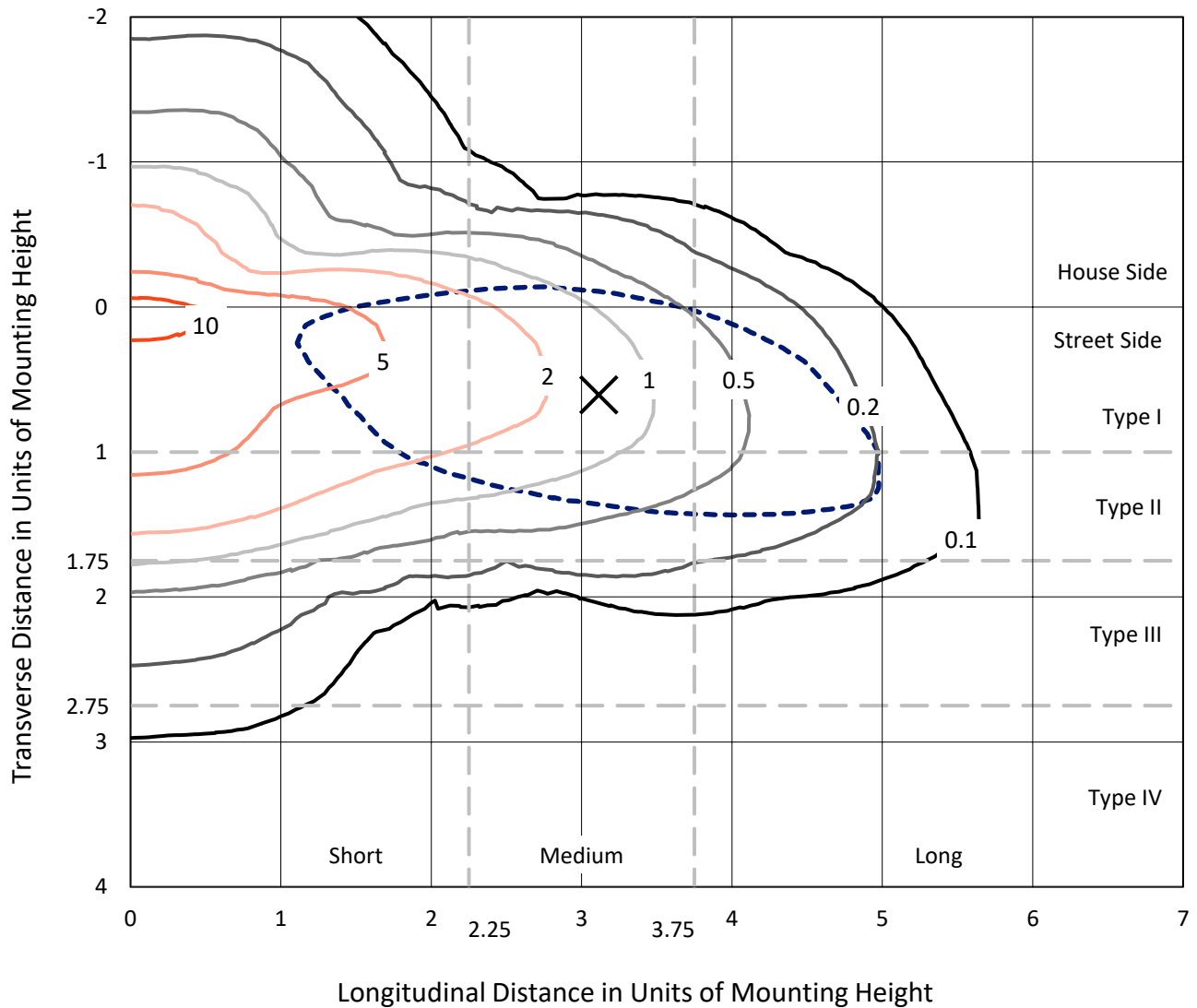
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

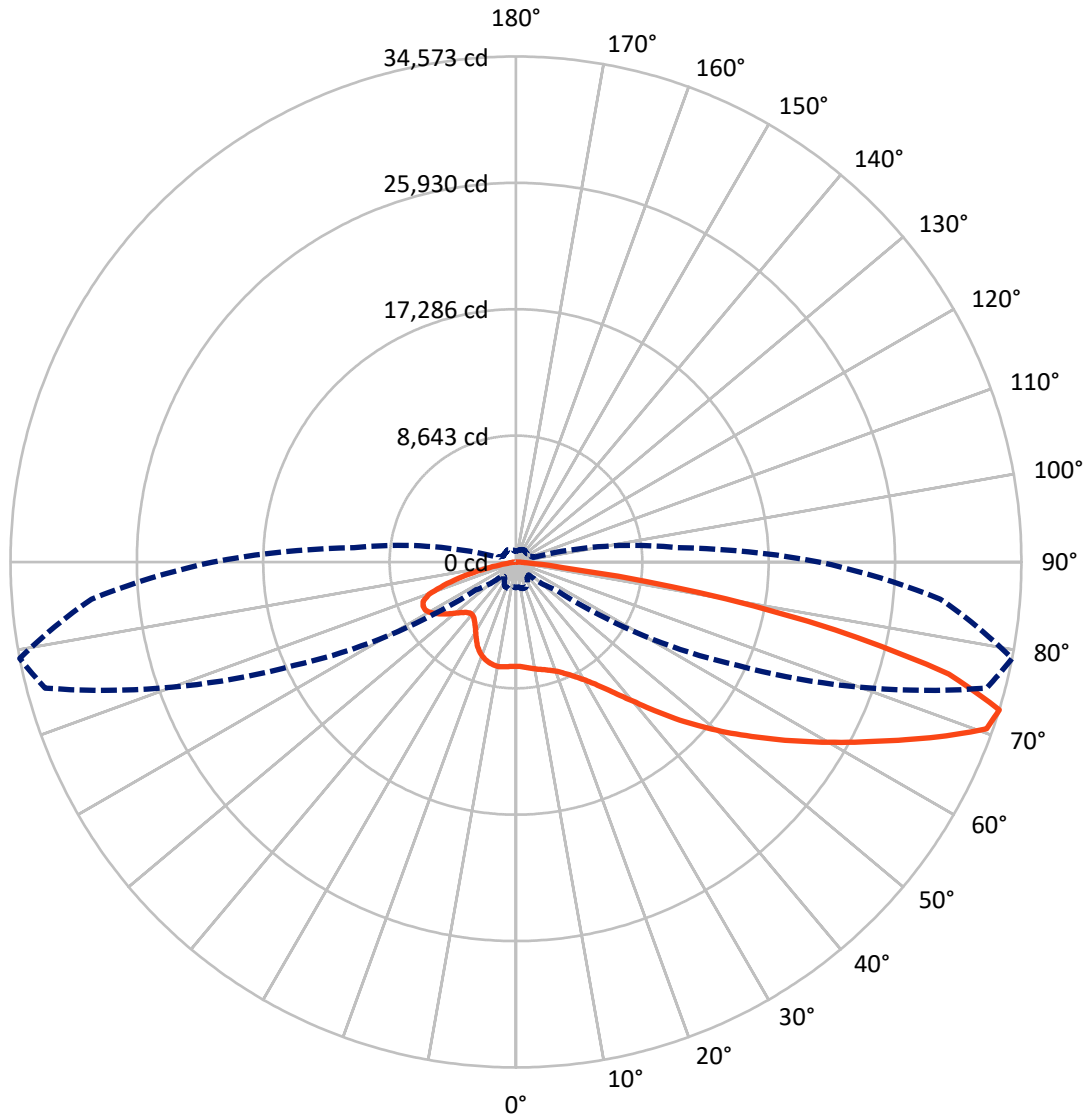
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7821.4	0.0	7821.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27721.6	0.0	27721.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	35543.0	0.0	35543.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.6	1.8
10°-20°	1693.3	4.8
20°-30°	2732.2	7.7
30°-40°	4100.7	11.5
40°-50°	5817.1	16.4
50°-60°	7346.2	20.7
60°-70°	7461.1	21.0
70°-80°	5085.1	14.3
80°-90°	659.7	1.9
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°	35543.0	100.0
0°-180°	35543.0	100.0



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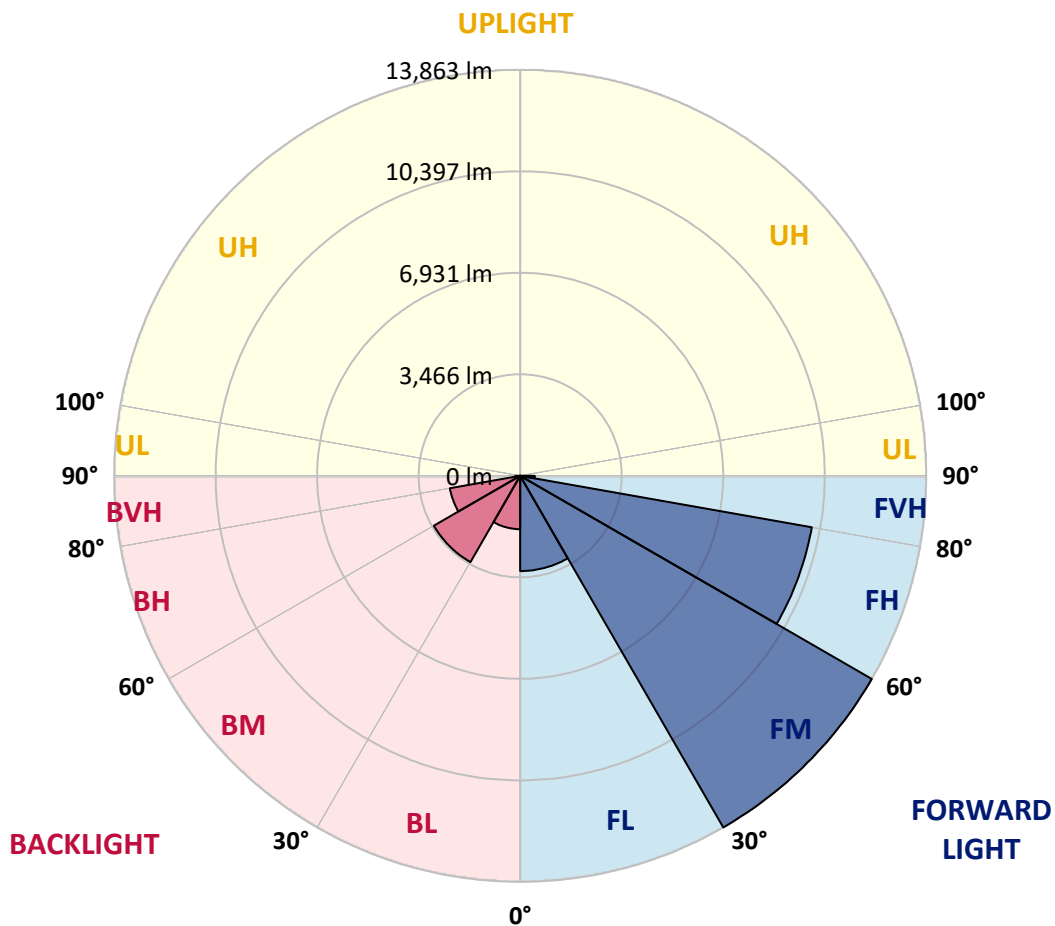
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3251.3	9.1			
FM (30°-60°)	13862.5	39.0			
FH (60°-80°)	10110.8	28.4			G4/12000
FVH (80°-90°)	497.0	1.4			G3/500
BL (0°-30°)	1821.8	5.1	B3/2500		
BM (30°-60°)	3401.5	9.6	B3/5000		
BH (60°-80°)	2435.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	162.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9
2.5°	7138.7	7104.8	7125.5	7118.0	7127.4	7138.7	7142.4	7148.1	7166.9	7165.0
5°	7123.6	7089.8	7118.0	7108.6	7133.0	7159.4	7181.9	7202.6	7232.7	7245.8
7.5°	7091.7	7069.1	7097.3	7125.5	7170.6	7210.1	7242.1	7289.1	7332.3	7339.8
10°	6905.5	6888.6	6954.4	7027.8	7151.8	7259.0	7328.6	7383.1	7430.1	7437.6
12.5°	6711.9	6691.2	6764.5	6864.2	7065.4	7259.0	7405.7	7477.1	7518.5	7542.9
15°	6679.9	6663.0	6704.4	6790.9	6958.2	7208.2	7458.3	7589.9	7625.6	7653.8
17.5°	6834.1	6802.1	6819.1	6849.1	6946.9	7161.2	7499.7	7717.7	7772.3	7802.3
20°	7191.3	7146.2	7119.9	7059.7	7042.8	7168.8	7495.9	7871.9	7943.4	7981.0
22.5°	7667.0	7636.9	7580.5	7428.2	7262.8	7260.9	7567.3	8069.3	8202.8	8238.5
25°	8242.3	8197.2	8125.7	7918.9	7601.2	7443.3	7687.7	8321.3	8545.0	8554.4
27.5°	8904.1	8836.4	8738.6	8466.0	8037.4	7729.0	7871.9	8610.8	8937.9	8934.2
30°	9601.6	9533.9	9430.5	9099.6	8560.0	8114.4	8127.6	8922.9	9404.2	9383.5
32.5°	10111.1	10060.3	10039.6	9784.0	9161.7	8569.4	8420.9	9268.8	9979.5	9960.7
35°	10502.2	10436.3	10460.8	10331.1	9817.8	9078.9	8780.0	9680.6	10678.9	10677.0
37.5°	10889.4	10831.2	10851.8	10765.4	10425.1	9725.7	9218.1	10184.4	11545.6	11587.0
40°	11242.9	11180.9	11263.6	11182.7	10897.0	10413.8	9716.3	10754.1	12549.6	12628.5
42.5°	11455.4	11406.5	11543.7	11545.6	11306.8	10994.7	10263.4	11382.0	13711.5	13888.2
45°	11528.7	11511.8	11718.6	11761.8	11669.7	11331.3	10756.0	12066.4	14963.6	15279.4
47.5°	11449.7	11417.8	11703.5	11863.3	11936.7	11489.2	11163.9	12807.1	16242.0	16704.5
50°	11051.1	10989.1	11414.0	11750.5	12011.9	11592.6	11575.7	13662.6	17695.4	18201.1
52.5°	10334.8	10287.8	10771.0	11355.7	11846.4	11643.4	12038.2	14597.0	19075.3	19729.6
55°	9419.2	9357.2	9889.2	10652.6	11434.7	11626.4	12500.7	15642.3	20703.5	21367.2
57.5°	7967.8	7843.7	8516.8	9419.2	10763.5	11605.8	12982.0	16682.0	22358.0	23153.2
60°	5850.8	5666.6	6491.9	7561.7	9451.2	11404.6	13578.0	17847.6	24343.3	25059.6
62.5°	3406.7	3299.5	3839.1	4837.5	7123.6	10220.1	13912.6	19203.2	26294.9	27046.9
65°	2645.3	2615.2	2662.2	2739.3	3965.1	7651.9	12880.5	20524.9	28776.6	29303.0
67.5°	2419.7	2397.1	2417.8	2273.0	2011.7	4262.2	10190.1	20859.5	31435.0	31754.6
70°	2150.8	2124.5	2192.2	2068.1	1583.0	1938.4	6584.1	19645.0	33550.1	34149.8
72.5°	1752.2	1722.2	1880.1	1823.7	1333.0	1244.6	3307.1	16759.1	33328.3	34572.9
75°	1346.1	1329.2	1517.2	1564.2	1086.7	979.5	1586.8	12457.4	29329.3	30583.3
77.5°	1045.3	1032.2	1128.1	1299.1	876.1	759.6	975.8	7902.0	22102.3	22322.2
80°	784.0	746.4	834.8	1005.8	682.5	554.6	661.8	4608.1	13970.9	12664.2
82.5°	490.7	471.9	545.2	671.2	481.3	381.7	430.5	2545.6	5598.9	3297.7
85°	280.1	272.6	297.1	383.5	261.3	220.0	246.3	1124.3	1022.8	703.2
87.5°	112.8	109.0	135.4	171.1	95.9	80.8	86.5	270.7	225.6	208.7
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°
7134.9	0°	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9	7134.9
7163.1	2.5°	7155.6	7155.6	7129.3	7087.9	7040.9	7010.8	6962.0	6948.8	6898.0	6883.0
7227.0	5°	7242.1	7227.0	7146.2	7029.6	6869.8	6723.2	6561.5	6460.0	6317.1	6266.3
7353.0	7.5°	7351.1	7309.8	7170.6	6914.9	6580.3	6251.3	5909.1	5649.7	5401.5	5313.1
7456.4	10°	7450.8	7392.5	7155.6	6708.1	6129.1	5559.4	5014.2	4632.5	4343.0	4224.5
7571.1	12.5°	7550.4	7443.3	7056.0	6364.1	5488.0	4715.3	4134.3	3837.3	3658.6	3515.8
7665.1	15°	7644.4	7494.0	6901.8	5903.5	4784.8	4000.8	3572.2	3335.3	3192.4	3098.4
7802.3	17.5°	7753.5	7537.3	6670.5	5318.8	4115.5	3506.4	3156.7	3013.8	2985.6	2974.3
7990.4	20°	7905.8	7576.7	6366.0	4664.5	3622.9	3111.5	2931.1	2917.9	2916.0	2910.4
8216.0	22.5°	8069.3	7623.7	5963.6	4070.4	3203.7	2865.2	2833.3	2807.0	2790.0	2788.2
8488.6	25°	8263.0	7638.8	5459.8	3583.4	2846.4	2748.7	2711.1	2671.6	2660.3	2660.3
8798.8	27.5°	8451.0	7588.0	4873.2	3160.4	2645.3	2641.5	2592.6	2579.5	2577.6	2583.2
9152.2	30°	8639.0	7492.1	4290.4	2769.4	2528.7	2528.7	2511.8	2521.2	2528.7	2547.5
9637.3	32.5°	8892.8	7390.6	3803.4	2479.8	2427.2	2408.4	2425.3	2444.1	2451.6	2476.1
10274.7	35°	9265.1	7319.2	3416.1	2321.9	2321.9	2297.5	2306.9	2303.1	2286.2	2274.9
11045.5	37.5°	9757.6	7315.4	3096.5	2248.6	2233.5	2229.8	2231.7	2207.2	2141.4	2062.5
11978.0	40°	10349.9	7416.9	2850.2	2197.8	2186.5	2209.1	2197.8	2132.0	1951.5	1814.3
13124.9	42.5°	11145.1	7706.5	2692.3	2135.8	2169.6	2197.8	2152.7	1925.2	1803.0	1710.9
14431.5	45°	12081.4	8176.5	2611.4	2070.0	2137.7	2171.5	1953.4	1853.8	1756.0	1645.1
15856.6	47.5°	13141.8	8768.7	2592.6	2007.9	2066.2	2086.9	1868.8	1823.7	1712.8	1592.4
17289.3	50°	14296.2	9470.0	2643.4	1934.6	1962.8	1891.4	1840.6	1799.2	1684.6	1566.1
18757.6	52.5°	15490.0	10242.7	2744.9	1835.0	1859.4	1780.4	1829.3	1793.6	1667.6	1507.8
20274.8	55°	16663.2	11021.1	2842.7	1718.4	1754.1	1680.8	1797.4	1771.0	1590.6	1410.1
21893.6	57.5°	17855.2	11795.6	2938.6	1615.0	1652.6	1584.9	1746.6	1710.9	1504.1	1319.8
23660.9	60°	19094.1	12547.7	2983.7	1515.3	1541.7	1496.5	1669.5	1607.5	1406.3	1227.7
25398.1	62.5°	20254.1	13173.7	2910.4	1415.7	1432.6	1413.8	1568.0	1485.3	1308.5	1124.3
27208.6	65°	21417.9	13546.0	2684.8	1317.9	1321.7	1312.3	1425.1	1353.7	1193.9	1034.0
28793.5	67.5°	22472.6	13754.7	2325.7	1212.7	1203.3	1199.5	1291.6	1210.8	1082.9	943.8
29998.6	70°	22696.4	13224.5	1776.7	1088.6	1088.6	1079.2	1145.0	1062.2	960.7	847.9
29135.7	72.5°	20729.8	11124.5	1261.5	947.6	962.6	943.8	998.3	928.8	836.6	761.4
25110.4	75°	16715.8	8157.7	917.5	802.8	829.1	797.2	847.9	799.0	720.1	718.2
17304.3	77.5°	11485.4	5044.3	665.5	661.8	680.6	639.2	697.5	671.2	599.7	567.8
7531.6	80°	4901.4	2011.7	485.1	511.4	511.4	473.8	541.5	549.0	486.9	471.9
1453.3	82.5°	975.8	571.5	340.3	351.6	330.9	319.6	383.5	424.9	586.6	652.4
438.1	85°	293.3	210.6	204.9	191.8	169.2	171.1	225.6	426.8	526.4	300.8
144.8	87.5°	80.8	52.6	54.5	43.2	35.7	47.0	77.1	323.4	176.7	75.2
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>
7134.9
6907.4
6303.9
5324.4
4250.9
3562.8
3115.3
2981.8
2929.2
2808.8
2671.6
2598.3
2560.7
2496.8
2301.2
2064.3
1810.5
1707.1
1637.6
1583.0
1552.9
1496.5
1400.7
1316.1
1222.1
1122.4
1022.8
932.5
844.2
738.9
646.7
532.1
471.9
654.3
259.5
63.9
0.0

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