

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: P951451

Luminaire Tested: **GALN-SB5C-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951451
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-SB5C-835-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34877 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

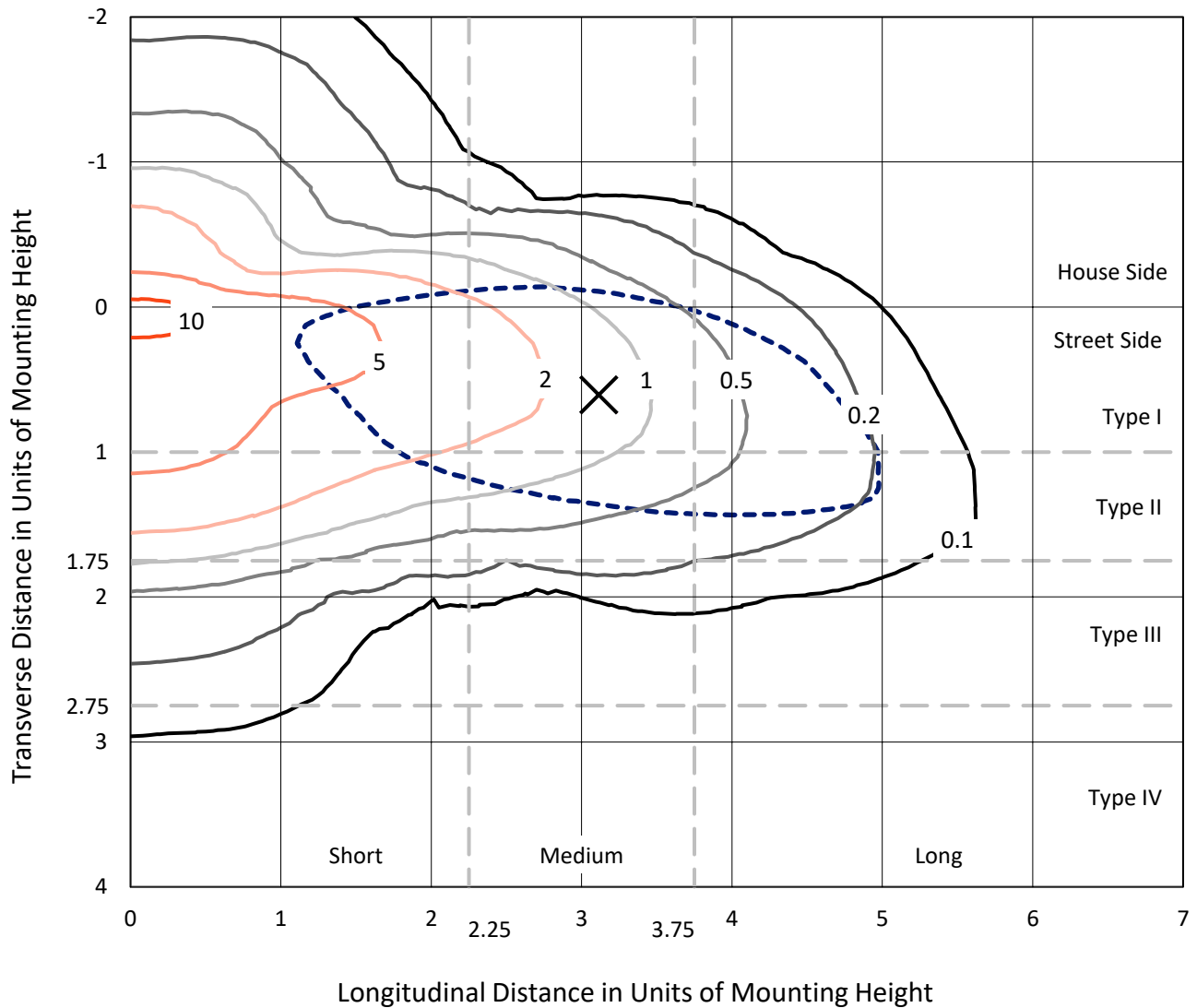
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951451
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Iso-Footcandle Lines of Horizontal Illumination

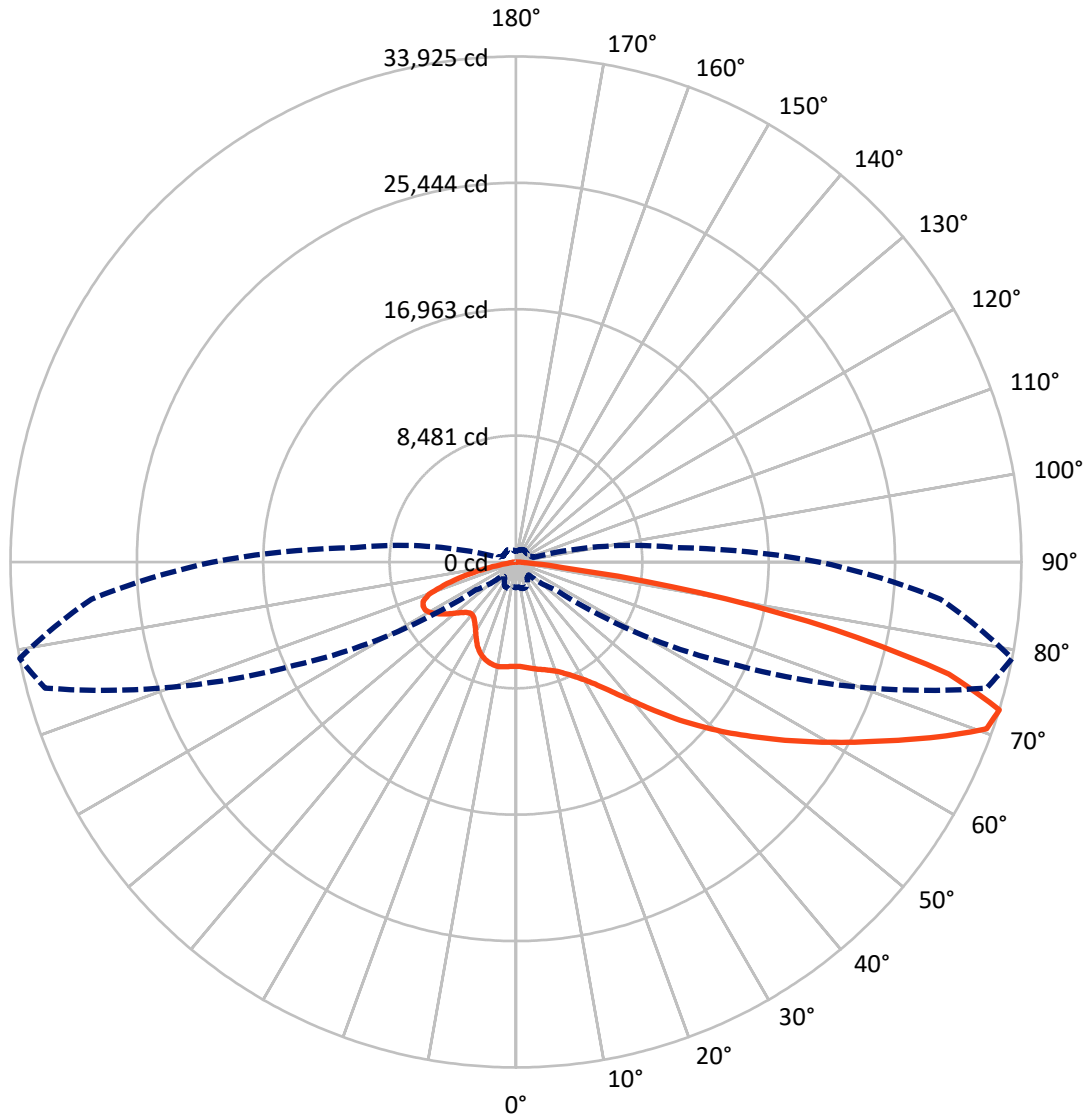
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	7674.9	0.0	7674.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27202.1	0.0	27202.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	34877.0	0.0	34877.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.5	1.8
10°-20°	1661.5	4.8
20°-30°	2681.0	7.7
30°-40°	4023.9	11.5
40°-50°	5708.1	16.4
50°-60°	7208.5	20.7
60°-70°	7321.3	21.0
70°-80°	4989.8	14.3
80°-90°	647.4	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°	34877.0	100.0
0°-180°	34877.0	100.0



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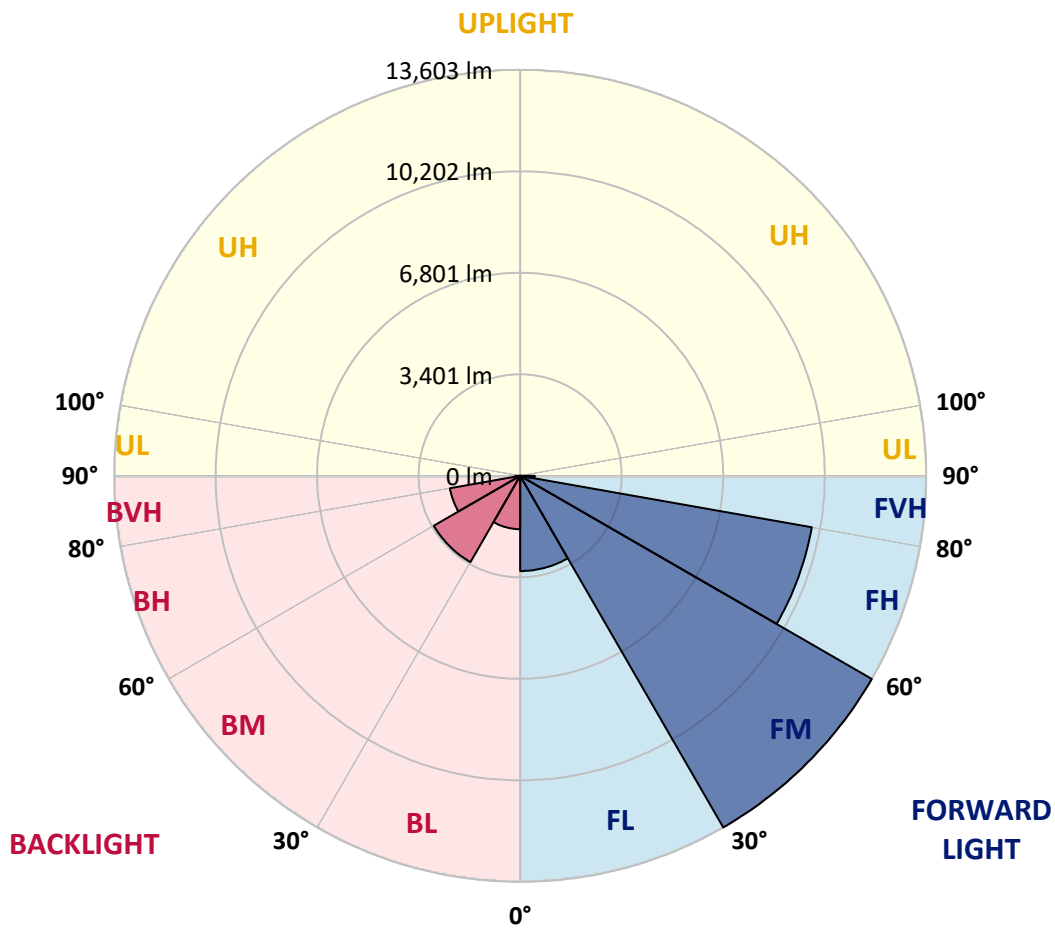
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3190.4	9.1			
FM (30°-60°)	13602.7	39.0			
FH (60°-80°)	9921.3	28.4			G4/12000
FVH (80°-90°)	487.7	1.4			G3/500
BL (0°-30°)	1787.7	5.1	B3/2500		
BM (30°-60°)	3337.8	9.6	B3/5000		
BH (60°-80°)	2389.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	159.7	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



REPORT NUMBER: P951451
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2
2.5°	7004.9	6971.7	6992.0	6984.6	6993.8	7004.9	7008.6	7014.1	7032.6	7030.7
5°	6990.2	6956.9	6984.6	6975.4	6999.4	7025.2	7047.3	7067.6	7097.2	7110.1
7.5°	6958.8	6936.7	6964.3	6992.0	7036.3	7075.0	7106.4	7152.5	7194.9	7202.3
10°	6776.2	6759.6	6824.1	6896.1	7017.8	7123.0	7191.2	7244.7	7290.9	7298.2
12.5°	6586.1	6565.8	6637.8	6735.6	6933.0	7123.0	7266.9	7337.0	7377.6	7401.6
15°	6554.8	6538.2	6578.8	6663.6	6827.8	7073.2	7318.5	7447.7	7482.7	7510.4
17.5°	6706.0	6674.7	6691.3	6720.8	6816.7	7027.1	7359.1	7573.1	7626.6	7656.1
20°	7056.6	7012.3	6986.5	6927.4	6910.8	7034.4	7355.4	7724.4	7794.5	7831.4
22.5°	7523.3	7493.8	7438.5	7289.0	7126.7	7124.8	7425.5	7918.1	8049.1	8084.2
25°	8087.8	8043.6	7973.5	7770.5	7458.8	7303.8	7543.6	8165.3	8384.9	8394.1
27.5°	8737.2	8670.8	8574.9	8307.4	7886.8	7584.2	7724.4	8449.4	8770.4	8766.8
30°	9421.7	9355.3	9253.8	8929.1	8399.6	7962.4	7975.3	8755.7	9228.0	9207.7
32.5°	9921.6	9871.8	9851.5	9600.6	8990.0	8408.9	8263.1	9095.1	9792.5	9774.0
35°	10305.4	10240.8	10264.8	10137.5	9633.8	8908.8	8615.5	9499.2	10478.8	10476.9
37.5°	10685.4	10628.2	10648.5	10563.6	10229.7	9543.4	9045.3	9993.6	11329.3	11369.8
40°	11032.2	10971.4	11052.5	10973.2	10692.8	10218.7	9534.2	10552.6	12314.4	12391.9
42.5°	11240.7	11192.7	11327.4	11329.3	11095.0	10788.7	10071.1	11168.8	13454.5	13627.9
45°	11312.7	11296.0	11499.0	11541.4	11451.0	11118.9	10554.4	11840.3	14683.2	14993.1
47.5°	11235.2	11203.8	11484.2	11641.0	11713.0	11273.9	10954.8	12567.2	15937.7	16391.5
50°	10844.1	10783.2	11200.1	11530.3	11786.8	11375.4	11358.8	13406.6	17363.8	17860.0
52.5°	10141.2	10095.0	10569.2	11142.9	11624.4	11425.2	11812.6	14323.5	18717.9	19359.9
55°	9242.7	9181.8	9703.9	10453.0	11220.4	11408.6	12266.4	15349.2	20315.5	20966.8
57.5°	7818.5	7696.7	8357.2	9242.7	10561.8	11388.3	12738.7	16369.4	21939.0	22719.4
60°	5741.2	5560.4	6370.3	7420.0	9274.1	11190.9	13323.5	17513.2	23887.2	24590.1
62.5°	3342.9	3237.7	3767.2	4746.8	6990.2	10028.6	13651.9	18843.4	25802.1	26540.1
65°	2595.7	2566.2	2612.3	2688.0	3890.8	7508.6	12639.1	20140.3	28237.4	28753.9
67.5°	2374.3	2352.2	2372.5	2230.4	1974.0	4182.3	9999.1	20468.7	30846.0	31159.6
70°	2110.5	2084.7	2151.1	2029.3	1553.4	1902.0	6460.7	19276.9	32921.4	33510.0
72.5°	1719.4	1689.9	1844.9	1789.5	1308.0	1221.3	3245.1	16445.0	32703.8	33925.0
75°	1320.9	1304.3	1488.8	1534.9	1066.3	961.2	1557.1	12224.0	28779.7	30010.3
77.5°	1025.7	1012.8	1106.9	1274.8	859.7	745.3	957.5	7753.9	21688.1	21904.0
80°	769.3	732.4	819.1	987.0	669.7	544.2	649.4	4521.7	13709.1	12426.9
82.5°	481.5	463.1	535.0	658.6	472.3	374.5	422.5	2497.9	5494.0	3235.9
85°	274.9	267.5	291.5	376.4	256.4	215.8	241.7	1103.2	1003.6	690.0
87.5°	110.7	107.0	132.8	167.9	94.1	79.3	84.9	265.7	221.4	204.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951451
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7001.2	0°	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2	7001.2
7028.9	2.5°	7021.5	7021.5	6995.7	6955.1	6909.0	6879.5	6831.5	6818.6	6768.8	6754.0
7091.6	5°	7106.4	7091.6	7012.3	6897.9	6741.1	6597.2	6438.5	6338.9	6198.7	6148.9
7215.2	7.5°	7213.4	7172.8	7036.3	6785.4	6457.0	6134.1	5798.4	5543.8	5300.3	5213.6
7316.7	10°	7311.2	7254.0	7021.5	6582.4	6014.2	5455.2	4920.2	4545.7	4261.6	4145.4
7429.2	12.5°	7408.9	7303.8	6923.7	6244.8	5385.1	4626.9	4056.8	3765.3	3590.1	3449.9
7521.5	15°	7501.2	7353.6	6772.5	5792.8	4695.2	3925.9	3505.2	3272.8	3132.6	3040.3
7656.1	17.5°	7608.2	7396.0	6545.5	5219.1	4038.4	3440.7	3097.5	2957.3	2929.6	2918.6
7840.6	20°	7757.6	7434.8	6246.7	4577.1	3555.0	3053.2	2876.1	2863.2	2861.4	2855.8
8062.0	22.5°	7918.1	7480.9	5851.9	3994.1	3143.6	2811.6	2780.2	2754.4	2737.8	2735.9
8329.5	25°	8108.1	7495.6	5357.5	3516.3	2793.1	2697.2	2660.3	2621.5	2610.5	2610.5
8633.9	27.5°	8292.6	7445.8	4781.9	3101.2	2595.7	2592.0	2544.1	2531.1	2529.3	2534.8
8980.8	30°	8477.1	7351.7	4210.0	2717.5	2481.3	2481.3	2464.7	2474.0	2481.3	2499.8
9456.7	32.5°	8726.2	7252.1	3732.1	2433.4	2381.7	2363.3	2379.9	2398.3	2405.7	2429.7
10082.1	35°	9091.4	7182.0	3352.1	2278.4	2278.4	2254.4	2263.6	2259.9	2243.3	2232.3
10838.5	37.5°	9574.8	7178.3	3038.5	2206.4	2191.7	2188.0	2189.8	2165.9	2101.3	2023.8
11753.6	40°	10155.9	7278.0	2796.8	2156.6	2145.6	2167.7	2156.6	2092.1	1915.0	1780.3
12878.9	42.5°	10936.3	7562.1	2641.8	2095.8	2129.0	2156.6	2112.4	1889.1	1769.2	1678.8
14161.1	45°	11855.0	8023.3	2562.5	2031.2	2097.6	2130.8	1916.8	1819.0	1723.1	1614.2
15559.5	47.5°	12895.5	8604.4	2544.1	1970.3	2027.5	2047.8	1833.8	1789.5	1680.7	1562.6
16965.3	50°	14028.3	9292.5	2593.9	1898.4	1926.0	1855.9	1806.1	1765.5	1653.0	1536.8
18406.1	52.5°	15199.8	10050.8	2693.5	1800.6	1824.6	1747.1	1795.0	1760.0	1636.4	1479.6
19894.9	55°	16351.0	10814.5	2789.4	1686.2	1721.3	1649.3	1763.7	1737.9	1560.7	1383.6
21483.3	57.5°	17520.6	11574.6	2883.5	1584.7	1621.6	1555.2	1713.9	1678.8	1475.9	1295.1
23217.5	60°	18736.4	12312.6	2927.8	1487.0	1512.8	1468.5	1638.2	1577.4	1380.0	1204.7
24922.2	62.5°	19874.6	12926.9	2855.8	1389.2	1405.8	1387.3	1538.6	1457.4	1284.0	1103.2
26698.7	65°	21016.6	13292.2	2634.5	1293.2	1296.9	1287.7	1398.4	1328.3	1171.5	1014.7
28254.0	67.5°	22051.6	13497.0	2282.1	1189.9	1180.7	1177.0	1267.4	1188.1	1062.6	926.1
29436.5	70°	22271.1	12976.7	1743.4	1068.2	1068.2	1058.9	1123.5	1042.3	942.7	832.0
28589.7	72.5°	20341.4	10916.0	1237.9	929.8	944.6	926.1	979.6	911.4	821.0	747.2
24639.9	75°	16402.6	8004.8	900.3	787.8	813.6	782.2	832.0	784.1	706.6	704.7
16980.0	77.5°	11270.2	4949.7	653.1	649.4	667.8	627.3	684.4	658.6	588.5	557.1
7390.5	80°	4809.5	1974.0	476.0	501.8	501.8	464.9	531.3	538.7	477.8	463.1
1426.1	82.5°	957.5	560.8	333.9	345.0	324.7	313.6	376.4	416.9	575.6	640.2
429.9	85°	287.8	206.6	201.1	188.2	166.0	167.9	221.4	418.8	516.6	295.2
142.1	87.5°	79.3	51.7	53.5	42.4	35.1	46.1	75.6	317.3	173.4	73.8
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>
7001.2
6778.0
6185.8
5224.6
4171.2
3496.0
3056.9
2925.9
2874.3
2756.2
2621.5
2549.6
2512.7
2450.0
2258.1
2025.7
1776.6
1675.1
1606.9
1553.4
1523.9
1468.5
1374.4
1291.4
1199.2
1101.4
1003.6
915.0
828.3
725.0
634.6
522.1
463.1
642.0
254.6
62.7
0.0

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