

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: P951325

Luminaire Tested: **GALN-SB5C-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951325
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 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: 37602 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

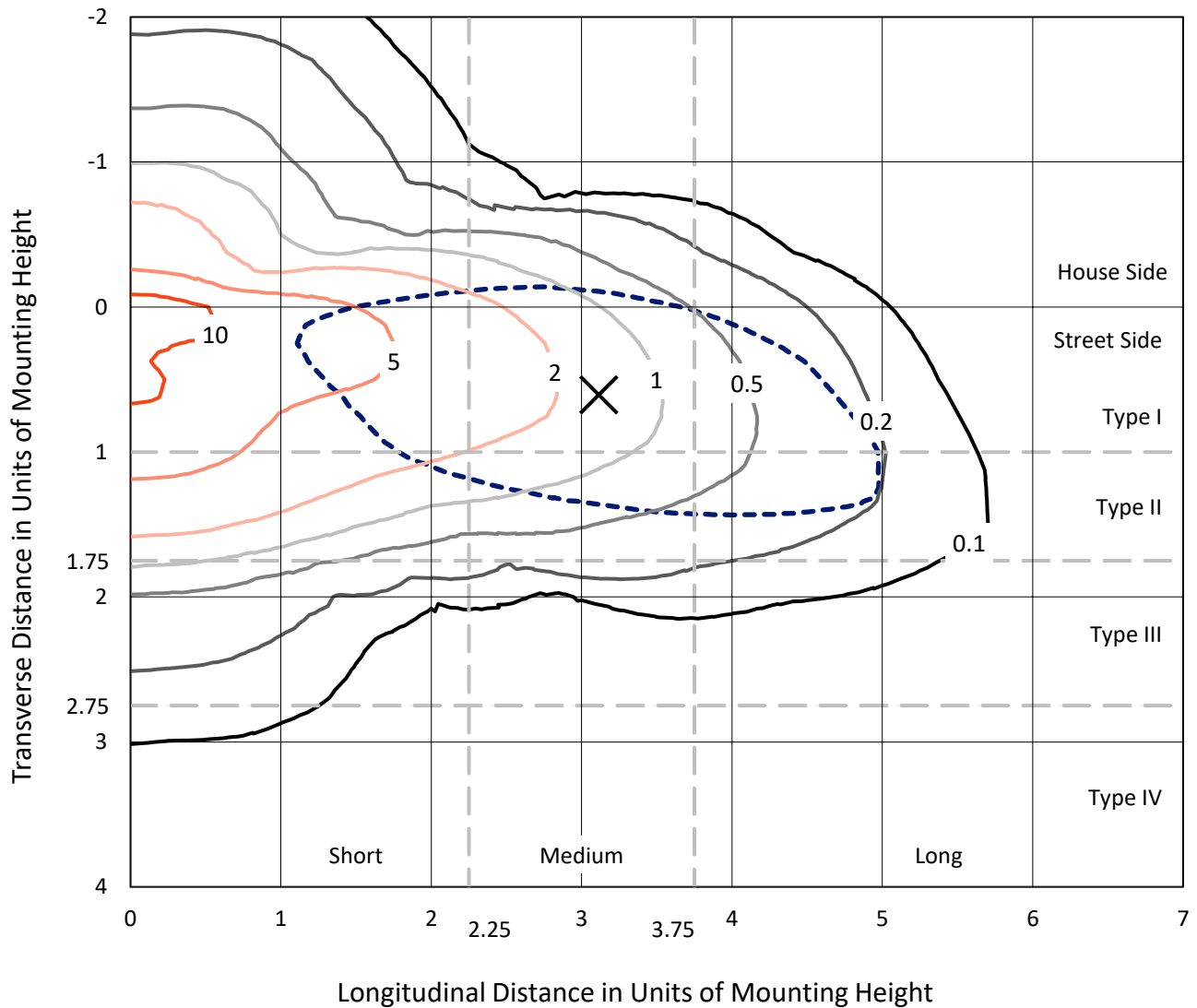
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

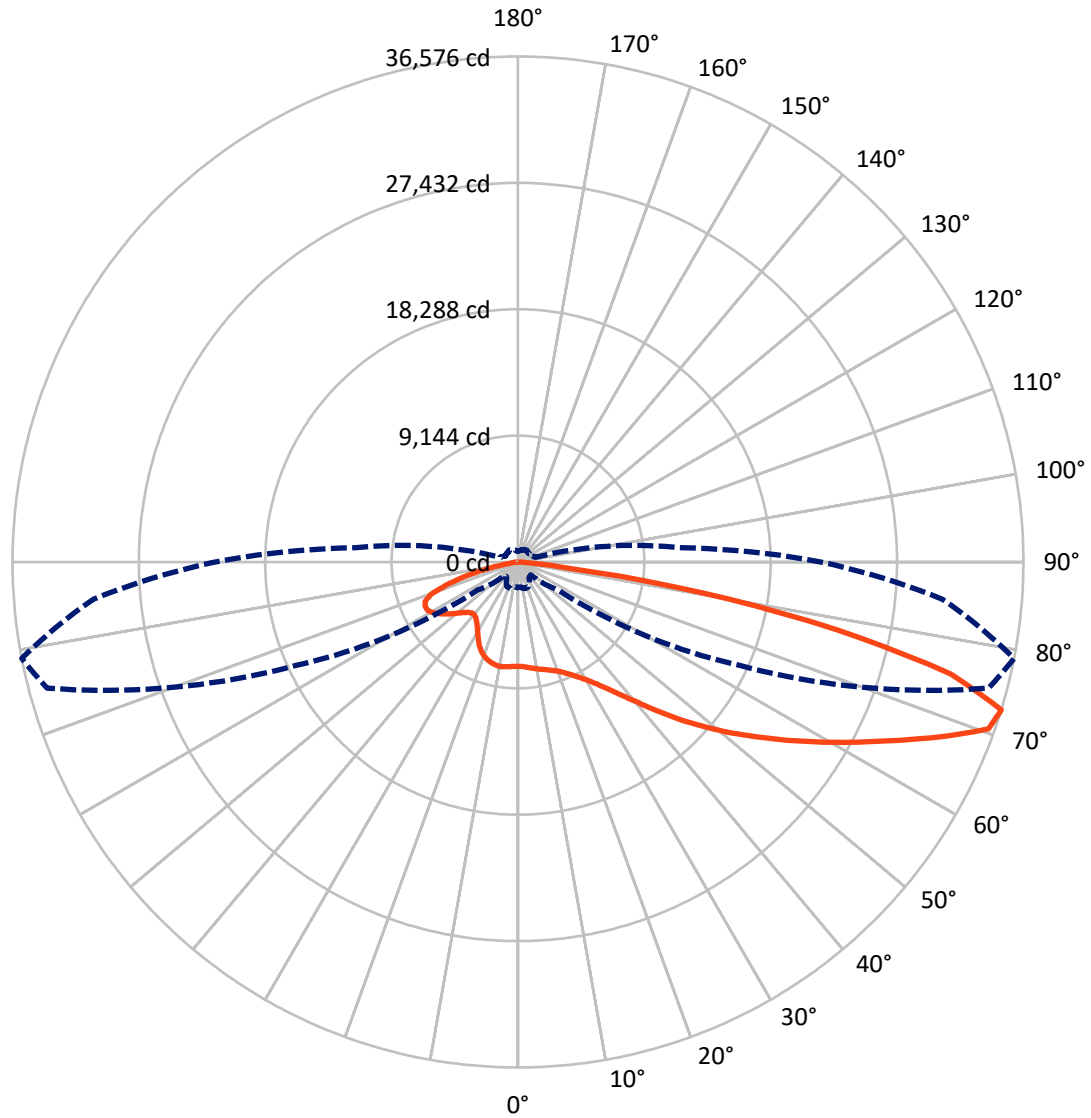
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	8274.5	0.0	8274.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29327.5	0.0	29327.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	37602.0	0.0	37602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.2	1.8
10°-20°	1791.4	4.8
20°-30°	2890.5	7.7
30°-40°	4338.3	11.5
40°-50°	6154.1	16.4
50°-60°	7771.8	20.7
60°-70°	7893.3	21.0
70°-80°	5379.6	14.3
80°-90°	698.0	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°	37602.0	100.0
0°-180°	37602.0	100.0

Coefficient of Utilization



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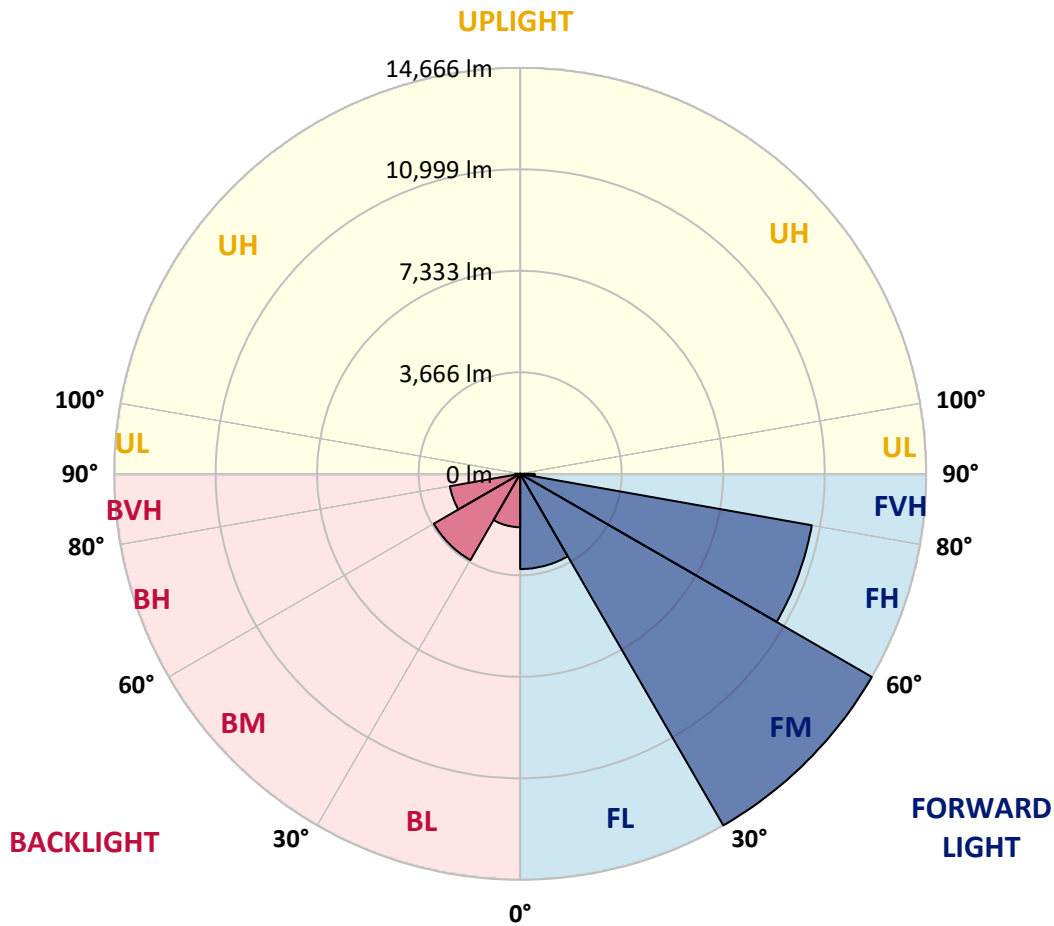
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3439.7	9.1			
FM (30°-60°)	14665.5	39.0			
FH (60°-80°)	10696.5	28.4			G4/12000
FVH (80°-90°)	525.8	1.4			G4/750
BL (0°-30°)	1927.4	5.1	B3/2500		
BM (30°-60°)	3598.5	9.6	B3/5000		
BH (60°-80°)	2576.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	172.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2
2.5°	7552.2	7516.4	7538.3	7530.3	7540.3	7552.2	7556.2	7562.2	7582.1	7580.1
5°	7536.3	7500.5	7530.3	7520.4	7546.3	7574.1	7598.0	7619.8	7651.7	7665.6
7.5°	7502.5	7478.6	7508.5	7538.3	7586.0	7627.8	7661.6	7711.3	7757.1	7765.0
10°	7305.6	7287.7	7357.3	7434.9	7566.1	7679.5	7753.1	7810.8	7860.5	7868.5
12.5°	7100.7	7078.8	7156.4	7261.8	7474.7	7679.5	7834.7	7910.2	7954.0	7979.9
15°	7066.9	7049.0	7092.8	7184.3	7361.3	7625.8	7890.4	8029.6	8067.4	8097.2
17.5°	7230.0	7196.2	7214.1	7245.9	7349.3	7576.1	7934.1	8164.8	8222.5	8254.3
20°	7607.9	7560.2	7532.3	7468.7	7450.8	7584.0	7930.1	8327.9	8403.5	8443.3
22.5°	8111.1	8079.3	8019.6	7858.5	7683.5	7681.5	8005.7	8536.8	8678.0	8715.8
25°	8719.8	8672.0	8596.4	8377.7	8041.5	7874.4	8133.0	8803.3	9040.0	9049.9
27.5°	9419.9	9348.3	9244.9	8956.5	8503.0	8176.8	8327.9	9109.6	9455.7	9451.7
30°	10157.8	10086.2	9976.8	9626.7	9055.9	8584.5	8598.4	9439.8	9949.0	9927.1
32.5°	10696.8	10643.1	10621.2	10350.7	9692.4	9065.8	8908.7	9805.8	10557.6	10537.7
35°	11110.5	11040.9	11066.8	10929.5	10386.5	9604.9	9288.6	10241.3	11297.5	11295.5
37.5°	11520.3	11458.6	11480.5	11389.0	11029.0	10289.1	9752.1	10774.4	12214.4	12258.2
40°	11894.2	11828.6	11916.1	11830.6	11528.2	11017.1	10279.1	11377.1	13276.6	13360.1
42.5°	12119.0	12067.2	12212.4	12214.4	11961.8	11631.7	10857.9	12041.4	14505.8	14692.7
45°	12196.5	12178.6	12397.4	12443.2	12345.7	11987.7	11379.1	12765.4	15830.4	16164.6
47.5°	12113.0	12079.2	12381.5	12550.6	12628.1	12154.8	11810.7	13549.0	17182.9	17672.2
50°	11691.3	11625.7	12075.2	12431.2	12707.7	12264.2	12246.3	14454.0	18720.4	19255.5
52.5°	10933.5	10883.8	11395.0	12013.5	12532.7	12317.9	12735.5	15442.6	20180.4	20872.5
55°	9964.9	9899.2	10462.1	11269.7	12097.1	12300.0	13224.8	16548.5	21902.8	22605.0
57.5°	8429.4	8298.1	9010.2	9964.9	11387.0	12278.1	13734.0	17648.4	23653.2	24494.5
60°	6189.8	5994.8	6868.0	7999.7	9998.7	12065.3	14364.5	18881.5	25753.5	26511.3
62.5°	3604.1	3490.7	4061.5	5117.7	7536.3	10812.2	14718.6	20315.6	27818.1	28613.7
65°	2798.5	2766.7	2816.4	2898.0	4194.8	8095.2	13626.6	21713.9	30443.6	31000.5
67.5°	2559.8	2536.0	2557.9	2404.7	2128.2	4509.1	10780.4	22067.9	33256.0	33594.2
70°	2275.4	2247.6	2319.2	2187.9	1674.7	2050.7	6965.5	20783.0	35493.7	36128.1
72.5°	1853.7	1821.9	1989.0	1929.3	1410.2	1316.7	3498.6	17729.9	35259.0	36575.7
75°	1424.1	1406.2	1605.1	1654.8	1149.6	1036.3	1678.7	13179.1	31028.4	32355.0
77.5°	1105.9	1092.0	1193.4	1374.4	926.9	803.6	1032.3	8359.8	23382.6	23615.4
80°	829.4	789.6	883.1	1064.1	722.0	586.8	700.1	4875.0	14780.2	13397.9
82.5°	519.1	499.2	576.8	710.1	509.2	403.8	455.5	2693.1	5923.2	3488.7
85°	296.4	288.4	314.3	405.8	276.5	232.7	260.6	1189.4	1082.0	743.9
87.5°	119.3	115.4	143.2	181.0	101.4	85.5	91.5	286.4	238.7	220.8
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°
7548.2	0°	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2
7578.1	2.5°	7570.1	7570.1	7542.3	7498.5	7448.8	7417.0	7365.3	7351.3	7297.6	7281.7
7645.7	5°	7661.6	7645.7	7560.2	7436.9	7267.8	7112.7	6941.6	6834.2	6683.0	6629.3
7779.0	7.5°	7777.0	7733.2	7586.0	7315.5	6961.5	6613.4	6251.4	5976.9	5714.4	5620.9
7888.4	10°	7882.4	7820.7	7570.1	7096.7	6484.1	5881.5	5304.7	4900.9	4594.6	4469.3
8009.7	12.5°	7987.8	7874.4	7464.7	6732.8	5805.9	4988.4	4373.8	4059.5	3870.6	3719.4
8109.1	15°	8087.3	7928.1	7301.6	6245.5	5062.0	4232.6	3779.1	3528.5	3377.3	3277.9
8254.3	17.5°	8202.6	7973.9	7057.0	5626.9	4353.9	3709.5	3339.5	3188.4	3158.5	3146.6
8453.2	20°	8363.7	8015.7	6734.7	4934.7	3832.8	3291.8	3100.8	3086.9	3084.9	3079.0
8691.9	22.5°	8536.8	8065.4	6309.1	4306.2	3389.3	3031.2	2997.4	2969.6	2951.7	2949.7
8980.3	25°	8741.6	8081.3	5776.0	3791.0	3011.3	2907.9	2868.1	2826.4	2814.4	2814.4
9308.5	27.5°	8940.5	8027.6	5155.5	3343.5	2798.5	2794.5	2742.8	2728.9	2726.9	2732.9
9682.4	30°	9139.4	7926.2	4538.9	2929.8	2675.2	2675.2	2657.3	2667.2	2675.2	2695.1
10195.6	32.5°	9408.0	7818.7	4023.7	2623.5	2567.8	2547.9	2565.8	2585.7	2593.7	2619.5
10869.9	35°	9801.8	7743.2	3614.0	2456.4	2456.4	2430.6	2440.5	2436.5	2418.6	2406.7
11685.4	37.5°	10322.9	7739.2	3275.9	2378.8	2362.9	2359.0	2360.9	2335.1	2265.5	2181.9
12671.9	40°	10949.4	7846.6	3015.3	2325.1	2313.2	2337.1	2325.1	2255.5	2064.6	1919.4
13885.2	42.5°	11790.8	8152.9	2848.2	2259.5	2295.3	2325.1	2277.4	2036.7	1907.4	1810.0
15267.5	45°	12781.3	8650.1	2762.7	2189.9	2261.5	2297.3	2066.6	1961.2	1857.7	1740.4
16775.2	47.5°	13903.1	9276.7	2742.8	2124.2	2185.9	2207.8	1977.1	1929.3	1812.0	1684.7
18290.8	50°	15124.3	10018.6	2796.5	2046.7	2076.5	2000.9	1947.2	1903.5	1782.1	1656.8
19844.2	52.5°	16387.3	10836.1	2903.9	1941.3	1967.1	1883.6	1935.3	1897.5	1764.2	1595.2
21449.3	55°	17628.5	11659.5	3007.4	1817.9	1855.7	1778.2	1901.5	1873.6	1682.7	1491.7
23161.9	57.5°	18889.5	12479.0	3108.8	1708.5	1748.3	1676.7	1847.8	1810.0	1591.2	1396.3
25031.5	60°	20200.3	13274.6	3156.5	1603.1	1631.0	1583.2	1766.2	1700.6	1487.8	1298.8
26869.4	62.5°	21427.5	13936.9	3079.0	1497.7	1515.6	1495.7	1658.8	1571.3	1384.3	1189.4
28784.8	65°	22658.7	14330.7	2840.3	1394.3	1398.3	1388.3	1507.7	1432.1	1263.0	1093.9
30461.5	67.5°	23774.5	14551.5	2460.4	1282.9	1273.0	1269.0	1366.4	1280.9	1145.7	998.5
31736.4	70°	24011.2	13990.6	1879.6	1151.6	1151.6	1141.7	1211.3	1123.8	1016.4	897.0
30823.5	72.5°	21930.7	11768.9	1334.6	1002.5	1018.4	998.5	1056.2	982.6	885.1	805.5
26565.0	75°	17684.2	8630.3	970.6	849.3	877.1	843.3	897.0	845.3	761.8	759.8
18306.7	77.5°	12150.8	5336.5	704.1	700.1	720.0	676.3	737.9	710.1	634.5	600.7
7967.9	80°	5185.3	2128.2	513.2	541.0	541.0	501.2	572.8	580.8	515.2	499.2
1537.5	82.5°	1032.3	604.7	360.0	371.9	350.1	338.1	405.8	449.5	620.6	690.2
463.4	85°	310.3	222.8	216.8	202.9	179.0	181.0	238.7	451.5	556.9	318.2
153.2	87.5°	85.5	55.7	57.7	45.7	37.8	49.7	81.5	342.1	187.0	79.6
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>
7548.2
7307.6
6669.1
5632.8
4497.1
3769.1
3295.8
3154.5
3098.9
2971.6
2826.4
2748.8
2709.0
2641.4
2434.5
2183.9
1915.4
1806.0
1732.4
1674.7
1642.9
1583.2
1481.8
1392.3
1292.8
1187.4
1082.0
986.5
893.1
781.7
684.2
562.9
499.2
692.2
274.5
67.6
0.0

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