

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: P953824

Luminaire Tested: **GALN-SB7B-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953824
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-SB7B-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39804 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

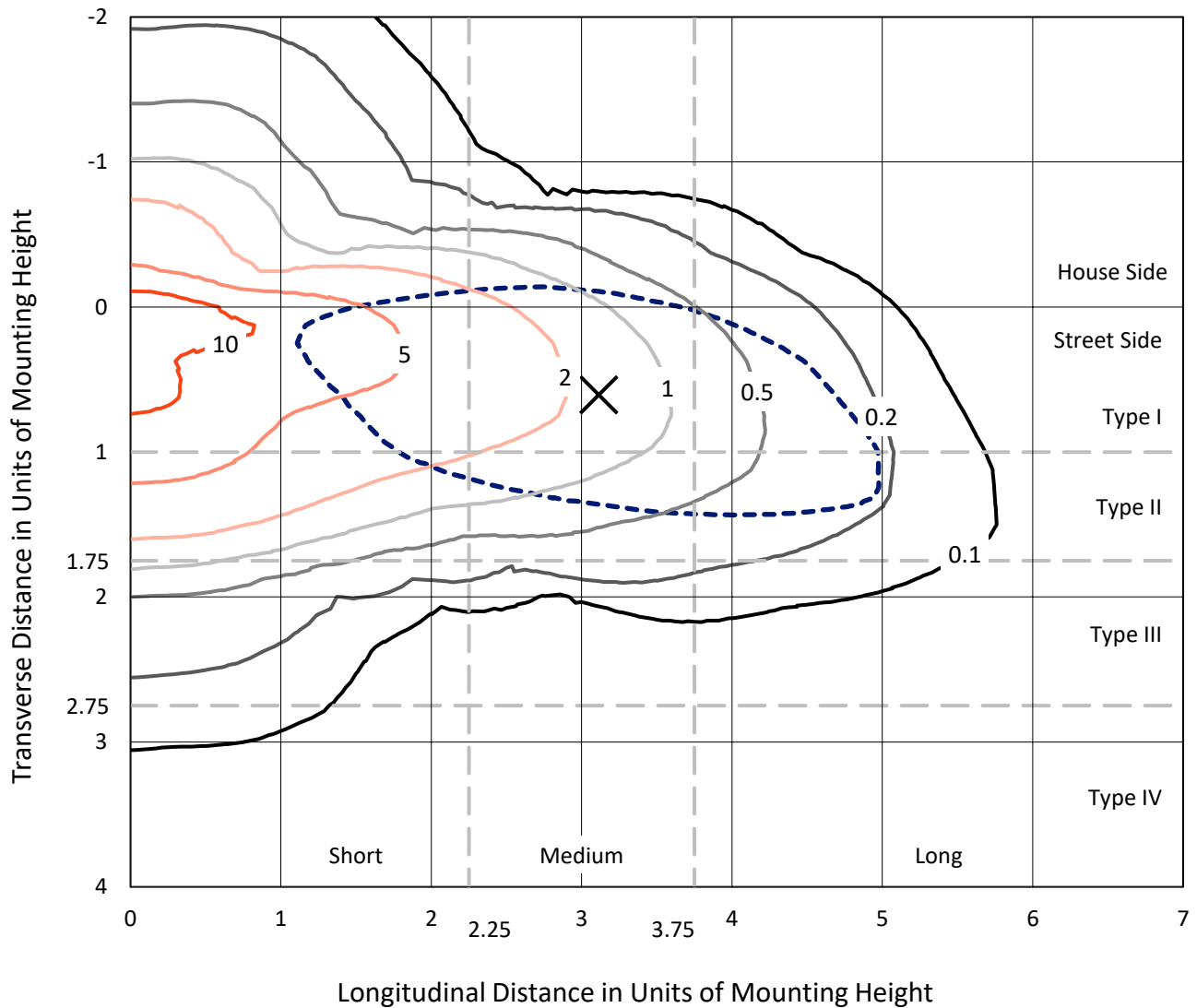
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

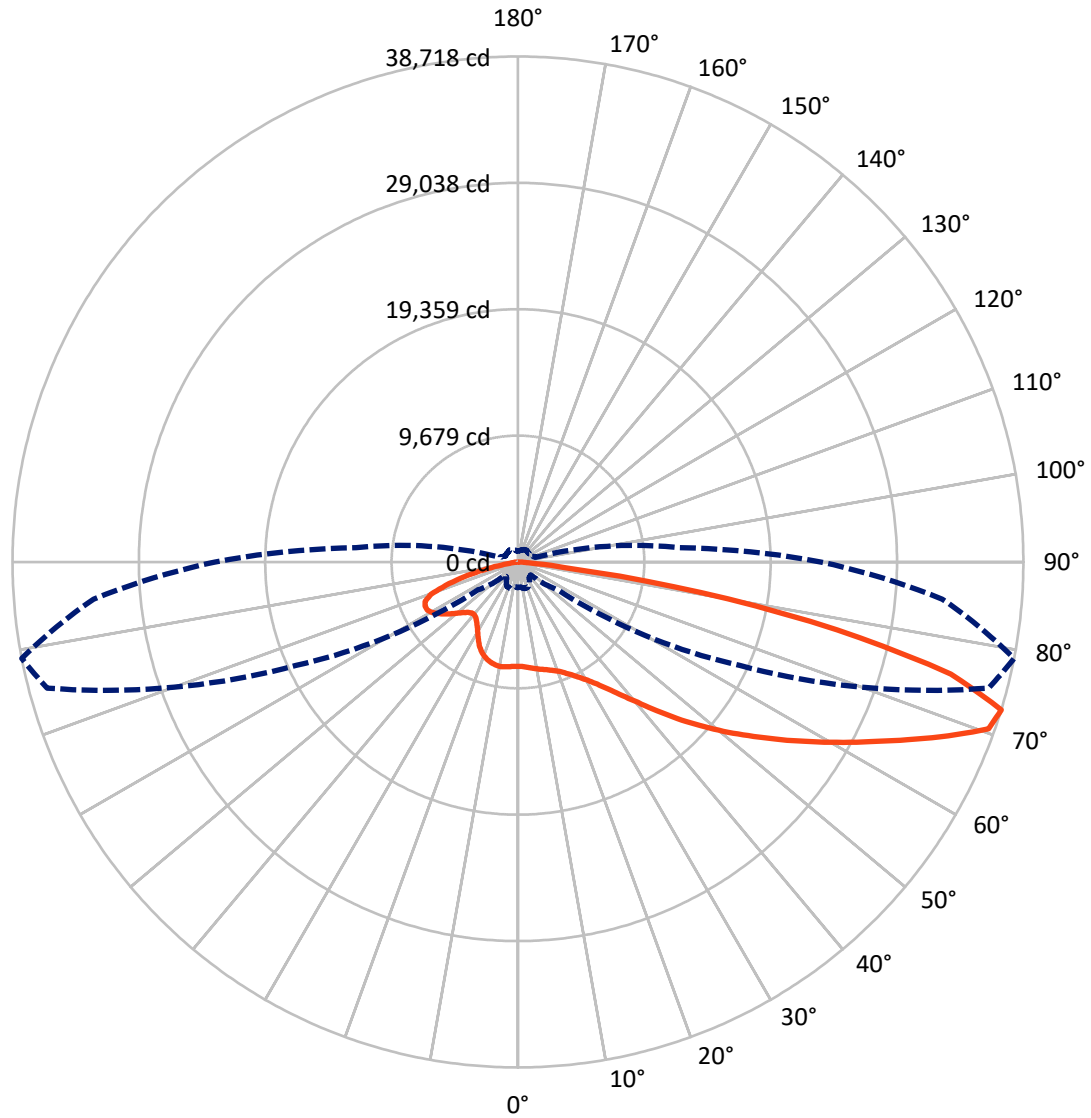
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	8759.1	0.0	8759.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	31044.9	0.0	31044.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	39804.0	0.0	39804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.3	1.8
10°-20°	1896.3	4.8
20°-30°	3059.8	7.7
30°-40°	4592.3	11.5
40°-50°	6514.4	16.4
50°-60°	8226.9	20.7
60°-70°	8355.5	21.0
70°-80°	5694.7	14.3
80°-90°	738.8	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°	39804.0	100.0
0°-180°	39804.0	100.0

Coefficient of Utilization



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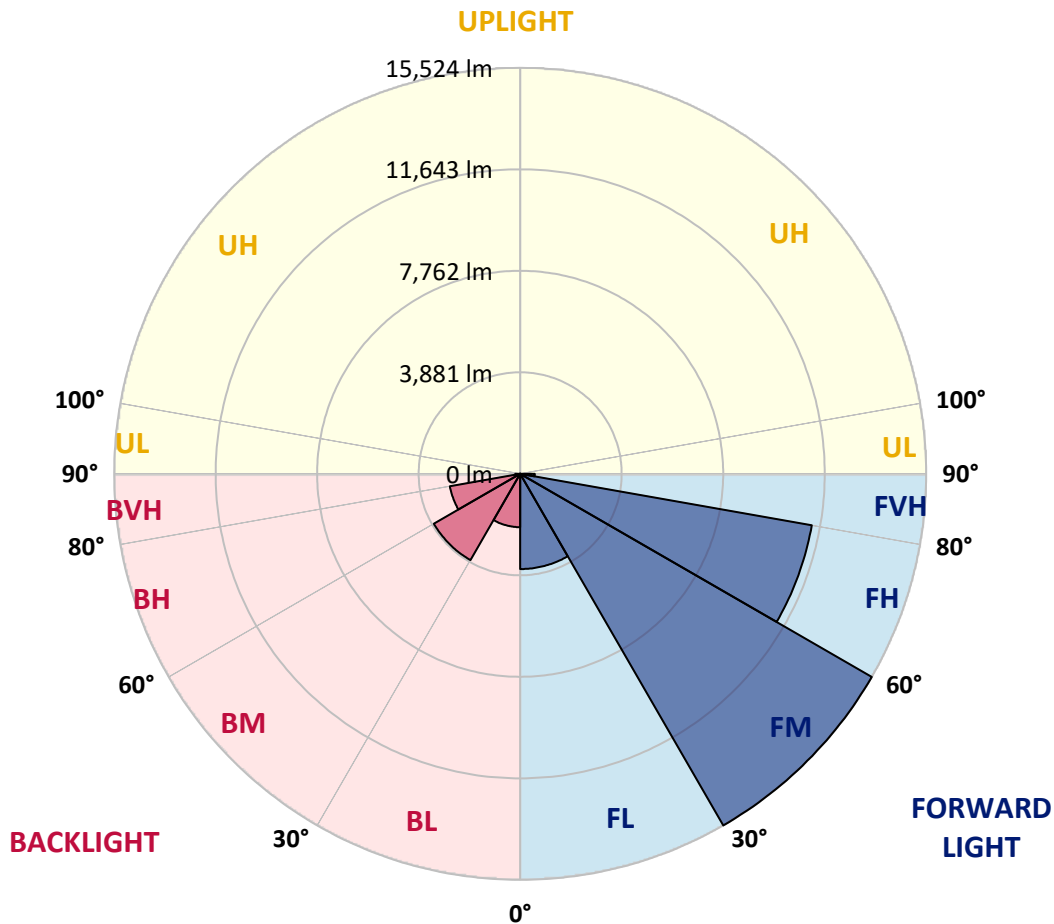
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3641.1	9.1			
FM (30°-60°)	15524.4	39.0			
FH (60°-80°)	11322.9	28.4			G4/12000
FVH (80°-90°)	556.6	1.4			G4/750
BL (0°-30°)	2040.2	5.1	B3/2500		
BM (30°-60°)	3809.3	9.6	B3/5000		
BH (60°-80°)	2727.3	6.9	B4/5000		G4/5000
BVH (80°-90°)	182.3	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°	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3
2.5°	7994.5	7956.6	7979.7	7971.3	7981.9	7994.5	7998.7	8005.0	8026.1	8024.0
5°	7977.6	7939.7	7971.3	7960.8	7988.2	8017.6	8042.9	8066.1	8099.8	8114.5
7.5°	7941.8	7916.6	7948.2	7979.7	8030.3	8074.5	8110.3	8162.9	8211.3	8219.8
10°	7733.4	7714.5	7788.1	7870.3	8009.2	8129.2	8207.1	8268.2	8320.8	8329.3
12.5°	7516.5	7493.4	7575.5	7687.1	7912.4	8129.2	8293.5	8373.5	8419.8	8447.2
15°	7480.7	7461.8	7508.1	7605.0	7792.4	8072.4	8352.4	8499.8	8539.8	8571.4
17.5°	7653.4	7617.6	7636.6	7670.2	7779.7	8019.8	8398.7	8643.0	8704.0	8737.7
20°	8053.4	8002.9	7973.4	7906.1	7887.1	8028.2	8394.5	8815.6	8895.6	8937.7
22.5°	8586.1	8552.4	8489.3	8318.7	8133.4	8131.3	8474.5	9036.7	9186.2	9226.2
25°	9230.4	9179.9	9099.9	8868.3	8512.4	8335.6	8609.3	9318.8	9569.4	9579.9
27.5°	9971.5	9895.7	9786.2	9481.0	9000.9	8655.6	8815.6	9643.1	10009.4	10005.2
30°	10752.7	10676.9	10561.1	10190.5	9586.2	9087.2	9102.0	9992.6	10531.6	10508.4
32.5°	11323.2	11266.4	11243.2	10956.9	10260.0	9596.8	9430.4	10380.0	11175.9	11154.8
35°	11761.2	11687.5	11714.9	11569.6	10994.8	10167.3	9832.6	10841.1	11959.1	11957.0
37.5°	12194.9	12129.6	12152.8	12055.9	11674.9	10891.6	10323.1	11405.4	12929.7	12976.0
40°	12590.7	12521.3	12613.9	12523.4	12203.3	11662.2	10881.1	12043.3	14054.0	14142.5
42.5°	12828.7	12773.9	12927.6	12929.7	12662.3	12312.8	11493.8	12746.5	15355.2	15553.1
45°	12910.8	12891.8	13123.4	13171.8	13068.7	12689.7	12045.4	13512.9	16757.5	17111.2
47.5°	12822.3	12786.5	13106.6	13285.5	13367.7	12866.6	12502.3	14342.5	18189.2	18707.1
50°	12376.0	12306.5	12782.3	13159.2	13451.9	12982.4	12963.4	15300.5	19816.7	20383.1
52.5°	11573.8	11521.2	12062.3	12717.1	13266.6	13039.2	13481.4	16346.9	21362.1	22094.8
55°	10548.4	10478.9	11074.8	11929.6	12805.5	13020.3	13999.3	17517.5	23185.5	23928.7
57.5°	8923.0	8784.0	9537.8	10548.4	12053.8	12997.1	14538.3	18681.9	25038.3	25928.9
60°	6552.2	6345.9	7270.2	8468.2	10584.2	12771.8	15205.7	19987.3	27261.7	28063.9
62.5°	3815.1	3695.1	4299.4	5417.4	7977.6	11445.4	15580.5	21505.3	29447.2	30289.4
65°	2962.4	2928.7	2981.4	3067.7	4440.4	8569.3	14424.6	22985.5	32226.4	32815.9
67.5°	2709.7	2684.5	2707.6	2545.5	2252.9	4773.1	11411.7	23360.2	35203.5	35561.5
70°	2408.7	2379.2	2455.0	2316.0	1772.8	2170.7	7373.4	22000.1	37572.2	38243.8
72.5°	1962.3	1928.6	2105.5	2042.3	1492.8	1393.8	3703.5	18768.2	37323.7	38717.6
75°	1507.5	1488.6	1699.1	1751.8	1217.0	1097.0	1777.0	13950.9	32845.4	34249.7
77.5°	1170.6	1155.9	1263.3	1454.9	981.2	850.6	1092.7	8849.3	24752.0	24998.3
80°	878.0	835.9	934.8	1126.4	764.3	621.1	741.1	5160.5	15645.8	14182.5
82.5°	549.5	528.5	610.6	751.7	539.0	427.4	482.2	2850.8	6270.1	3693.0
85°	313.7	305.3	332.7	429.5	292.7	246.3	275.8	1259.1	1145.4	787.4
87.5°	126.3	122.1	151.6	191.6	107.4	90.5	96.9	303.2	252.7	233.7
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°
7990.3	0°	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3	7990.3
8021.9	2.5°	8013.4	8013.4	7984.0	7937.6	7885.0	7851.3	7796.6	7781.8	7725.0	7708.1
8093.4	5°	8110.3	8093.4	8002.9	7872.4	7693.4	7529.2	7348.1	7234.4	7074.4	7017.5
8234.5	7.5°	8232.4	8186.1	8030.3	7743.9	7369.2	7000.7	6617.5	6326.9	6049.0	5950.1
8350.3	10°	8344.0	8278.7	8013.4	7512.3	6863.8	6225.9	5615.3	5187.9	4863.6	4731.0
8478.7	12.5°	8455.6	8335.6	7901.8	7127.0	6145.9	5280.5	4629.9	4297.3	4097.3	3937.2
8584.0	15°	8560.9	8392.4	7729.2	6611.2	5358.4	4480.4	4000.4	3735.1	3575.1	3469.8
8737.7	17.5°	8683.0	8440.8	7470.2	5956.4	4608.9	3926.7	3535.1	3375.1	3343.5	3330.9
8948.3	20°	8853.5	8485.1	7129.1	5223.7	4057.2	3484.6	3282.4	3267.7	3265.6	3259.3
9200.9	22.5°	9036.7	8537.7	6678.6	4558.4	3587.7	3208.7	3172.9	3143.5	3124.5	3122.4
9506.2	25°	9253.6	8554.5	6114.3	4013.0	3187.7	3078.2	3036.1	2991.9	2979.2	2979.2
9853.6	27.5°	9464.1	8497.7	5457.4	3539.3	2962.4	2958.2	2903.4	2888.7	2886.6	2892.9
10249.4	30°	9674.7	8390.3	4804.7	3101.4	2831.9	2831.9	2812.9	2823.4	2831.9	2852.9
10792.7	32.5°	9958.9	8276.6	4259.4	2777.1	2718.2	2697.1	2716.1	2737.1	2745.5	2772.9
11506.4	35°	10375.8	8196.6	3825.6	2600.3	2600.3	2572.9	2583.4	2579.2	2560.3	2547.6
12369.7	37.5°	10927.4	8192.4	3467.7	2518.1	2501.3	2497.1	2499.2	2471.8	2398.1	2309.7
13414.0	40°	11590.6	8306.1	3191.9	2461.3	2448.7	2473.9	2461.3	2387.6	2185.5	2031.8
14698.3	42.5°	12481.3	8630.3	3015.0	2391.8	2429.7	2461.3	2410.8	2156.0	2019.1	1916.0
16161.6	45°	13529.8	9156.7	2924.5	2318.1	2393.9	2431.8	2187.6	2076.0	1966.5	1842.3
17757.6	47.5°	14717.3	9819.9	2903.4	2248.6	2313.9	2337.1	2092.8	2042.3	1918.1	1783.3
19361.9	50°	16010.0	10605.3	2960.3	2166.5	2198.1	2118.1	2061.3	2014.9	1886.5	1753.9
21006.3	52.5°	17347.0	11470.6	3074.0	2054.9	2082.3	1993.9	2048.6	2008.6	1867.6	1688.6
22705.4	55°	18660.8	12342.3	3183.5	1924.4	1964.4	1882.3	2012.8	1983.4	1781.2	1579.1
24518.2	57.5°	19995.7	13209.7	3290.9	1808.6	1850.7	1774.9	1956.0	1916.0	1684.4	1478.0
26497.4	60°	21383.2	14051.9	3341.4	1697.0	1726.5	1676.0	1869.7	1800.2	1574.9	1374.9
28442.9	62.5°	22682.3	14753.1	3259.3	1585.4	1604.4	1583.3	1756.0	1663.3	1465.4	1259.1
30470.4	65°	23985.6	15169.9	3006.6	1475.9	1480.1	1469.6	1595.9	1515.9	1337.0	1158.0
32245.3	67.5°	25166.7	15403.6	2604.5	1358.0	1347.5	1343.3	1446.5	1355.9	1212.8	1056.9
33594.9	70°	25417.3	14809.9	1989.7	1219.1	1219.1	1208.5	1282.2	1189.6	1075.9	949.6
32628.5	72.5°	23215.0	12458.1	1412.8	1061.2	1078.0	1056.9	1118.0	1040.1	936.9	852.7
28120.7	75°	18719.8	9135.7	1027.5	899.0	928.5	892.7	949.6	894.8	806.4	804.3
19378.8	77.5°	12862.3	5649.0	745.3	741.1	762.2	715.9	781.1	751.7	671.6	635.9
8434.5	80°	5489.0	2252.9	543.2	572.7	572.7	530.6	606.4	614.8	545.3	528.5
1627.5	82.5°	1092.7	640.1	381.1	393.7	370.6	357.9	429.5	475.8	656.9	730.6
490.6	85°	328.5	235.8	229.5	214.8	189.5	191.6	252.7	477.9	589.5	336.9
162.1	87.5°	90.5	59.0	61.1	48.4	40.0	52.6	86.3	362.1	197.9	84.2
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>
7990.3
7735.5
7059.7
5962.7
4760.5
3989.9
3488.8
3339.3
3280.3
3145.6
2991.9
2909.8
2867.7
2796.1
2577.1
2311.8
2027.6
1911.8
1833.9
1772.8
1739.1
1676.0
1568.6
1473.8
1368.6
1257.0
1145.4
1044.3
945.4
827.5
724.3
595.8
528.5
732.7
290.6
71.6
0.0

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