

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: P950968

Luminaire Tested: **GALN-SB5B-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950968
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-SB5B-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 28273 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

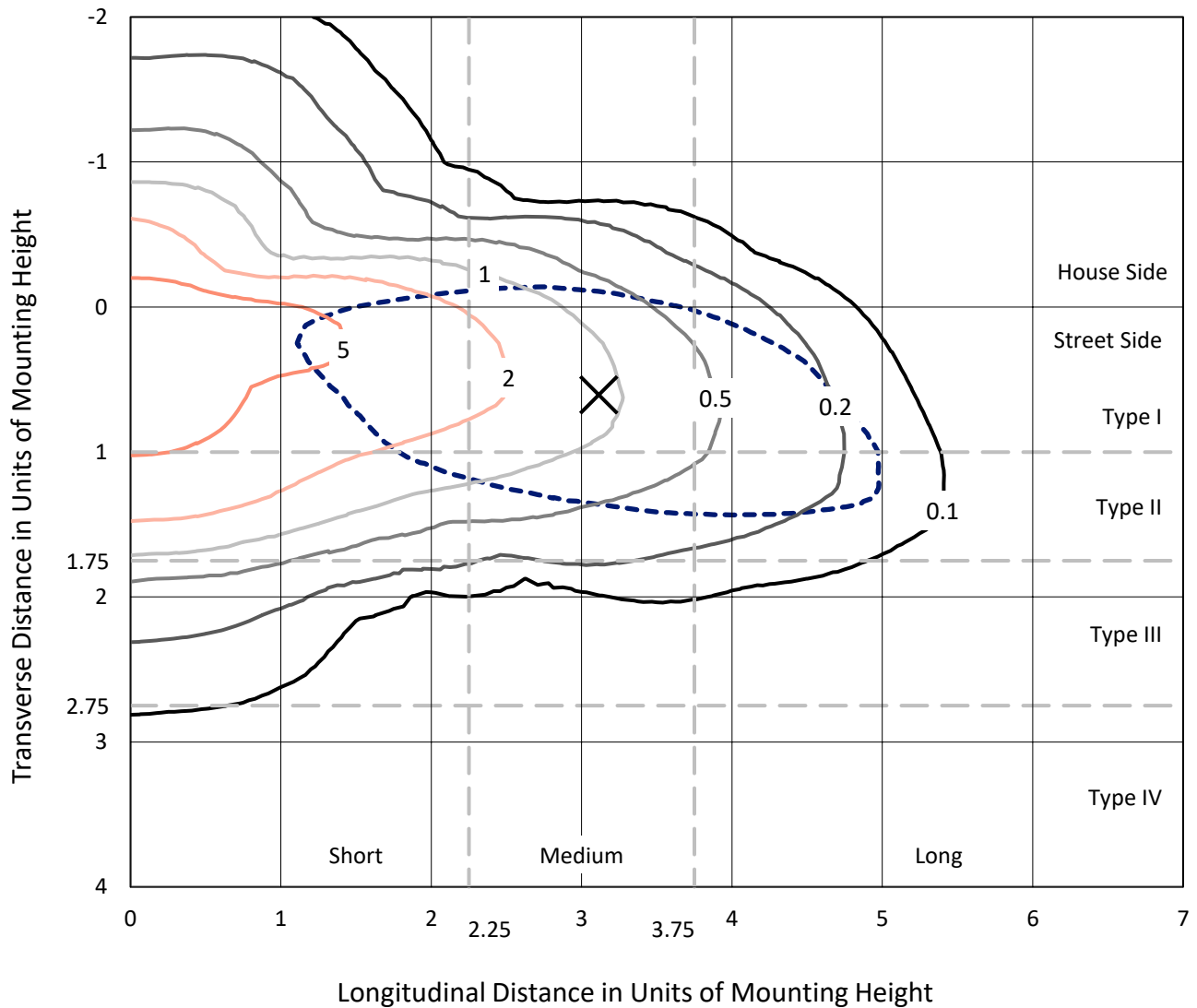
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

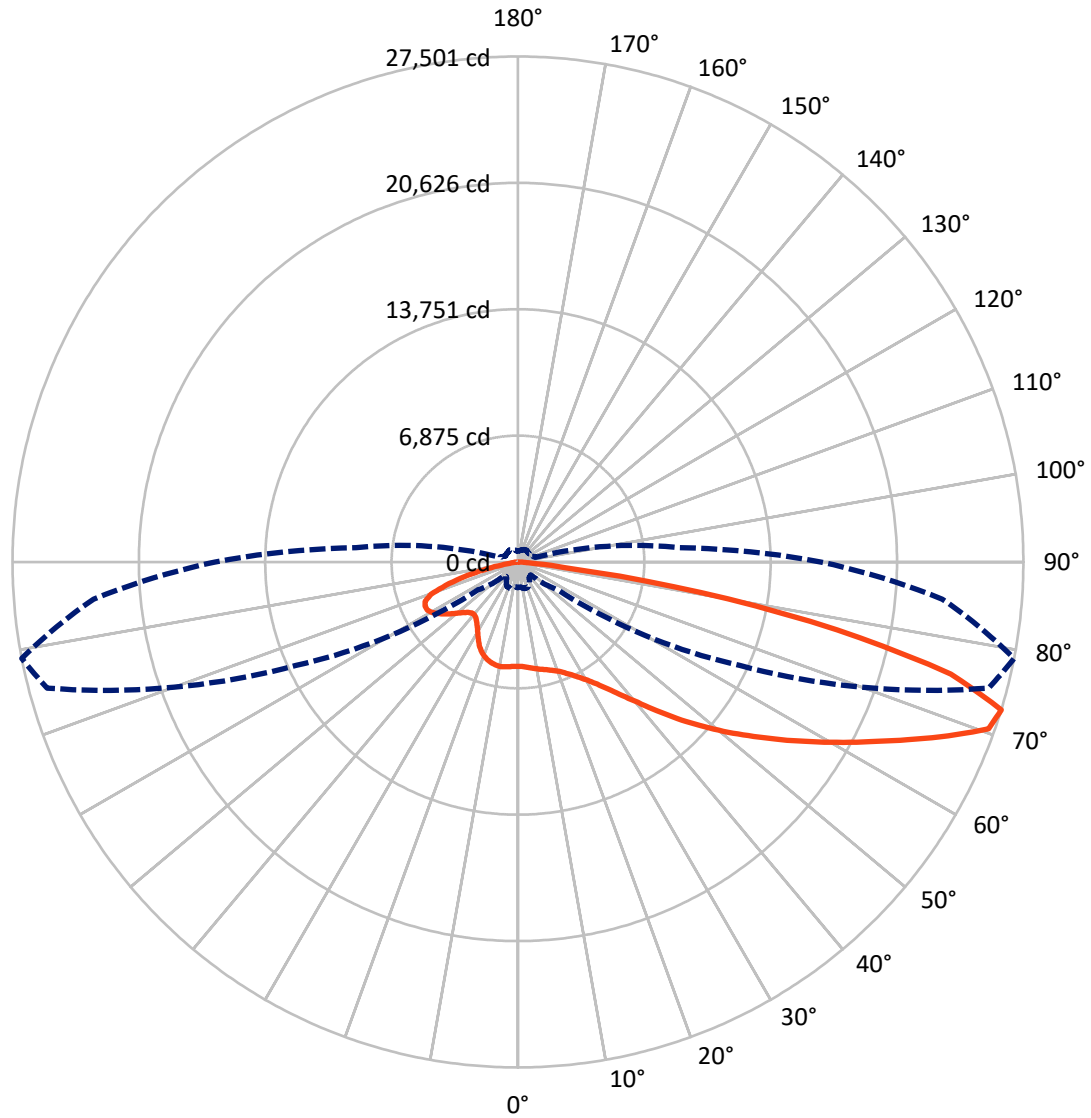
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	6221.6	0.0	6221.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	22051.4	0.0	22051.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	28273.0	0.0	28273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.2	1.8
10°-20°	1346.9	4.8
20°-30°	2173.4	7.7
30°-40°	3261.9	11.5
40°-50°	4627.2	16.4
50°-60°	5843.6	20.7
60°-70°	5935.0	21.0
70°-80°	4044.9	14.3
80°-90°	524.8	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°	28273.0	100.0
0°-180°	28273.0	100.0



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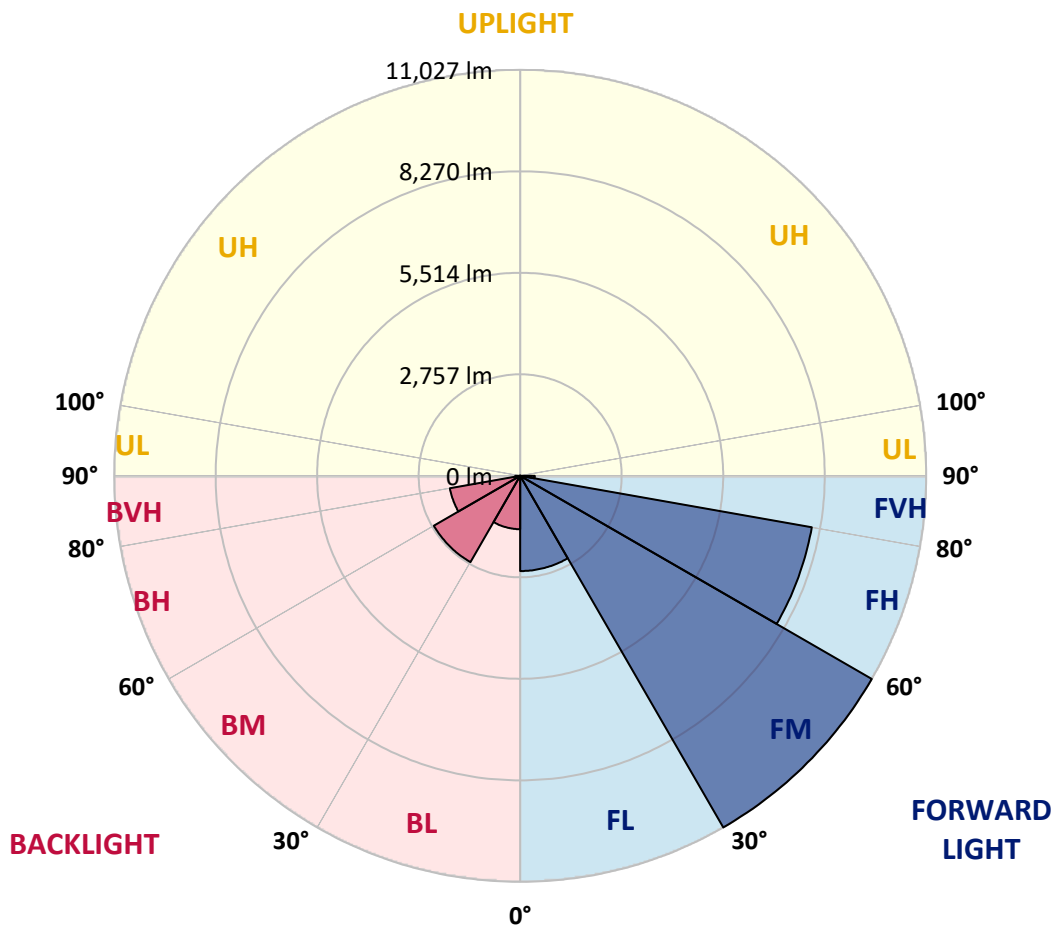
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2586.3	9.1			
FM (30°-60°)	11027.0	39.0			
FH (60°-80°)	8042.7	28.4			G4/12000
FVH (80°-90°)	395.3	1.4			G3/500
BL (0°-30°)	1449.2	5.1	B3/2500		
BM (30°-60°)	2705.7	9.6	B3/5000		
BH (60°-80°)	1937.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	129.5	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°	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5
2.5°	5678.5	5651.6	5668.1	5662.1	5669.6	5678.5	5681.5	5686.0	5701.0	5699.5
5°	5666.6	5639.6	5662.1	5654.6	5674.0	5695.0	5712.9	5729.4	5753.3	5763.8
7.5°	5641.1	5623.2	5645.6	5668.1	5704.0	5735.4	5760.8	5798.2	5832.6	5838.5
10°	5493.1	5479.6	5532.0	5590.3	5689.0	5774.2	5829.6	5872.9	5910.3	5916.3
12.5°	5339.0	5322.6	5380.9	5460.2	5620.2	5774.2	5890.9	5947.7	5980.6	6000.1
15°	5313.6	5300.2	5333.1	5401.9	5535.0	5733.9	5932.8	6037.5	6065.9	6088.3
17.5°	5436.3	5410.8	5424.3	5448.2	5526.0	5696.5	5965.7	6139.2	6182.5	6206.4
20°	5720.4	5684.5	5663.6	5615.7	5602.3	5702.5	5962.7	6261.8	6318.6	6348.5
22.5°	6098.8	6074.8	6030.0	5908.8	5777.2	5775.7	6019.5	6418.8	6525.0	6553.4
25°	6556.4	6520.5	6463.7	6299.2	6046.4	5920.8	6115.2	6619.2	6797.2	6804.7
27.5°	7082.8	7029.0	6951.2	6734.4	6393.4	6148.1	6261.8	6849.5	7109.7	7106.8
30°	7637.7	7583.8	7501.6	7238.4	6809.1	6454.7	6465.2	7097.8	7480.6	7464.2
32.5°	8043.0	8002.6	7986.1	7782.7	7287.7	6816.6	6698.5	7373.0	7938.3	7923.3
35°	8354.0	8301.7	8321.1	8217.9	7809.7	7221.9	6984.1	7700.5	8494.6	8493.1
37.5°	8662.1	8615.7	8632.2	8563.4	8292.7	7736.4	7332.6	8101.3	9184.0	9217.0
40°	8943.3	8893.9	8959.7	8895.4	8668.1	8283.7	7728.9	8554.4	9982.7	10045.5
42.5°	9112.3	9073.4	9182.6	9184.0	8994.1	8745.9	8164.1	9053.9	10906.9	11047.5
45°	9170.6	9157.1	9321.6	9356.0	9282.8	9013.6	8555.9	9598.3	11902.9	12154.2
47.5°	9107.8	9082.4	9309.7	9436.8	9495.1	9139.2	8880.5	10187.5	12919.9	13287.8
50°	8790.7	8741.4	9079.4	9347.1	9554.9	9221.4	9208.0	10868.0	14075.9	14478.2
52.5°	8220.9	8183.5	8567.9	9033.0	9423.3	9261.8	9575.9	11611.3	15173.6	15694.1
55°	7492.6	7443.3	7866.5	8473.7	9095.8	9248.4	9943.8	12442.8	16468.8	16996.7
57.5°	6338.1	6239.4	6774.8	7492.6	8561.9	9231.9	10326.6	13269.8	17784.8	18417.5
60°	4654.1	4507.5	5164.1	6015.0	7518.0	9071.9	10800.7	14197.1	19364.1	19933.9
62.5°	2709.9	2624.7	3053.9	3848.0	5666.6	8129.7	11066.9	15275.3	20916.5	21514.7
65°	2104.2	2080.3	2117.7	2179.0	3154.1	6086.8	10245.9	16326.7	22890.6	23309.3
67.5°	1924.7	1906.8	1923.3	1808.1	1600.2	3390.4	8105.8	16592.9	25005.3	25259.5
70°	1710.9	1689.9	1743.8	1645.1	1259.2	1541.9	5237.3	15626.8	26687.7	27164.8
72.5°	1393.8	1369.9	1495.5	1450.7	1060.3	990.0	2630.6	13331.2	26511.3	27501.3
75°	1070.8	1057.3	1206.9	1244.3	864.4	779.2	1262.2	9909.4	23330.3	24327.8
77.5°	831.5	821.0	897.3	1033.4	696.9	604.2	776.2	6285.7	17581.4	17756.4
80°	623.6	593.7	664.0	800.1	542.9	441.2	526.4	3665.5	11113.3	10073.9
82.5°	390.3	375.4	433.7	533.9	382.9	303.6	342.5	2024.9	4453.7	2623.2
85°	222.8	216.9	236.3	305.1	207.9	175.0	195.9	894.3	813.6	559.3
87.5°	89.7	86.7	107.7	136.1	76.3	64.3	68.8	215.4	179.5	166.0
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°
5675.5	0°	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5	5675.5
5698.0	2.5°	5692.0	5692.0	5671.0	5638.1	5600.8	5576.8	5537.9	5527.5	5487.1	5475.1
5748.8	5°	5760.8	5748.8	5684.5	5591.8	5464.7	5348.0	5219.4	5138.6	5025.0	4984.6
5849.0	7.5°	5847.5	5814.6	5704.0	5500.6	5234.4	4972.6	4700.5	4494.1	4296.7	4226.4
5931.3	10°	5926.8	5880.4	5692.0	5336.1	4875.4	4422.3	3988.6	3685.0	3454.7	3360.5
6022.5	12.5°	6006.0	5920.8	5612.7	5062.4	4365.5	3750.8	3288.7	3052.4	2910.3	2796.6
6097.3	15°	6080.8	5961.2	5490.1	4696.0	3806.1	3182.5	2841.5	2653.1	2539.4	2464.6
6206.4	17.5°	6167.6	5995.6	5306.1	4230.9	3273.7	2789.2	2511.0	2397.3	2374.9	2365.9
6356.0	20°	6288.7	6027.0	5063.9	3710.4	2881.9	2475.1	2331.5	2321.1	2319.6	2315.1
6535.5	22.5°	6418.8	6064.4	4743.8	3237.8	2548.4	2279.2	2253.8	2232.8	2219.4	2217.9
6752.3	25°	6572.9	6076.3	4343.0	2850.5	2264.2	2186.5	2156.6	2125.1	2116.2	2116.2
6999.1	27.5°	6722.4	6036.0	3876.4	2514.0	2104.2	2101.2	2062.3	2051.9	2050.4	2054.9
7280.2	30°	6872.0	5959.7	3412.8	2202.9	2011.5	2011.5	1998.0	2005.5	2011.5	2026.4
7666.1	32.5°	7073.9	5878.9	3025.5	1972.6	1930.7	1915.8	1929.2	1944.2	1950.2	1969.6
8173.1	35°	7370.0	5822.1	2717.4	1847.0	1847.0	1827.5	1835.0	1832.0	1818.6	1809.6
8786.2	37.5°	7761.8	5819.1	2463.1	1788.7	1776.7	1773.7	1775.2	1755.8	1703.4	1640.6
9528.0	40°	8232.9	5899.9	2267.2	1748.3	1739.3	1757.2	1748.3	1695.9	1552.4	1443.2
10440.3	42.5°	8865.5	6130.2	2141.6	1698.9	1725.8	1748.3	1712.4	1531.4	1434.2	1360.9
11479.7	45°	9610.3	6504.1	2077.3	1646.6	1700.4	1727.3	1553.9	1474.6	1396.8	1308.6
12613.3	47.5°	10453.8	6975.2	2062.3	1597.2	1643.6	1660.0	1486.6	1450.7	1362.4	1266.7
13752.9	50°	11372.0	7533.0	2102.7	1538.9	1561.3	1504.5	1464.1	1431.2	1340.0	1245.8
14920.9	52.5°	12321.7	8147.6	2183.5	1459.6	1479.1	1416.3	1455.2	1426.7	1326.5	1199.4
16127.8	55°	13254.9	8766.8	2261.2	1366.9	1395.3	1337.0	1429.7	1408.8	1265.2	1121.6
17415.4	57.5°	14203.0	9383.0	2337.5	1284.7	1314.6	1260.7	1389.3	1360.9	1196.4	1049.9
18821.2	60°	15188.6	9981.2	2373.4	1205.4	1226.3	1190.4	1328.0	1278.7	1118.7	976.6
20203.1	62.5°	16111.3	10479.2	2315.1	1126.1	1139.6	1124.6	1247.3	1181.5	1040.9	894.3
21643.3	65°	17037.1	10775.3	2135.6	1048.4	1051.4	1043.9	1133.6	1076.8	949.7	822.5
22904.0	67.5°	17876.1	10941.3	1850.0	964.6	957.1	954.1	1027.4	963.1	861.4	750.8
23862.7	70°	18054.0	10519.6	1413.3	865.9	865.9	858.4	910.8	845.0	764.2	674.5
23176.2	72.5°	16489.7	8849.1	1003.5	753.7	765.7	750.8	794.1	738.8	665.5	605.7
19974.3	75°	13296.8	6489.1	729.8	638.6	659.5	634.1	674.5	635.6	572.8	571.3
13764.9	77.5°	9136.2	4012.5	529.4	526.4	541.4	508.5	554.8	533.9	477.1	451.7
5991.1	80°	3898.8	1600.2	385.8	406.8	406.8	376.9	430.7	436.7	387.3	375.4
1156.0	82.5°	776.2	454.6	270.7	279.7	263.2	254.2	305.1	338.0	466.6	518.9
348.5	85°	233.3	167.5	163.0	152.5	134.6	136.1	179.5	339.5	418.7	239.3
115.2	87.5°	64.3	41.9	43.4	34.4	28.4	37.4	61.3	257.2	140.6	59.8
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>
5675.5
5494.6
5014.5
4235.3
3381.4
2834.0
2478.1
2371.9
2330.0
2234.3
2125.1
2066.8
2036.9
1986.1
1830.5
1642.1
1440.2
1357.9
1302.6
1259.2
1235.3
1190.4
1114.2
1046.9
972.1
892.8
813.6
741.8
671.5
587.7
514.5
423.2
375.4
520.4
206.4
50.8
0.0

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