

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: P954013

Luminaire Tested: **GALN-SB7B-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954013
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-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 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: 24228 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

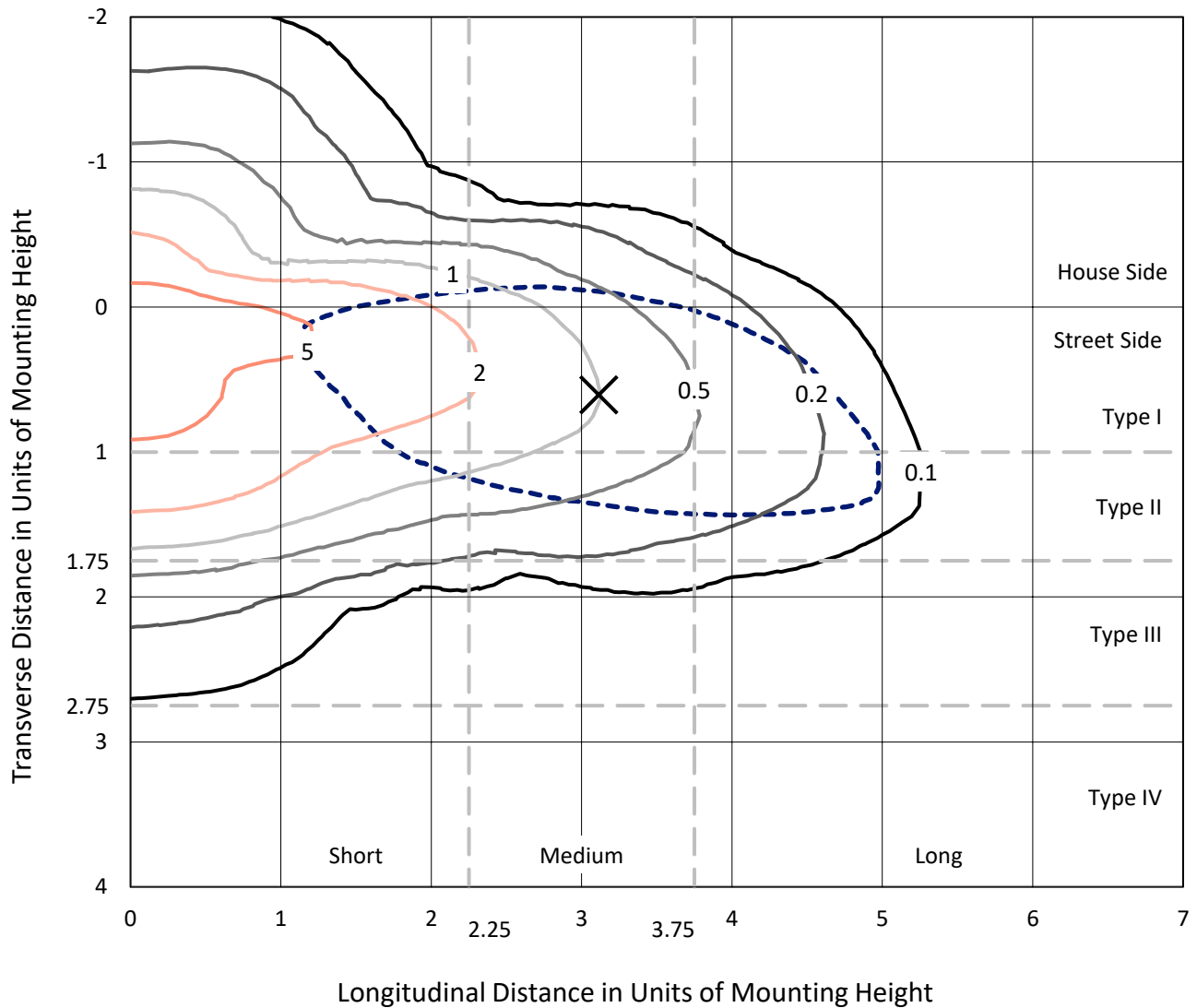
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

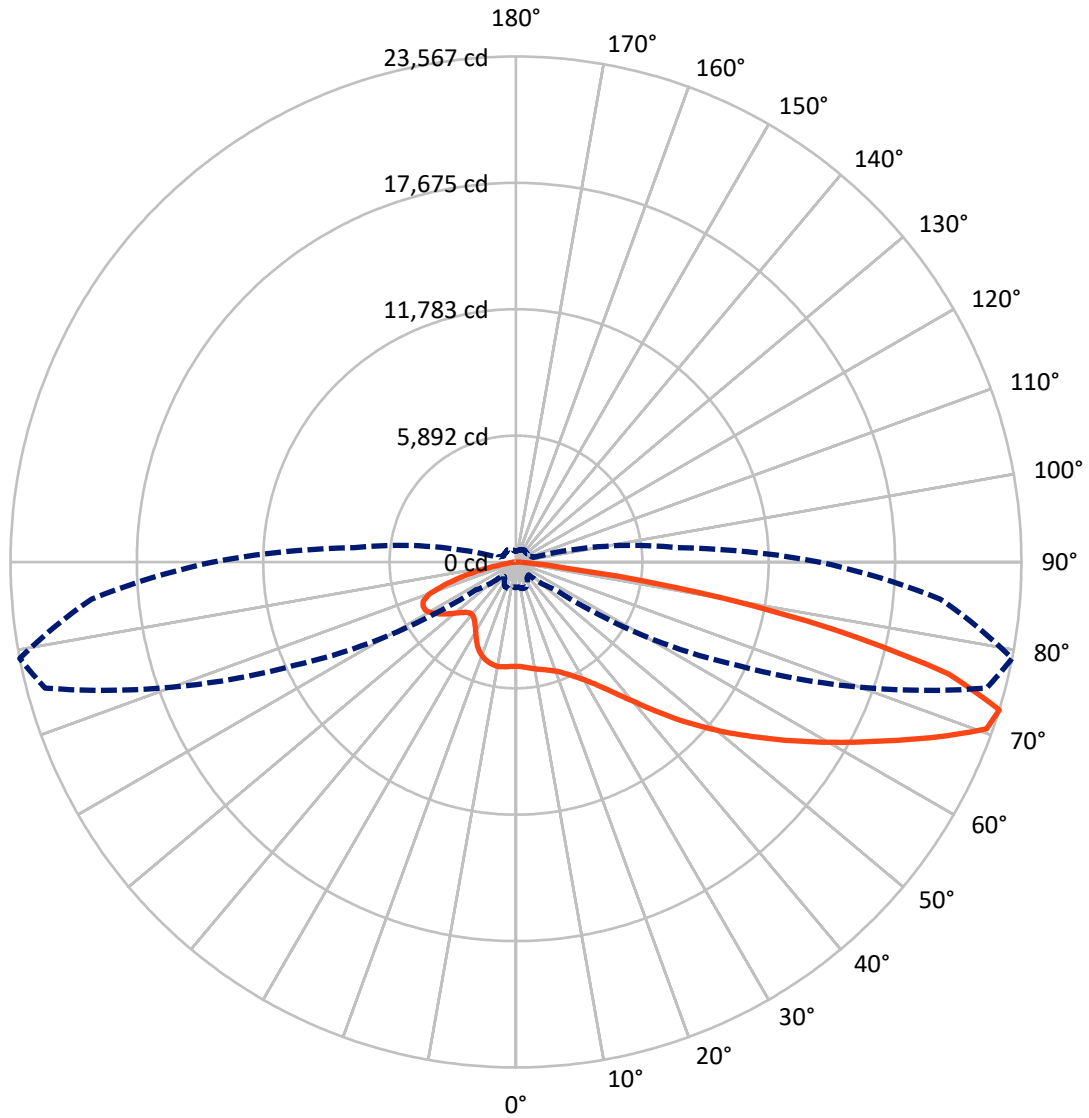
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	5331.5	0.0	5331.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	18896.5	0.0	18896.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	24228.0	0.0	24228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.5	1.8
10°-20°	1154.2	4.8
20°-30°	1862.4	7.7
30°-40°	2795.3	11.5
40°-50°	3965.2	16.4
50°-60°	5007.6	20.7
60°-70°	5085.9	21.0
70°-80°	3466.2	14.3
80°-90°	449.7	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°	24228.0	100.0
0°-180°	24228.0	100.0

Coefficient of Utilization



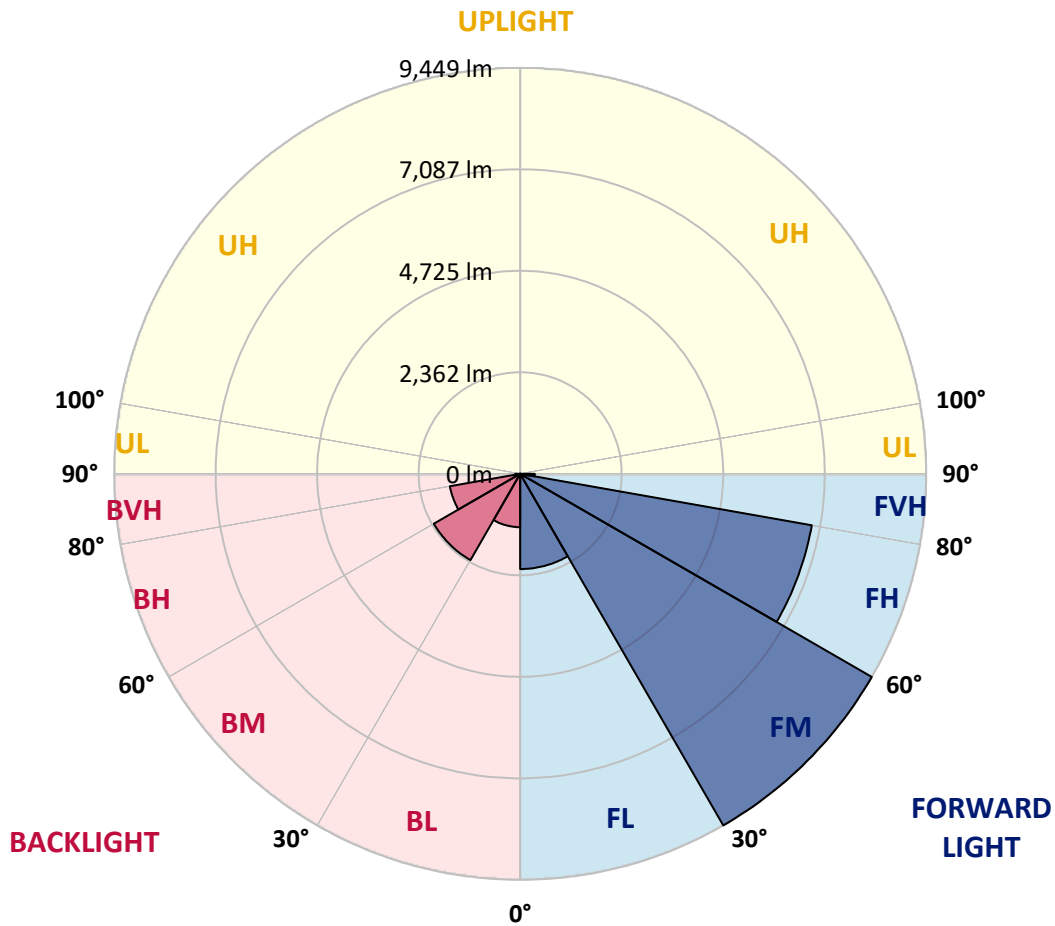
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2216.3	9.1			
FM (30°-60°)	9449.4	39.0			
FH (60°-80°)	6892.0	28.4			G3/7500
FVH (80°-90°)	338.8	1.4			G3/500
BL (0°-30°)	1241.9	5.1	B3/2500		
BM (30°-60°)	2318.6	9.6	B2/2500		
BH (60°-80°)	1660.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	110.9	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5
2.5°	4866.1	4843.0	4857.1	4852.0	4858.4	4866.1	4868.7	4872.5	4885.3	4884.0
5°	4855.9	4832.8	4852.0	4845.6	4862.3	4880.2	4895.6	4909.7	4930.2	4939.2
7.5°	4834.1	4818.7	4837.9	4857.1	4887.9	4914.8	4936.6	4968.6	4998.1	5003.2
10°	4707.2	4695.7	4740.5	4790.5	4875.1	4948.1	4995.5	5032.7	5064.7	5069.9
12.5°	4575.2	4561.1	4611.1	4679.0	4816.1	4948.1	5048.1	5096.8	5125.0	5141.6
15°	4553.4	4541.9	4570.1	4629.0	4743.1	4913.5	5084.0	5173.7	5198.0	5217.3
17.5°	4658.5	4636.7	4648.2	4668.7	4735.4	4881.5	5112.2	5260.8	5298.0	5318.5
20°	4902.0	4871.2	4853.3	4812.3	4800.7	4886.6	5109.6	5365.9	5414.6	5440.2
22.5°	5226.2	5205.7	5167.3	5063.5	4950.7	4949.4	5158.3	5500.5	5591.5	5615.8
25°	5618.4	5587.6	5538.9	5398.0	5181.4	5073.7	5240.3	5672.2	5824.7	5831.1
27.5°	6069.5	6023.4	5956.7	5770.9	5478.7	5268.5	5365.9	5869.6	6092.6	6090.0
30°	6545.0	6498.8	6428.3	6202.8	5835.0	5531.2	5540.2	6082.3	6410.4	6396.3
32.5°	6892.3	6857.7	6843.6	6669.3	6245.1	5841.4	5740.1	6318.1	6802.5	6789.7
35°	7158.8	7114.0	7130.6	7042.2	6692.3	6188.7	5984.9	6598.8	7279.3	7278.0
37.5°	7422.8	7383.1	7397.2	7338.2	7106.3	6629.5	6283.5	6942.2	7870.1	7898.3
40°	7663.8	7621.5	7677.9	7622.8	7428.0	7098.6	6623.1	7330.6	8554.4	8608.3
42.5°	7808.6	7775.3	7868.8	7870.1	7707.3	7494.6	6996.1	7758.6	9346.5	9466.9
45°	7858.6	7847.0	7988.0	8017.5	7954.7	7724.0	7331.8	8225.1	10200.0	10415.3
47.5°	7804.7	7782.9	7977.7	8086.7	8136.7	7831.6	7609.9	8730.0	11071.4	11386.7
50°	7533.0	7490.7	7780.4	8009.8	8187.9	7902.1	7890.6	9313.1	12062.1	12406.8
52.5°	7044.8	7012.7	7342.1	7740.7	8075.1	7936.7	8205.9	9950.1	13002.8	13448.7
55°	6420.6	6378.4	6741.0	7261.3	7794.5	7925.2	8521.1	10662.6	14112.6	14565.0
57.5°	5431.3	5346.7	5805.5	6420.6	7337.0	7911.1	8849.2	11371.3	15240.4	15782.5
60°	3988.2	3862.6	4425.2	5154.5	6442.4	7774.0	9255.5	12165.9	16593.7	17082.0
62.5°	2322.2	2249.1	2617.0	3297.5	4855.9	6966.6	9483.6	13089.9	17924.0	18436.6
65°	1803.2	1782.7	1814.7	1867.2	2702.8	5216.0	8780.0	13990.8	19615.6	19974.5
67.5°	1649.4	1634.0	1648.1	1549.4	1371.3	2905.3	6946.1	14219.0	21427.8	21645.6
70°	1466.1	1448.2	1494.3	1409.7	1079.1	1321.3	4488.0	13391.1	22869.5	23278.4
72.5°	1194.4	1173.9	1281.6	1243.1	908.6	848.4	2254.3	11423.9	22718.3	23566.7
75°	917.6	906.1	1034.2	1066.3	740.7	667.7	1081.6	8491.7	19992.4	20847.2
77.5°	712.6	703.6	768.9	885.6	597.2	517.8	665.1	5386.4	15066.1	15216.0
80°	534.4	508.8	569.0	685.6	465.2	378.1	451.1	3141.1	9523.3	8632.6
82.5°	334.5	321.7	371.7	457.5	328.1	260.2	293.5	1735.2	3816.5	2247.9
85°	191.0	185.8	202.5	261.4	178.1	149.9	167.9	766.4	697.2	479.3
87.5°	76.9	74.3	92.3	116.6	65.4	55.1	59.0	184.5	153.8	142.3
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°
4863.5	0°	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5
4882.8	2.5°	4877.6	4877.6	4859.7	4831.5	4799.5	4779.0	4745.6	4736.7	4702.1	4691.8
4926.3	5°	4936.6	4926.3	4871.2	4791.8	4682.8	4582.9	4472.7	4403.5	4306.1	4271.5
5012.2	7.5°	5010.9	4982.7	4887.9	4713.6	4485.5	4261.2	4028.0	3851.1	3681.9	3621.7
5082.7	10°	5078.8	5039.1	4877.6	4572.6	4177.9	3789.6	3417.9	3157.8	2960.4	2879.7
5160.9	12.5°	5146.8	5073.7	4809.7	4338.1	3740.9	3214.2	2818.2	2615.7	2493.9	2396.5
5224.9	15°	5210.8	5108.3	4704.6	4024.1	3261.6	2727.2	2435.0	2273.5	2176.1	2112.0
5318.5	17.5°	5285.2	5137.8	4547.0	3625.5	2805.3	2390.1	2151.7	2054.3	2035.1	2027.4
5446.7	20°	5389.0	5164.7	4339.4	3179.6	2469.6	2121.0	1998.0	1989.0	1987.7	1983.9
5600.4	22.5°	5500.5	5196.7	4065.1	2774.6	2183.8	1953.1	1931.3	1913.4	1901.8	1900.6
5786.3	25°	5632.5	5207.0	3721.7	2442.7	1940.3	1873.6	1848.0	1821.1	1813.4	1813.4
5997.7	27.5°	5760.6	5172.4	3321.8	2154.3	1803.2	1800.6	1767.3	1758.3	1757.0	1760.9
6238.7	30°	5888.8	5107.0	2924.5	1887.7	1723.7	1723.7	1712.2	1718.6	1723.7	1736.5
6569.3	32.5°	6061.8	5037.8	2592.6	1690.4	1654.5	1641.7	1653.2	1666.0	1671.2	1687.8
7003.8	35°	6315.6	4989.1	2328.6	1582.7	1582.7	1566.1	1572.5	1569.9	1558.4	1550.7
7529.2	37.5°	6651.3	4986.6	2110.7	1532.8	1522.5	1519.9	1521.2	1504.6	1459.7	1405.9
8164.9	40°	7055.0	5055.8	1942.9	1498.1	1490.5	1505.8	1498.1	1453.3	1330.3	1236.7
8946.6	42.5°	7597.1	5253.1	1835.2	1455.9	1478.9	1498.1	1467.4	1312.3	1229.0	1166.2
9837.3	45°	8235.3	5573.5	1780.1	1411.0	1457.1	1480.2	1331.5	1263.6	1197.0	1121.4
10808.7	47.5°	8958.1	5977.2	1767.3	1368.7	1408.4	1422.5	1273.9	1243.1	1167.5	1085.5
11785.3	50°	9745.0	6455.2	1801.9	1318.7	1338.0	1289.3	1254.7	1226.5	1148.3	1067.5
12786.2	52.5°	10558.8	6982.0	1871.1	1250.8	1267.5	1213.6	1247.0	1222.6	1136.7	1027.8
13820.4	55°	11358.5	7512.5	1937.7	1171.4	1195.7	1145.7	1225.2	1207.2	1084.2	961.2
14923.8	57.5°	12171.0	8040.5	2003.1	1100.9	1126.5	1080.4	1190.6	1166.2	1025.3	899.7
16128.5	60°	13015.6	8553.2	2033.8	1032.9	1050.9	1020.1	1138.0	1095.7	958.6	836.9
17312.7	62.5°	13806.3	8979.9	1983.9	965.0	976.6	963.7	1068.8	1012.4	892.0	766.4
18546.8	65°	14599.6	9233.7	1830.1	898.4	900.9	894.5	971.4	922.7	813.8	704.9
19627.2	67.5°	15318.6	9375.9	1585.3	826.6	820.2	817.6	880.4	825.3	738.2	643.3
20448.7	70°	15471.1	9014.5	1211.1	742.0	742.0	735.6	780.5	724.1	654.9	578.0
19860.4	72.5°	14130.5	7583.0	859.9	645.9	656.2	643.3	680.5	633.1	570.3	519.0
17116.6	75°	11394.4	5560.7	625.4	547.2	565.2	543.4	578.0	544.7	490.8	489.6
11795.5	77.5°	7829.1	3438.4	453.7	451.1	463.9	435.7	475.5	457.5	408.8	387.0
5134.0	80°	3341.0	1371.3	330.6	348.6	348.6	323.0	369.1	374.2	331.9	321.7
990.7	82.5°	665.1	389.6	232.0	239.7	225.6	217.9	261.4	289.6	399.8	444.7
298.6	85°	199.9	143.5	139.7	130.7	115.3	116.6	153.8	290.9	358.8	205.1
98.7	87.5°	55.1	35.9	37.2	29.5	24.3	32.0	52.5	220.4	120.5	51.3
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>
4863.5
4708.5
4297.1
3629.4
2897.6
2428.6
2123.6
2032.6
1996.7
1914.7
1821.1
1771.1
1745.5
1701.9
1568.6
1407.2
1234.1
1163.7
1116.2
1079.1
1058.6
1020.1
954.8
897.1
833.0
765.1
697.2
635.7
575.4
503.7
440.9
362.7
321.7
446.0
176.9
43.6
0.0

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