

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: P955170

Luminaire Tested: **GALN-SB8A-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24661 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

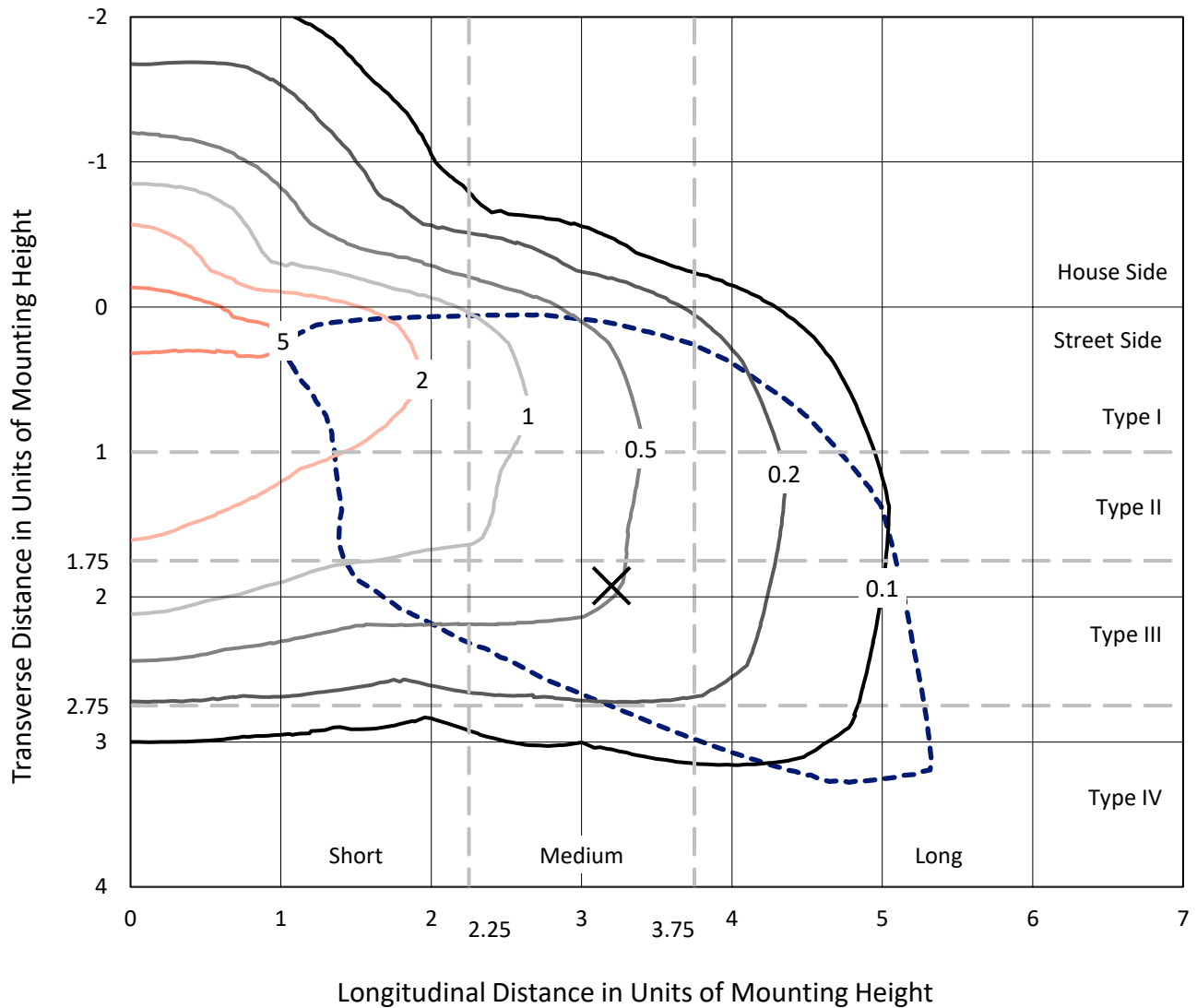
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

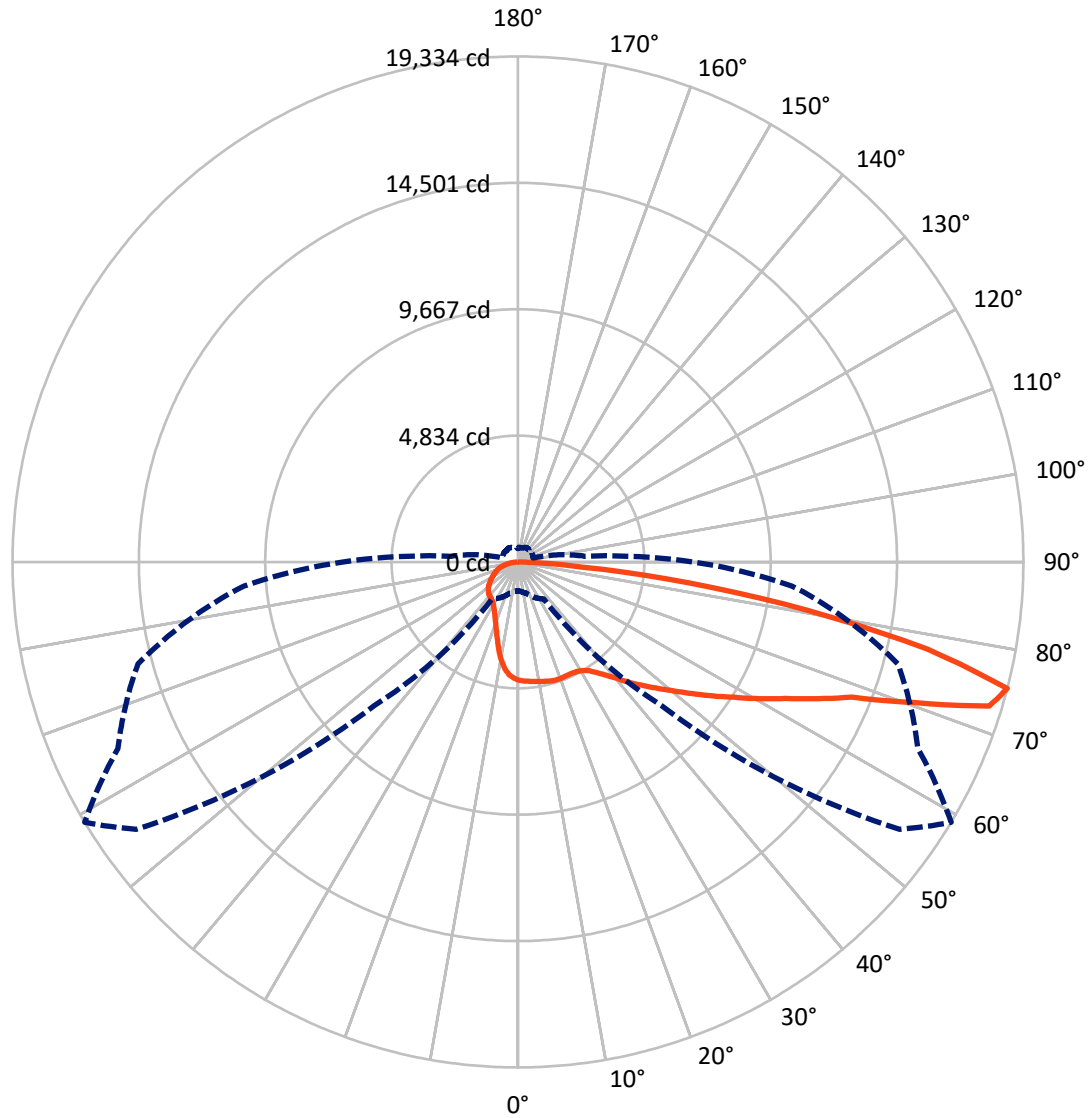
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4625.3	0.0	4625.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20035.7	0.0	20035.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	24661.0	0.0	24661.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	1.6
10°-20°	1037.4	4.2
20°-30°	1575.8	6.4
30°-40°	2342.4	9.5
40°-50°	3483.5	14.1
50°-60°	4728.4	19.2
60°-70°	5772.6	23.4
70°-80°	4530.3	18.4
80°-90°	784.8	3.2
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°	24661.0	100.0
0°-180°	24661.0	100.0



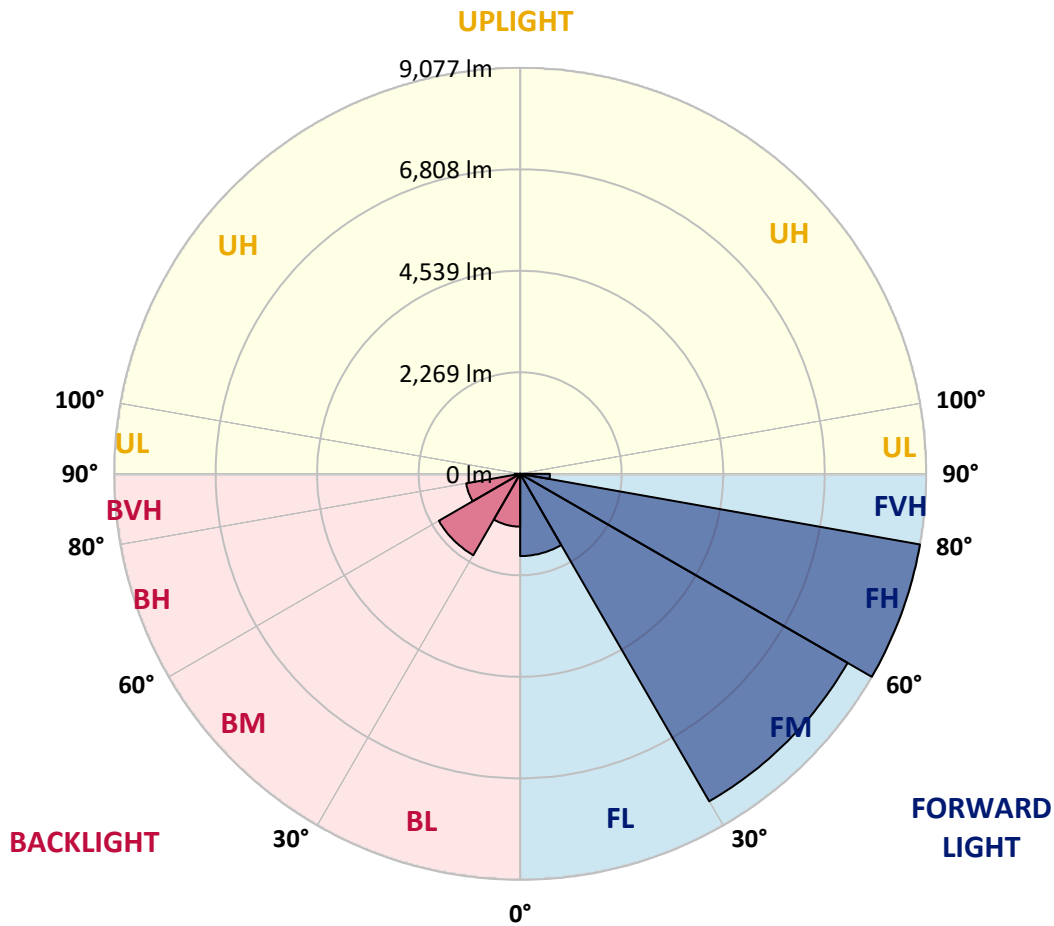
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1838.7	7.5			
FM	(30°-60°)	8454.8	34.3			
FH	(60°-80°)	9077.5	36.8			G4/12000
FVH	(80°-90°)	664.6	2.7			G4/750
BL	(0°-30°)	1180.3	4.8	B3/2500		
BM	(30°-60°)	2099.4	8.5	B2/2500		
BH	(60°-80°)	1225.4	5.0	B3/2500		G3/2500
BVH	(80°-90°)	120.1	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5
2.5°	4564.9	4549.0	4564.9	4558.3	4555.7	4550.4	4551.7	4561.0	4555.7	4562.3
5°	4534.4	4525.1	4541.1	4537.1	4554.3	4557.0	4574.2	4584.8	4591.5	4592.8
7.5°	4484.0	4474.7	4497.3	4515.9	4553.0	4563.6	4599.4	4616.7	4626.0	4641.9
10°	4299.6	4295.6	4351.4	4421.7	4509.2	4563.6	4618.0	4647.2	4661.8	4704.2
12.5°	3973.3	3978.6	4051.5	4186.9	4362.0	4537.1	4639.2	4681.7	4704.2	4757.3
15°	3661.5	3660.2	3739.8	3884.4	4129.8	4420.3	4649.8	4722.8	4761.3	4839.6
17.5°	3481.1	3475.8	3531.5	3641.6	3869.8	4241.2	4623.3	4745.4	4827.6	4925.8
20°	3447.9	3437.3	3466.5	3520.9	3682.7	4044.9	4554.3	4745.4	4880.7	5008.0
22.5°	3568.6	3551.4	3539.5	3532.8	3604.5	3883.1	4476.1	4729.4	4959.0	5126.1
25°	3811.4	3784.9	3723.9	3664.2	3642.9	3810.1	4407.1	4725.5	5075.7	5285.3
27.5°	4204.1	4170.9	4047.6	3904.3	3775.6	3847.2	4376.6	4749.3	5204.4	5453.8
30°	4691.0	4655.2	4499.9	4279.7	4048.9	3985.2	4415.0	4819.7	5368.9	5678.0
32.5°	5127.4	5087.6	4955.0	4730.8	4419.0	4224.0	4537.1	4953.6	5627.6	5989.7
35°	5514.8	5468.4	5349.0	5142.0	4872.7	4559.6	4757.3	5191.1	5995.1	6496.5
37.5°	5894.2	5839.8	5709.8	5490.9	5302.6	5006.7	5061.1	5496.2	6483.3	7112.1
40°	6318.8	6240.5	6082.6	5866.4	5683.3	5530.7	5460.4	5870.4	6979.4	7799.3
42.5°	6730.0	6655.7	6467.3	6282.9	6053.4	6009.6	5923.4	6308.1	7522.0	8554.1
45°	7173.1	7084.2	6856.0	6622.6	6477.9	6328.0	6371.8	6745.9	8054.0	9323.6
47.5°	7588.3	7488.8	7219.5	6959.5	6879.9	6596.0	6783.1	7227.5	8607.2	10103.6
50°	7812.5	7714.4	7490.2	7255.4	7193.0	6926.4	7228.8	7756.8	9186.9	10881.0
52.5°	7999.6	7893.5	7600.3	7470.3	7451.7	7285.9	7778.0	8361.8	9766.7	11568.2
55°	8198.6	8080.5	7706.4	7589.7	7674.6	7689.2	8429.4	9047.6	10379.6	12238.2
57.5°	8428.1	8278.2	7808.6	7690.5	7892.1	8161.4	9177.6	9758.7	10981.9	12859.1
60°	8644.3	8493.1	8004.9	7851.0	8127.0	8709.3	10036.0	10619.7	11663.8	13412.3
62.5°	8686.8	8562.1	8161.4	8160.1	8445.3	9348.8	11052.2	11488.6	12259.4	13958.8
65°	7951.8	7873.6	7636.1	8148.2	8901.7	10269.5	12183.8	12600.4	13016.9	14436.4
67.5°	6052.1	6062.7	6045.5	7033.8	8532.9	11592.1	13822.2	13790.3	13952.2	14972.4
70°	2767.4	2829.7	3235.7	4855.5	6836.1	11744.7	16531.2	16118.6	15126.3	15666.2
72.5°	1495.1	1542.9	1708.7	2352.1	4109.9	10441.9	18555.6	18848.8	16687.7	16133.2
75°	1097.1	1123.7	1239.1	1495.1	1725.9	7760.8	17829.9	19334.3	16882.7	15044.0
77.5°	821.2	833.1	927.3	1184.7	883.5	4091.3	14246.7	16012.5	14452.3	12360.2
80°	595.7	608.9	679.2	888.8	619.5	1496.4	9782.6	11239.2	9898.0	7878.9
82.5°	411.3	416.6	447.1	604.9	432.5	581.1	5550.6	6590.7	5525.4	2764.7
85°	248.1	254.7	268.0	352.9	245.4	275.9	2395.9	2478.2	1651.7	660.7
87.5°	102.2	108.8	119.4	148.6	96.8	76.9	395.3	496.2	309.1	193.7
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°
4526.5	0°	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5
4539.7	2.5°	4533.1	4523.8	4498.6	4464.1	4432.3	4392.5	4375.2	4360.6	4347.4	4322.2
4575.6	5°	4561.0	4535.8	4468.1	4380.5	4281.0	4172.3	4066.1	3993.2	3930.8	3884.4
4616.7	7.5°	4603.4	4555.7	4432.3	4253.2	4025.0	3791.5	3580.6	3430.7	3317.9	3276.8
4675.1	10°	4647.2	4590.1	4375.2	4059.5	3665.5	3306.0	3026.0	2872.2	2781.9	2752.8
4744.0	12.5°	4698.9	4615.4	4286.4	3790.2	3263.5	2869.5	2625.4	2535.2	2488.8	2472.8
4828.9	15°	4774.6	4636.6	4152.4	3453.2	2880.1	2551.1	2393.2	2330.9	2307.0	2305.7
4916.5	17.5°	4831.6	4640.6	3944.1	3092.4	2585.6	2358.8	2228.7	2204.9	2220.8	2244.7
5002.7	20°	4895.3	4604.7	3670.8	2763.4	2378.7	2190.3	2135.9	2151.8	2190.3	2224.8
5116.8	22.5°	4940.4	4539.7	3340.5	2507.3	2199.6	2093.4	2090.8	2123.9	2145.2	2162.4
5250.8	25°	4980.2	4429.6	2990.2	2292.4	2052.3	2035.1	2064.2	2053.6	2039.0	2053.6
5384.8	27.5°	5009.4	4255.8	2677.1	2104.0	1948.8	1995.3	1978.0	1954.1	1952.8	1960.8
5542.7	30°	5000.1	4023.7	2419.8	1924.9	1875.9	1921.0	1879.8	1875.9	1871.9	1875.9
5780.1	32.5°	5000.1	3759.7	2222.1	1801.6	1829.4	1812.2	1808.2	1798.9	1783.0	1781.7
6102.5	35°	5027.9	3495.7	2052.3	1735.2	1791.0	1749.8	1752.5	1729.9	1696.8	1680.8
6529.7	37.5°	5085.0	3283.4	1883.8	1703.4	1723.3	1722.0	1711.4	1672.9	1614.5	1564.1
7063.0	40°	5223.0	3221.1	1768.4	1688.8	1691.5	1707.4	1679.5	1605.2	1472.6	1390.3
7604.3	42.5°	5439.2	3325.9	1743.2	1653.0	1670.2	1686.2	1631.8	1459.3	1365.1	1316.0
8172.1	45°	5713.8	3508.9	1797.6	1601.2	1619.8	1647.7	1485.8	1403.6	1361.1	1362.5
8734.6	47.5°	6061.4	3701.3	1898.4	1556.1	1546.9	1562.8	1389.0	1338.6	1280.2	1294.8
9274.5	50°	6463.4	3896.3	1993.9	1495.1	1465.9	1414.2	1326.6	1278.9	1204.6	1170.1
9795.9	52.5°	6898.5	4084.7	2032.4	1420.8	1378.4	1318.7	1284.2	1225.8	1135.6	1078.6
10288.0	55°	7311.1	4255.8	1989.9	1331.9	1290.8	1244.4	1239.1	1203.3	1106.4	1026.8
10725.8	57.5°	7701.1	4399.1	1883.8	1241.7	1201.9	1174.1	1209.9	1192.6	1070.6	968.4
11139.7	60°	8031.4	4497.3	1729.9	1150.2	1122.3	1107.7	1162.1	1156.8	1020.2	906.1
11511.2	62.5°	8294.1	4535.8	1560.1	1062.6	1056.0	1029.5	1095.8	1095.8	956.5	845.1
11837.5	65°	8499.7	4498.6	1387.7	976.4	989.7	949.9	1014.9	1006.9	888.8	790.7
12213.0	67.5°	8681.5	4376.6	1196.6	891.5	922.0	871.6	930.0	911.4	814.6	736.3
12538.0	70°	8762.4	4092.7	979.1	806.6	843.7	794.7	845.1	810.6	731.0	677.9
12181.1	72.5°	8112.4	3401.5	770.8	717.7	749.5	709.7	753.5	713.7	640.8	616.9
10518.9	75°	6711.4	2552.4	593.0	620.9	644.7	614.2	643.4	614.2	547.9	565.1
7770.1	77.5°	4874.0	1723.3	453.7	518.7	529.3	513.4	538.6	505.4	445.7	441.8
3872.4	80°	2423.8	1009.6	355.5	409.9	405.9	395.3	424.5	408.6	358.2	379.4
1045.4	82.5°	701.8	432.5	258.7	287.9	279.9	282.6	303.8	311.8	467.0	463.0
325.0	85°	220.2	169.8	155.2	160.5	152.6	156.5	179.1	355.5	329.0	192.4
100.8	87.5°	57.0	58.4	38.5	41.1	42.5	50.4	57.0	216.2	103.5	67.7
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>
4526.5
4310.2
3845.9
3205.1
2707.7
2476.8
2311.0
2253.9
2236.7
2171.7
2062.9
1974.0
1890.5
1798.9
1696.8
1581.3
1400.9
1316.0
1369.1
1331.9
1179.4
1077.2
1026.8
963.1
902.1
841.1
785.4
731.0
667.3
597.0
<i>516.1</i>
421.9
375.4
473.6
208.3
71.6
0.0

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