

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: P950149

Luminaire Tested: **GALN-SB4C-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950149  
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-SB4C-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

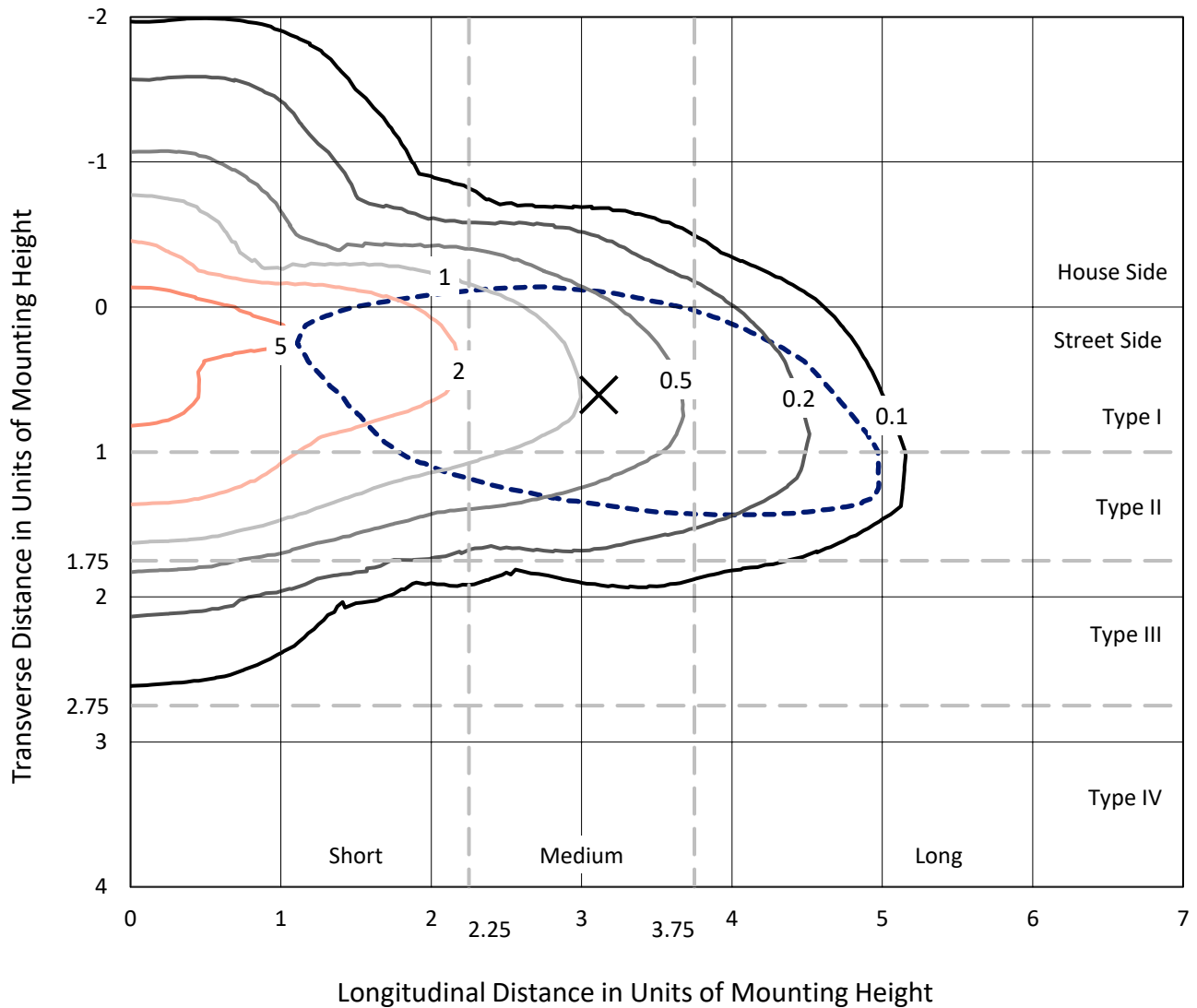
Lumens per Lamp: N/A  
Luminaire Lumens: 21618 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

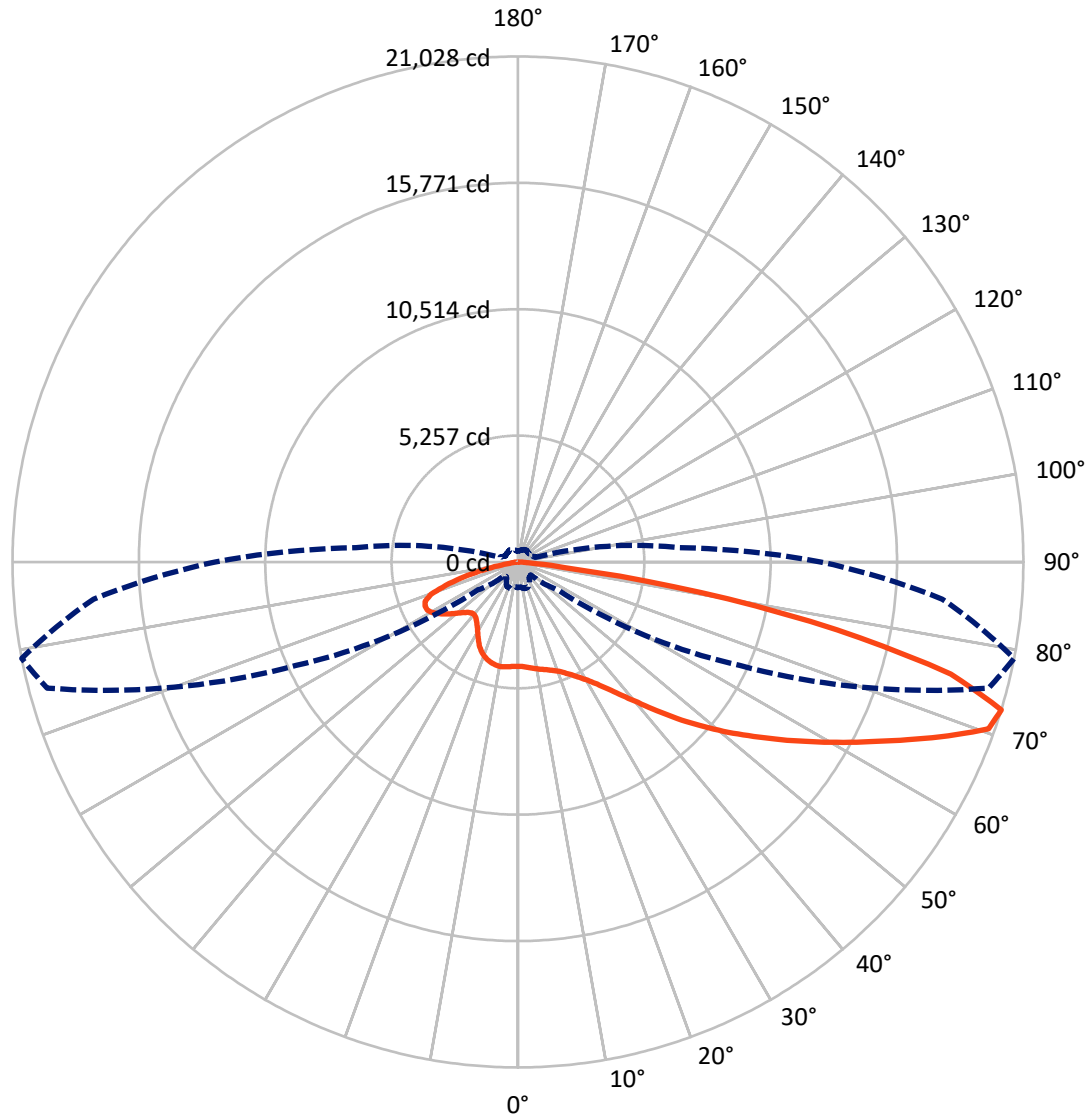
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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
<b>House Side</b>	Lumens	4757.1	0.0	4757.1
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	16860.9	0.0	16860.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	21618.0	0.0	21618.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.9	1.8
10°-20°	1029.9	4.8
20°-30°	1661.8	7.7
30°-40°	2494.1	11.5
40°-50°	3538.1	16.4
50°-60°	4468.1	20.7
60°-70°	4538.0	21.0
70°-80°	3092.8	14.3
80°-90°	401.3	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°	21618.0	100.0
0°-180°	21618.0	100.0



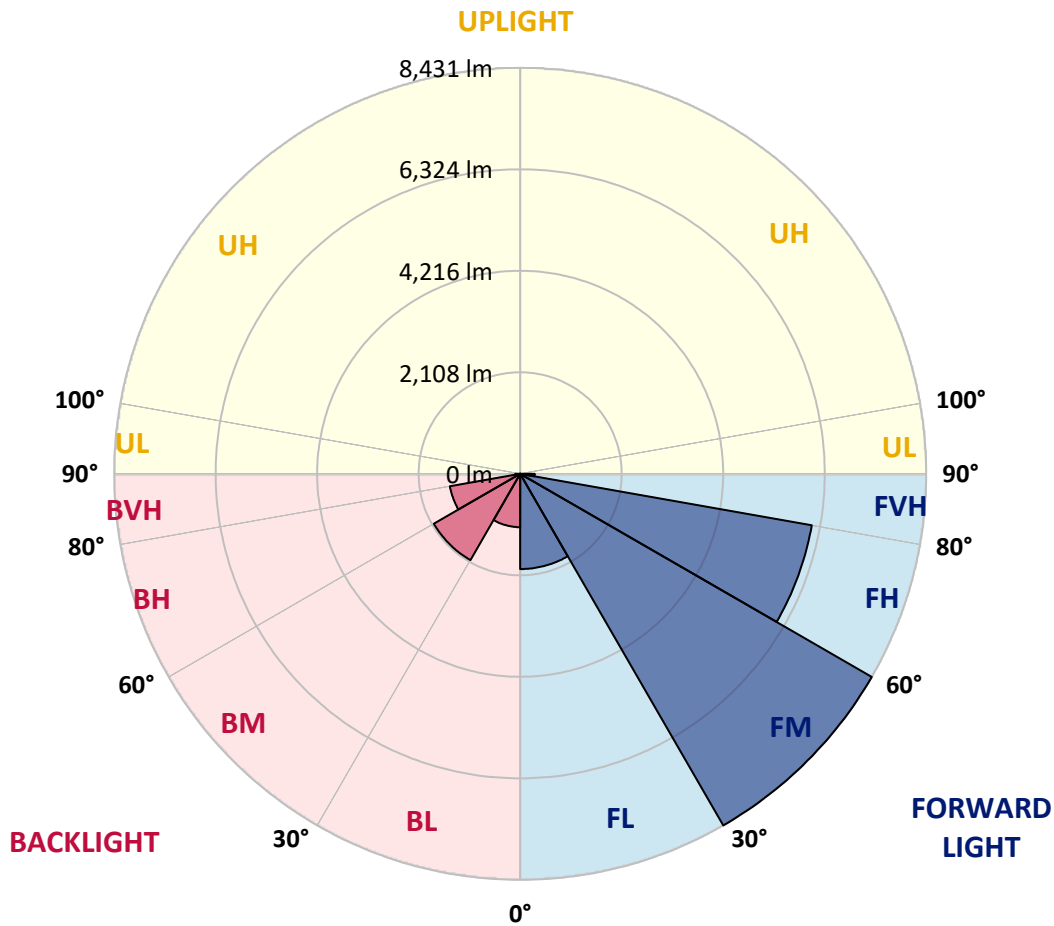
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.5	9.1			
FM (30°-60°)	8431.5	39.0			
FH (60°-80°)	6149.6	28.4			G3/7500
FVH (80°-90°)	302.3	1.4			G3/500
BL (0°-30°)	1108.1	5.1	B3/2500		
BM (30°-60°)	2068.9	9.6	B2/2500		
BH (60°-80°)	1481.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	99.0	0.5			G1/100
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°	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6
2.5°	4341.9	4321.3	4333.9	4329.3	4335.0	4341.9	4344.2	4347.6	4359.0	4357.9
5°	4332.7	4312.2	4329.3	4323.6	4338.5	4354.5	4368.2	4380.8	4399.1	4407.1
7.5°	4313.3	4299.6	4316.7	4333.9	4361.3	4385.3	4404.8	4433.4	4459.7	4464.3
10°	4200.1	4189.8	4229.8	4274.4	4349.9	4415.1	4457.4	4490.6	4519.1	4523.7
12.5°	4082.3	4069.7	4114.3	4174.9	4297.3	4415.1	4504.3	4547.7	4572.9	4587.7
15°	4062.9	4052.6	4077.7	4130.3	4232.1	4384.2	4536.3	4616.3	4638.1	4655.2
17.5°	4156.6	4137.2	4147.5	4165.8	4225.3	4355.6	4561.4	4694.1	4727.3	4745.6
20°	4373.9	4346.5	4330.5	4293.9	4283.6	4360.2	4559.2	4787.9	4831.3	4854.2
22.5°	4663.2	4644.9	4610.6	4518.0	4417.4	4416.2	4602.6	4907.9	4989.1	5010.8
25°	5013.1	4985.7	4942.2	4816.5	4623.2	4527.1	4675.8	5061.2	5197.2	5203.0
27.5°	5415.6	5374.5	5315.0	5149.2	4888.5	4701.0	4787.9	5237.3	5436.2	5433.9
30°	5839.9	5798.7	5735.8	5534.6	5206.4	4935.4	4943.4	5427.1	5719.8	5707.2
32.5°	6149.8	6118.9	6106.3	5950.8	5572.3	5212.1	5121.8	5637.5	6069.7	6058.3
35°	6387.6	6347.6	6362.5	6283.6	5971.4	5522.0	5340.2	5887.9	6495.1	6494.0
37.5°	6623.2	6587.7	6600.3	6547.7	6340.7	5915.4	5606.6	6194.4	7022.3	7047.4
40°	6838.2	6800.4	6850.7	6801.6	6627.8	6333.9	5909.6	6540.9	7632.9	7680.9
42.5°	6967.4	6937.7	7021.1	7022.3	6877.0	6687.2	6242.4	6922.8	8339.6	8447.1
45°	7012.0	7001.7	7127.5	7153.8	7097.7	6891.9	6542.0	7339.0	9101.2	9293.3
47.5°	6964.0	6944.5	7118.3	7215.5	7260.1	6988.0	6790.1	7789.6	9878.8	10160.1
50°	6721.5	6683.8	6942.2	7146.9	7305.9	7050.9	7040.6	8309.9	10762.7	11070.3
52.5°	6285.9	6257.3	6551.1	6906.8	7205.2	7081.7	7321.9	8878.2	11602.0	12000.0
55°	5729.0	5691.2	6014.8	6479.1	6954.8	7071.4	7603.2	9514.0	12592.3	12996.0
57.5°	4846.2	4770.7	5180.1	5729.0	6546.6	7058.9	7895.9	10146.3	13598.6	14082.3
60°	3558.6	3446.5	3948.5	4599.2	5748.4	6936.5	8258.4	10855.3	14806.1	15241.8
62.5°	2072.0	2006.9	2335.0	2942.2	4332.7	6216.1	8461.9	11679.8	15993.1	16450.5
65°	1608.9	1590.6	1619.2	1666.1	2411.7	4654.1	7834.2	12483.7	17502.5	17822.7
67.5°	1471.7	1458.0	1470.5	1382.5	1223.6	2592.3	6197.8	12687.2	19119.4	19313.8
70°	1308.2	1292.2	1333.3	1257.9	962.8	1179.0	4004.6	11948.5	20405.9	20770.7
72.5°	1065.7	1047.5	1143.5	1109.2	810.7	757.0	2011.4	10193.2	20270.9	21027.9
75°	818.8	808.5	922.8	951.4	660.9	595.8	965.1	7576.9	17838.7	18601.4
77.5°	635.8	627.8	686.1	790.2	532.9	462.0	593.5	4806.2	13443.1	13576.9
80°	476.8	454.0	507.7	611.8	415.1	337.3	402.5	2802.7	8497.4	7702.7
82.5°	298.5	287.0	331.6	408.2	292.7	232.1	261.9	1548.3	3405.4	2005.7
85°	170.4	165.8	180.7	233.3	158.9	133.8	149.8	683.8	622.1	427.7
87.5°	68.6	66.3	82.3	104.1	58.3	49.2	52.6	164.7	137.2	126.9
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°
4339.6	0°	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6
4356.8	2.5°	4352.2	4352.2	4336.2	4311.0	4282.4	4264.1	4234.4	4226.4	4195.5	4186.4
4395.6	5°	4404.8	4395.6	4346.5	4275.6	4178.4	4089.2	3990.8	3929.1	3842.2	3811.3
4472.3	7.5°	4471.1	4446.0	4361.3	4205.8	4002.3	3802.2	3594.0	3436.2	3285.3	3231.5
4535.1	10°	4531.7	4496.3	4352.2	4080.0	3727.8	3381.3	3049.7	2817.6	2641.5	2569.5
4604.9	12.5°	4592.3	4527.1	4291.6	3870.8	3337.9	2867.9	2514.6	2333.9	2225.3	2138.4
4662.1	15°	4649.5	4558.0	4197.8	3590.6	2910.2	2433.4	2172.7	2028.6	1941.7	1884.5
4745.6	17.5°	4715.8	4584.3	4057.2	3235.0	2503.1	2132.6	1919.9	1833.0	1815.9	1809.0
4859.9	20°	4808.4	4608.3	3871.9	2837.0	2203.5	1892.5	1782.7	1774.7	1773.6	1770.1
4997.1	22.5°	4907.9	4636.9	3627.2	2475.7	1948.5	1742.7	1723.3	1707.3	1697.0	1695.8
5162.9	25°	5025.7	4646.1	3320.7	2179.5	1731.3	1671.8	1648.9	1624.9	1618.1	1618.1
5351.6	27.5°	5140.1	4615.2	2964.0	1922.2	1608.9	1606.6	1576.9	1568.9	1567.7	1571.2
5566.6	30°	5254.4	4556.9	2609.5	1684.4	1538.0	1538.0	1527.7	1533.4	1538.0	1549.5
5861.6	32.5°	5408.8	4495.1	2313.3	1508.3	1476.3	1464.8	1475.1	1486.6	1491.1	1506.0
6249.3	35°	5635.2	4451.7	2077.8	1412.2	1412.2	1397.4	1403.1	1400.8	1390.5	1383.6
6718.1	37.5°	5934.8	4449.4	1883.4	1367.6	1358.5	1356.2	1357.3	1342.5	1302.5	1254.4
7285.3	40°	6295.0	4511.1	1733.6	1336.8	1329.9	1343.6	1336.8	1296.7	1187.0	1103.5
7982.8	42.5°	6778.7	4687.2	1637.5	1299.0	1319.6	1336.8	1309.3	1171.0	1096.6	1040.6
8777.6	45°	7348.2	4973.1	1588.3	1259.0	1300.2	1320.8	1188.1	1127.5	1068.0	1000.6
9644.3	47.5°	7993.1	5333.3	1576.9	1221.3	1256.7	1269.3	1136.6	1109.2	1041.7	968.6
10515.7	50°	8695.2	5759.8	1607.8	1176.7	1193.8	1150.4	1119.5	1094.3	1024.6	952.5
11408.8	52.5°	9421.4	6229.8	1669.5	1116.1	1130.9	1082.9	1112.6	1090.9	1014.3	917.1
12331.6	55°	10134.9	6703.2	1729.0	1045.2	1066.9	1022.3	1093.2	1077.2	967.4	857.6
13316.1	57.5°	10859.9	7174.4	1787.3	982.3	1005.1	964.0	1062.3	1040.6	914.8	802.7
14391.0	60°	11613.5	7631.8	1814.7	921.7	937.7	910.2	1015.4	977.7	855.3	746.7
15447.6	62.5°	12319.0	8012.6	1770.1	861.1	871.4	859.9	953.7	903.4	795.9	683.8
16548.8	65°	13026.8	8239.0	1632.9	801.6	803.9	798.2	866.8	823.3	726.1	628.9
17512.8	67.5°	13668.3	8365.9	1414.5	737.6	731.8	729.6	785.6	736.4	658.7	574.0
18245.8	70°	13804.4	8043.4	1080.6	662.1	662.1	656.4	696.4	646.1	584.3	515.7
17720.9	72.5°	12608.3	6766.1	767.3	576.3	585.5	574.0	607.2	564.9	508.9	463.1
15272.7	75°	10166.9	4961.7	558.0	488.3	504.3	484.8	515.7	486.0	438.0	436.8
10524.8	77.5°	6985.7	3068.0	404.8	402.5	413.9	388.8	424.2	408.2	364.8	345.3
4580.9	80°	2981.1	1223.6	295.0	311.0	311.0	288.2	329.3	333.9	296.2	287.0
883.9	82.5°	593.5	347.6	207.0	213.8	201.3	194.4	233.3	258.4	356.8	396.8
266.4	85°	178.4	128.1	124.6	116.6	102.9	104.1	137.2	259.6	320.2	183.0
88.1	87.5°	49.2	32.0	33.2	26.3	21.7	28.6	46.9	196.7	107.5	45.7
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>
4339.6
4201.2
3834.2
3238.4
2585.5
2166.9
1894.8
1813.6
1781.6
1708.4
1624.9
1580.3
1557.5
1518.6
1399.7
1255.6
1101.2
1038.3
996.0
962.8
944.5
910.2
851.9
800.5
743.3
682.7
622.1
567.2
513.4
449.4
393.4
323.6
287.0
397.9
157.8
38.9
0.0

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