

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: P939804

Luminaire Tested: **GALN-SB2C-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

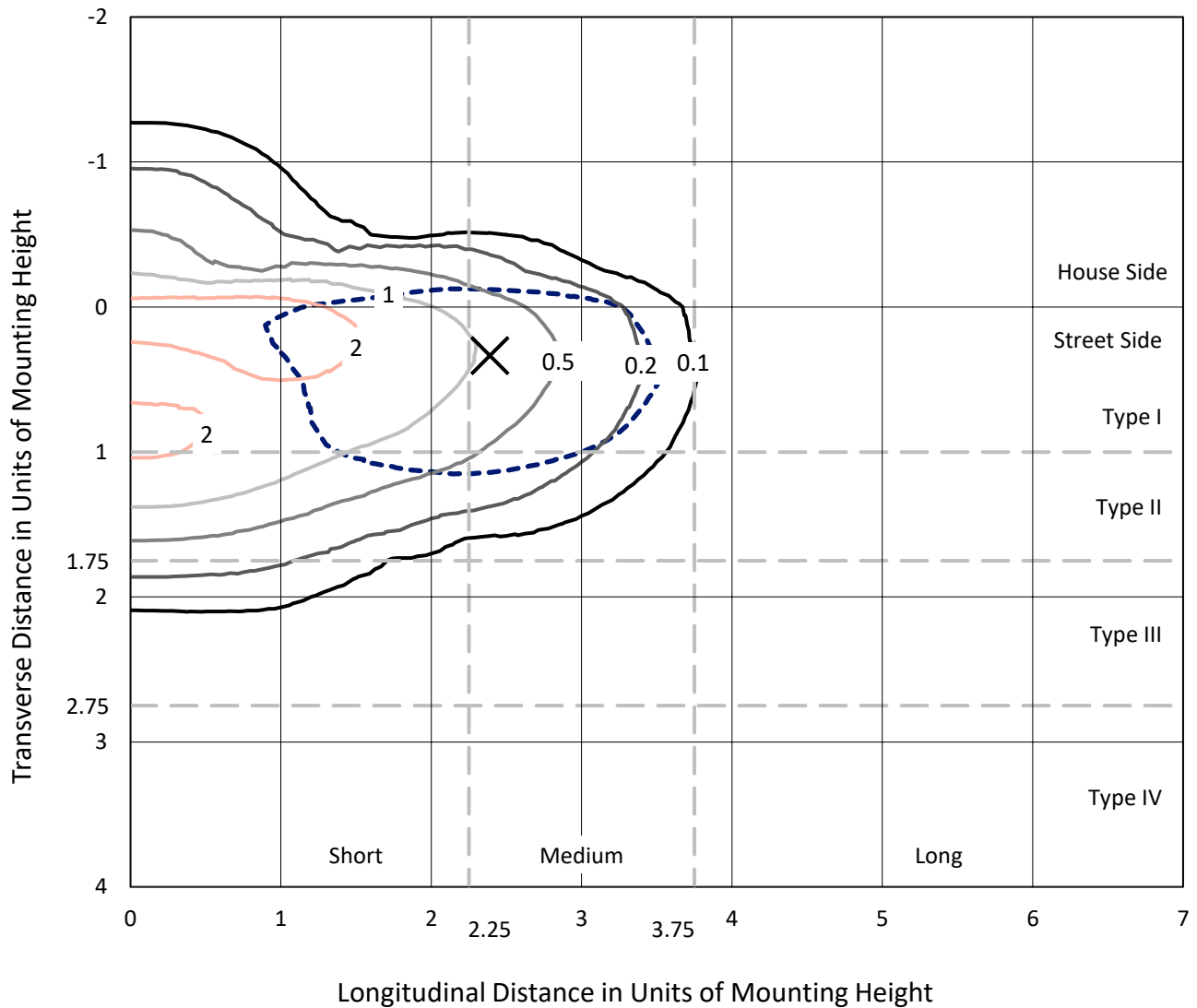
Lumens per Lamp: N/A  
Luminaire Lumens: 9510 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

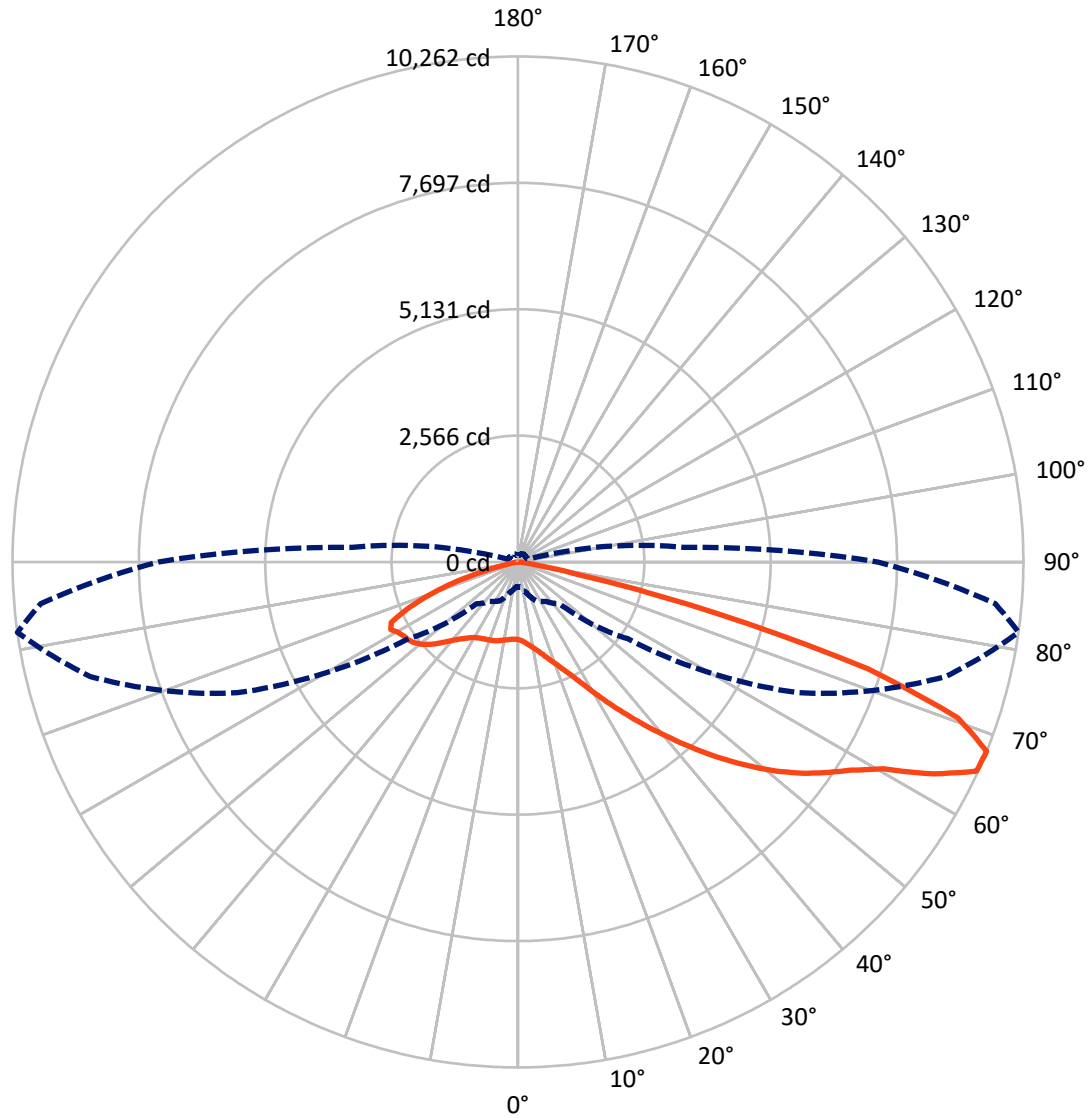
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1722.7	0.0	1722.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7787.4	0.0	7787.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	9510.0	0.0	9510.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	1.5
10°-20°	364.8	3.8
20°-30°	584.2	6.1
30°-40°	1033.1	10.9
40°-50°	1810.0	19.0
50°-60°	2414.1	25.4
60°-70°	2247.4	23.6
70°-80°	862.5	9.1
80°-90°	53.6	0.6
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°	9510.0	100.0
0°-180°	9510.0	100.0

**Coefficient of Utilization**



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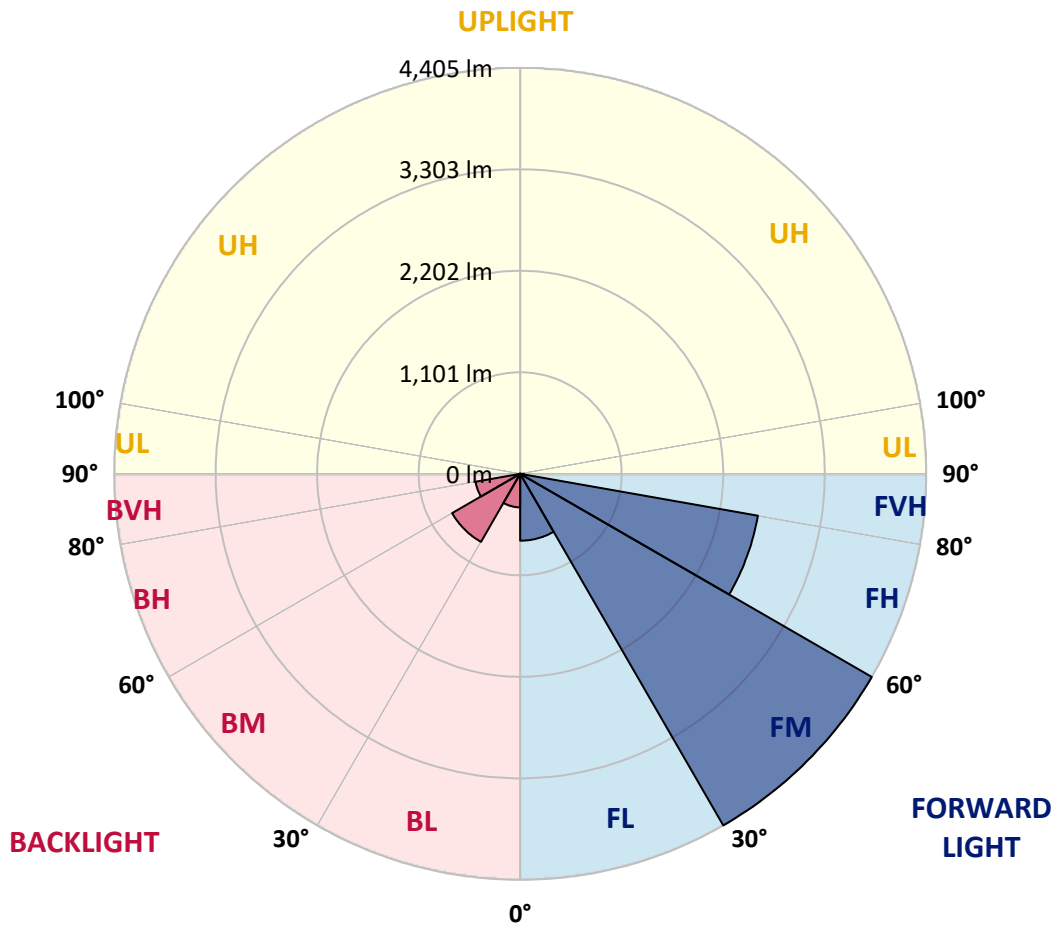
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.5	7.6			
FM (30°-60°)	4404.6	46.3			
FH (60°-80°)	2618.2	27.5			G2/5000
FVH (80°-90°)	39.0	0.4			G1/100
BL (0°-30°)	363.8	3.8	B1/500		
BM (30°-60°)	852.5	9.0	B1/1000		
BH (60°-80°)	491.7	5.2	B1/500		G1/500
BVH (80°-90°)	14.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5
2.5°	1665.2	1674.8	1669.3	1666.5	1661.8	1654.9	1649.4	1632.3	1614.5	1602.9
5°	1698.7	1708.3	1707.6	1710.4	1713.8	1715.8	1714.5	1695.3	1670.0	1650.1
7.5°	1670.0	1680.9	1689.8	1703.5	1727.5	1752.8	1765.1	1761.0	1735.0	1707.6
10°	1588.5	1600.1	1621.4	1653.5	1704.2	1759.0	1804.9	1826.1	1809.7	1779.5
12.5°	1439.2	1450.9	1492.6	1562.5	1647.4	1742.6	1830.2	1887.0	1891.1	1861.0
15°	1271.5	1283.1	1327.6	1415.3	1544.7	1697.4	1843.9	1951.4	1987.7	1961.7
17.5°	1167.4	1177.7	1211.2	1281.8	1416.6	1607.0	1839.1	2019.9	2102.7	2082.2
20°	1135.9	1144.8	1160.6	1209.9	1322.1	1513.2	1807.6	2084.2	2226.6	2215.0
22.5°	1169.5	1177.7	1182.5	1204.4	1274.9	1451.6	1767.9	2149.9	2370.4	2371.8
25°	1246.8	1255.0	1249.6	1263.3	1294.1	1432.4	1752.8	2227.3	2551.2	2566.2
27.5°	1374.2	1374.9	1361.9	1361.2	1366.0	1461.1	1768.6	2310.2	2779.2	2807.3
30°	1629.6	1619.3	1569.3	1515.2	1490.6	1547.4	1812.4	2408.1	3048.3	3098.2
32.5°	2023.3	2008.2	1916.5	1787.1	1657.0	1686.4	1891.1	2519.7	3341.3	3431.7
35°	2450.5	2446.4	2350.6	2158.2	1930.8	1884.3	2019.2	2666.2	3661.1	3804.9
37.5°	2847.7	2845.6	2790.8	2564.2	2287.6	2160.2	2224.6	2857.9	4003.4	4211.6
40°	3210.5	3216.7	3161.9	2959.3	2680.6	2514.2	2503.9	3094.8	4384.1	4654.6
42.5°	3524.1	3531.0	3475.5	3325.6	3068.8	2905.8	2847.0	3385.1	4755.9	5130.4
45°	3737.1	3779.5	3771.3	3651.5	3467.3	3298.2	3259.2	3749.4	5179.7	5635.0
47.5°	3797.3	3836.4	3898.0	3914.4	3802.1	3635.7	3682.3	4188.3	5608.3	6140.4
50°	3648.7	3685.0	3813.1	3983.6	4061.6	4010.3	4093.8	4658.7	6047.2	6644.3
52.5°	3355.7	3392.7	3554.3	3824.0	4142.4	4304.0	4506.7	5122.2	6472.4	7121.5
55°	2931.9	2970.9	3178.4	3483.7	3988.4	4425.2	4851.1	5585.1	6862.0	7550.8
57.5°	2355.4	2384.1	2599.8	3027.0	3600.8	4304.7	5105.1	6090.4	7229.0	7972.6
60°	1535.1	1560.4	1811.0	2287.6	2958.6	3902.1	5155.8	6653.9	7716.5	8521.0
62.5°	1020.9	1038.0	1186.6	1536.5	2083.5	3129.1	4859.3	7103.7	8431.3	9475.5
65°	700.4	717.6	866.1	1109.9	1346.1	2069.8	4006.8	7044.2	9079.1	10233.5
67.5°	499.8	514.2	640.2	870.2	974.3	1202.3	2716.2	6282.8	8985.9	10262.2
70°	358.1	366.3	470.4	677.8	774.4	722.4	1510.4	4805.2	7867.8	9476.2
72.5°	250.6	253.3	326.6	516.3	623.8	527.2	718.9	3203.7	5950.7	7437.9
75°	169.8	173.2	219.8	378.6	500.5	402.6	380.7	1717.9	3493.3	4117.1
77.5°	104.1	105.4	141.7	258.8	374.5	306.7	245.1	727.8	1351.6	1326.9
80°	58.9	58.9	90.4	160.9	255.4	197.9	171.9	309.5	427.9	375.9
82.5°	32.9	33.6	65.7	100.0	169.1	117.1	94.5	143.1	184.9	163.6
85°	13.7	15.1	40.4	47.2	80.8	58.2	38.3	60.3	68.5	60.9
87.5°	1.4	2.1	12.3	8.9	9.6	11.6	5.5	11.6	9.6	9.6
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°
1575.5	0°	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5
1598.8	2.5°	1585.8	1575.5	1549.5	1519.3	1479.6	1460.5	1434.4	1416.6	1401.6	1402.9
1638.5	5°	1616.6	1590.5	1532.3	1459.8	1369.4	1305.0	1236.6	1189.3	1151.0	1142.8
1693.3	7.5°	1659.0	1617.9	1515.9	1385.1	1232.5	1116.7	1013.3	946.9	899.7	884.6
1759.7	10°	1713.8	1654.2	1494.7	1291.3	1071.5	924.3	813.4	761.4	729.2	718.2
1837.7	12.5°	1777.5	1696.0	1466.6	1177.0	905.9	764.1	693.6	667.6	657.3	653.9
1933.6	15°	1857.6	1748.0	1424.2	1041.4	765.5	666.2	636.1	632.7	634.0	632.7
2048.6	17.5°	1952.8	1804.9	1355.0	901.7	671.0	616.2	605.3	608.0	611.4	610.7
2177.3	20°	2056.8	1861.0	1266.7	777.8	606.6	580.6	574.5	577.2	579.9	578.6
2325.9	22.5°	2175.3	1921.3	1168.8	681.3	563.5	547.8	540.9	541.6	541.6	538.9
2514.2	25°	2317.0	1987.7	1066.1	612.8	530.6	518.3	510.1	507.4	503.3	495.0
2742.9	27.5°	2486.1	2058.2	967.5	564.9	504.6	493.0	483.4	476.5	466.3	452.6
3017.5	30°	2676.5	2143.8	883.9	534.7	484.1	472.4	461.5	451.2	436.2	419.0
3333.1	32.5°	2900.4	2235.5	823.0	514.9	465.6	453.3	440.3	427.9	411.5	394.4
3687.8	35°	3167.4	2346.5	787.4	501.2	451.2	434.8	420.4	406.7	394.4	379.3
4073.3	37.5°	3457.0	2464.2	776.4	494.4	441.6	416.3	399.9	390.3	388.9	380.0
4490.2	40°	3774.0	2603.9	784.7	490.2	431.4	398.5	380.7	378.6	382.1	366.3
4936.0	42.5°	4109.5	2769.6	798.4	485.4	417.0	380.7	363.6	363.6	360.8	338.9
5407.0	45°	4472.4	2960.6	812.0	473.8	399.9	362.9	349.9	345.1	333.4	312.2
5880.9	47.5°	4838.1	3155.1	822.3	452.6	379.3	347.8	336.2	325.2	308.1	288.9
6345.8	50°	5185.2	3329.7	811.4	421.1	356.0	333.4	321.1	306.1	287.6	274.6
6786.0	52.5°	5495.4	3481.0	764.8	384.1	331.4	318.4	307.4	291.7	276.6	262.9
7183.1	55°	5765.1	3603.6	682.6	349.2	309.5	305.4	294.4	274.6	254.0	242.4
7576.8	57.5°	6024.0	3696.7	579.9	320.4	289.6	291.0	274.6	256.8	237.6	225.3
8107.5	60°	6368.4	3821.3	475.9	293.7	268.4	272.5	254.7	241.7	217.7	202.0
9017.4	62.5°	6918.9	4015.1	378.0	260.9	243.8	245.1	237.6	221.8	193.1	174.6
9691.9	65°	7355.7	3943.8	297.8	225.3	215.7	217.7	217.7	200.6	169.8	148.6
9728.2	67.5°	7306.4	3376.9	237.6	190.3	189.0	190.3	195.1	180.8	150.6	133.5
8987.3	70°	6730.6	2686.1	190.3	158.2	164.3	160.9	174.6	165.0	135.6	118.5
6967.5	72.5°	5491.9	1935.0	145.2	130.8	126.0	131.5	157.5	148.6	113.0	93.8
3690.5	75°	3209.2	1032.5	108.2	103.4	91.1	109.6	139.7	126.7	86.3	69.2
1131.1	77.5°	1044.8	360.2	79.4	76.0	67.8	88.3	119.1	106.8	70.5	54.8
331.4	80°	280.0	108.9	54.1	50.0	43.8	65.7	94.5	84.9	50.7	35.6
142.4	82.5°	112.3	45.9	31.5	28.1	24.0	45.2	74.6	68.5	37.7	22.6
44.5	85°	36.3	15.1	11.6	8.9	11.0	28.1	44.5	46.6	26.7	11.6
6.8	87.5°	4.8	2.1	2.1	2.7	2.1	4.8	13.7	13.0	7.5	1.4
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>
1575.5
1389.2
1124.3
869.6
710.0
651.8
632.0
609.4
577.9
537.5
493.7
451.2
417.7
395.1
378.0
379.3
367.0
338.9
311.5
288.3
272.5
261.6
241.0
223.9
199.9
173.2
146.5
130.8
116.4
91.7
67.1
52.7
34.9
22.6
8.9
0.0
0.0

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