

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: P948205

Luminaire Tested: **GALN-SB3B-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3B-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

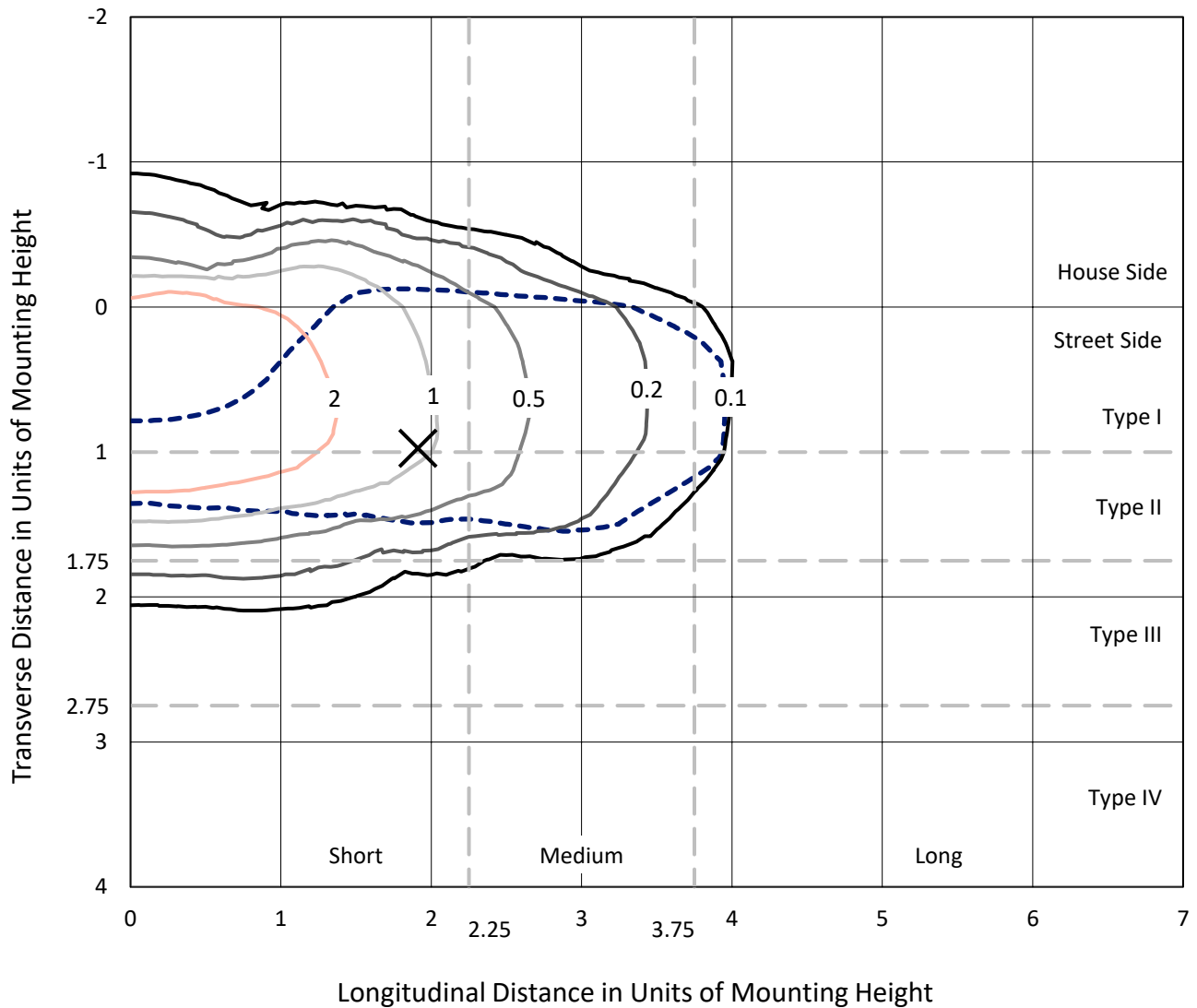
Lumens per Lamp: N/A  
Luminaire Lumens: 11228 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

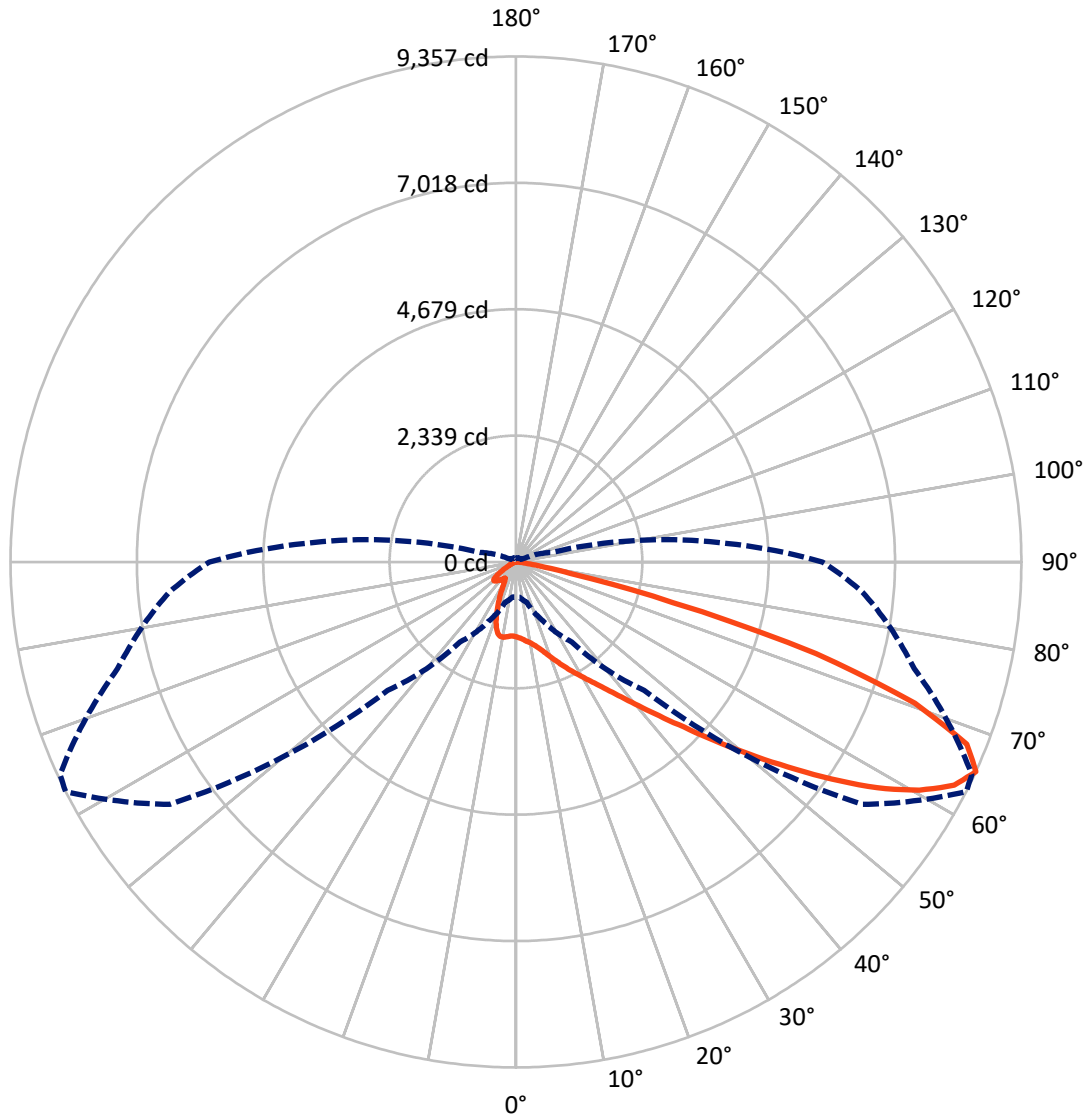
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1650.4	0.0	1650.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	9577.6	0.0	9577.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	11228.0	0.0	11228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	1.2
10°-20°	362.3	3.2
20°-30°	630.8	5.6
30°-40°	1136.9	10.1
40°-50°	2254.9	20.1
50°-60°	3071.6	27.4
60°-70°	2451.7	21.8
70°-80°	1109.5	9.9
80°-90°	79.7	0.7
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°	11228.0	100.0
0°-180°	11228.0	100.0

**Coefficient of Utilization**



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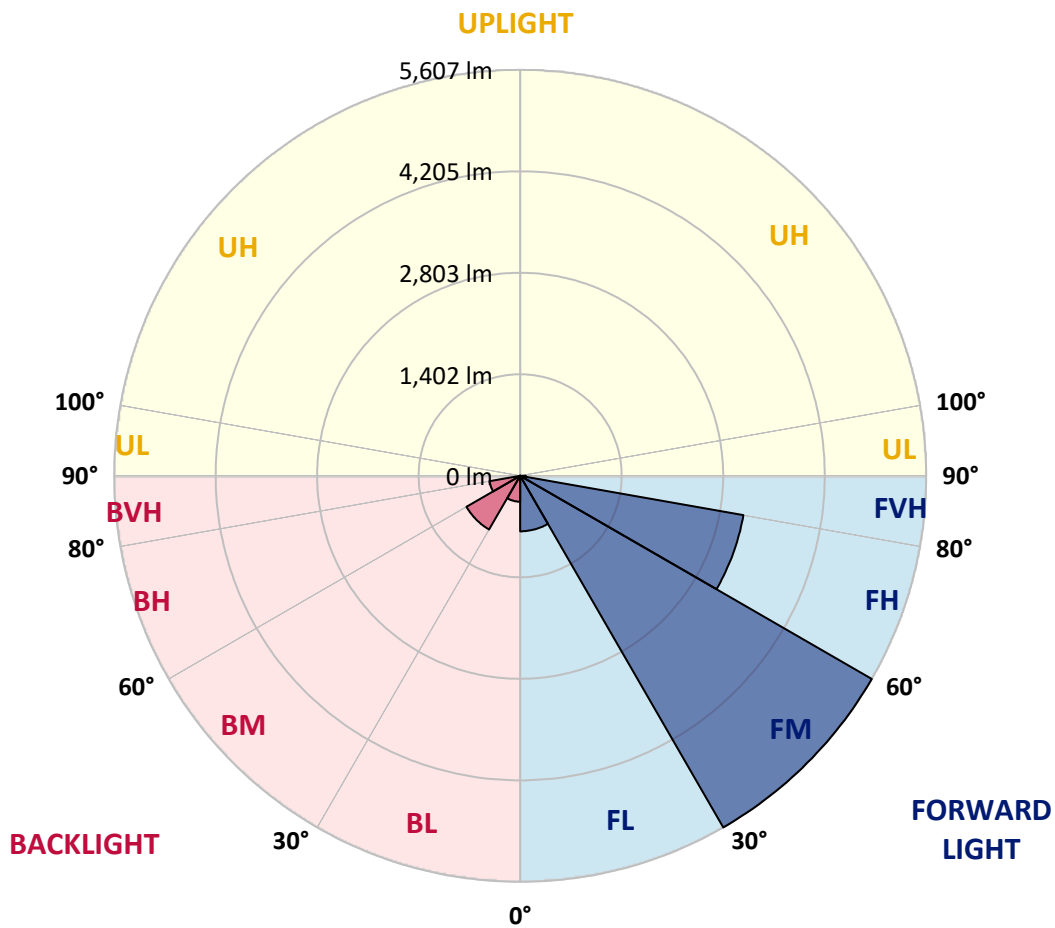
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.4	6.8			
FM (30°-60°)	5607.0	49.9			
FH (60°-80°)	3130.3	27.9			G2/5000
FVH (80°-90°)	73.8	0.7			G1/100
BL (0°-30°)	357.2	3.2	B1/500		
BM (30°-60°)	856.5	7.6	B1/1000		
BH (60°-80°)	430.9	3.8	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7
2.5°	1418.2	1414.3	1419.7	1417.4	1415.9	1412.8	1411.2	1409.7	1406.6	1404.3
5°	1422.1	1419.7	1425.1	1429.8	1434.4	1439.0	1441.4	1444.5	1441.4	1435.2
7.5°	1389.6	1388.1	1399.7	1413.6	1434.4	1452.2	1471.5	1482.3	1483.1	1480.8
10°	1387.3	1383.4	1395.0	1412.0	1439.0	1470.7	1504.7	1527.9	1531.0	1541.0
12.5°	1423.6	1419.7	1436.0	1454.5	1482.3	1515.5	1557.2	1589.7	1594.3	1608.2
15°	1484.6	1479.2	1497.8	1521.7	1557.2	1595.1	1639.1	1668.5	1672.3	1689.3
17.5°	1555.7	1550.3	1571.9	1597.4	1636.0	1687.8	1738.7	1771.2	1775.8	1786.6
20°	1646.8	1639.9	1656.9	1680.0	1721.0	1782.8	1843.8	1890.1	1889.4	1889.4
22.5°	1752.7	1741.8	1756.5	1775.1	1813.7	1888.6	1969.7	2024.6	2024.6	2002.9
25°	1866.2	1855.4	1871.6	1888.6	1922.6	2007.6	2102.6	2170.5	2173.6	2136.6
27.5°	2008.3	1994.4	2006.8	2026.9	2047.0	2133.5	2246.2	2325.0	2326.6	2269.4
30°	2281.8	2242.4	2203.8	2182.1	2191.4	2277.1	2397.6	2484.9	2492.6	2413.9
32.5°	2782.3	2774.6	2638.6	2461.0	2368.3	2431.6	2566.8	2671.9	2676.5	2575.3
35°	3560.2	3550.9	3332.3	2994.0	2691.9	2638.6	2772.3	2896.6	2893.5	2779.2
37.5°	4488.6	4480.1	4192.0	3739.4	3250.4	2951.5	3037.2	3167.8	3187.1	3037.2
40°	5281.9	5250.2	5067.9	4631.5	3991.9	3470.5	3414.2	3500.7	3520.8	3343.1
42.5°	5882.9	5855.8	5763.1	5490.5	4889.5	4238.3	3858.3	3891.5	3913.9	3700.7
45°	6194.2	6188.0	6225.0	6199.6	5804.1	5180.7	4493.3	4355.0	4363.5	4097.0
47.5°	6238.2	6235.1	6404.3	6643.7	6590.4	6243.6	5308.2	4932.8	4902.6	4544.2
50°	5978.6	5972.5	6296.9	6745.7	7115.7	7136.5	6233.5	5583.9	5517.5	5006.9
52.5°	5149.8	5148.3	5681.3	6428.2	7300.3	7918.2	7148.1	6299.2	6188.0	5496.6
55°	3962.6	3991.2	4602.2	5485.1	6963.5	8294.4	7969.2	7093.3	6922.6	5989.5
57.5°	2807.0	2848.7	3452.8	4239.1	5919.2	8071.9	8524.6	7888.9	7705.0	6480.7
60°	1507.8	1544.9	2149.7	3088.2	4403.6	7242.3	8817.3	8579.4	8405.6	6947.3
62.5°	898.3	910.7	1161.0	1993.7	2978.5	5532.9	8693.0	9105.5	8962.6	7338.9
65°	645.0	647.3	773.2	1217.4	1808.3	3361.6	7820.9	9357.3	9313.2	7634.0
67.5°	543.0	541.5	594.0	808.7	1232.0	1683.9	5994.1	9001.2	9188.1	7820.9
70°	465.8	468.1	529.9	592.5	926.1	953.2	2980.1	7837.1	8235.7	7870.3
72.5°	346.8	354.5	411.7	539.9	699.1	655.8	1028.9	5811.0	6531.7	7415.4
75°	244.9	248.7	289.7	454.2	521.4	477.4	525.3	3004.0	3927.8	5685.1
77.5°	188.5	195.4	219.4	317.5	513.7	335.2	321.3	1039.7	1597.4	3434.2
80°	102.0	114.3	158.3	229.4	360.7	237.1	159.1	414.0	541.5	1605.9
82.5°	52.5	58.7	110.5	165.3	205.5	207.0	78.8	172.3	223.2	495.9
85°	20.9	25.5	74.2	91.1	105.8	102.0	35.5	69.5	80.3	137.5
87.5°	4.6	7.7	27.0	20.9	20.1	21.6	8.5	16.2	15.4	16.2
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°
1385.7	0°	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7	1385.7
1395.0	2.5°	1394.2	1391.2	1382.7	1373.4	1362.6	1356.4	1352.5	1351.8	1346.4	1342.5
1425.9	5°	1417.4	1414.3	1398.1	1378.8	1357.9	1341.7	1326.3	1312.4	1292.3	1288.4
1470.7	7.5°	1463.8	1455.3	1429.0	1402.7	1363.3	1316.2	1259.1	1193.4	1134.7	1116.9
1530.2	10°	1520.9	1509.3	1476.1	1429.8	1342.5	1214.3	1076.0	947.8	845.8	817.2
1600.5	12.5°	1585.8	1575.8	1531.7	1446.0	1255.2	1022.7	811.1	651.9	553.1	528.3
1675.4	15°	1663.1	1648.4	1587.4	1421.3	1099.2	777.1	556.9	462.7	427.2	422.5
1761.2	17.5°	1744.9	1721.0	1636.8	1332.4	889.1	552.3	430.2	403.2	387.8	383.1
1847.7	20°	1819.9	1789.0	1666.1	1198.0	664.3	430.2	385.4	367.7	353.8	348.4
1934.2	22.5°	1894.8	1850.8	1666.1	1015.0	498.2	381.6	353.8	337.6	321.3	314.4
2026.9	25°	1972.8	1914.1	1636.8	811.1	400.9	349.9	323.7	305.9	292.0	283.5
2114.9	27.5°	2048.5	1967.4	1569.6	617.9	356.9	322.1	295.8	278.8	265.7	259.5
2210.7	30°	2120.3	2019.9	1475.3	468.9	328.3	295.1	270.4	255.7	242.5	236.4
2335.1	32.5°	2217.7	2086.3	1374.9	384.7	303.6	269.6	247.2	233.3	221.7	217.1
2496.5	35°	2352.8	2184.4	1288.4	377.7	282.7	248.7	226.3	213.2	201.6	197.7
2705.1	37.5°	2544.4	2342.8	1242.8	424.1	265.7	230.2	209.3	195.4	184.6	181.5
2970.0	40°	2780.8	2557.5	1267.6	470.4	254.1	214.0	193.9	180.0	170.7	166.8
3274.3	42.5°	3061.2	2822.5	1404.3	505.9	246.4	200.1	179.2	163.8	157.6	156.0
3619.6	45°	3383.3	3113.7	1613.6	543.8	234.0	186.9	164.5	152.9	148.3	147.5
3995.0	47.5°	3749.4	3433.5	1856.2	590.9	221.7	174.6	152.9	145.2	141.4	139.8
4386.7	50°	4112.4	3755.6	2105.7	617.2	211.6	163.0	143.7	137.5	134.4	133.6
4800.7	52.5°	4492.5	4087.0	2307.3	592.5	203.2	153.7	135.9	131.3	128.2	127.5
5182.3	55°	4854.8	4355.0	2342.0	502.9	186.2	144.4	127.5	125.1	121.3	121.3
5569.3	57.5°	5166.8	4489.4	2096.4	369.2	169.2	130.5	119.0	116.6	113.5	112.8
5918.4	60°	5453.4	4450.8	1618.3	248.7	150.6	116.6	108.1	106.6	103.5	99.6
6222.0	62.5°	5614.8	4280.8	1106.9	162.2	132.1	102.0	95.8	95.0	88.1	80.3
6446.7	65°	5675.8	3931.7	690.6	118.2	110.5	87.3	82.7	81.1	71.1	62.6
6574.2	67.5°	5622.6	3357.0	348.4	93.5	87.3	72.6	68.0	68.0	61.0	53.3
6566.5	70°	5409.4	2516.6	146.8	74.9	67.2	55.6	55.6	58.7	51.8	43.3
6225.8	72.5°	4946.7	1693.2	78.0	57.2	50.2	39.4	45.6	47.9	40.9	32.4
5095.7	75°	3932.5	1032.7	54.1	42.5	31.7	27.8	34.8	36.3	27.8	21.6
3493.7	77.5°	2689.6	593.2	36.3	27.0	20.1	16.2	23.9	22.4	14.7	10.0
1347.1	80°	1181.1	247.2	20.9	12.4	7.7	6.2	8.5	6.2	4.6	3.1
184.6	82.5°	138.3	57.9	7.7	4.6	3.1	1.5	0.8	0.0	0.0	0.0
56.4	85°	28.6	7.0	3.9	1.5	0.8	0.0	0.0	0.0	0.0	0.0
10.0	87.5°	5.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1385.7
1346.4
1286.9
1108.4
806.4
521.4
417.9
380.8
345.3
310.5
280.4
259.5
237.1
217.1
197.7
180.7
166.1
156.0
146.8
139.8
133.6
127.5
120.5
112.0
98.9
78.8
61.8
52.5
42.5
32.4
20.9
10.8
3.1
0.0
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