

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: P948209

Luminaire Tested: **GALN-SB3B-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

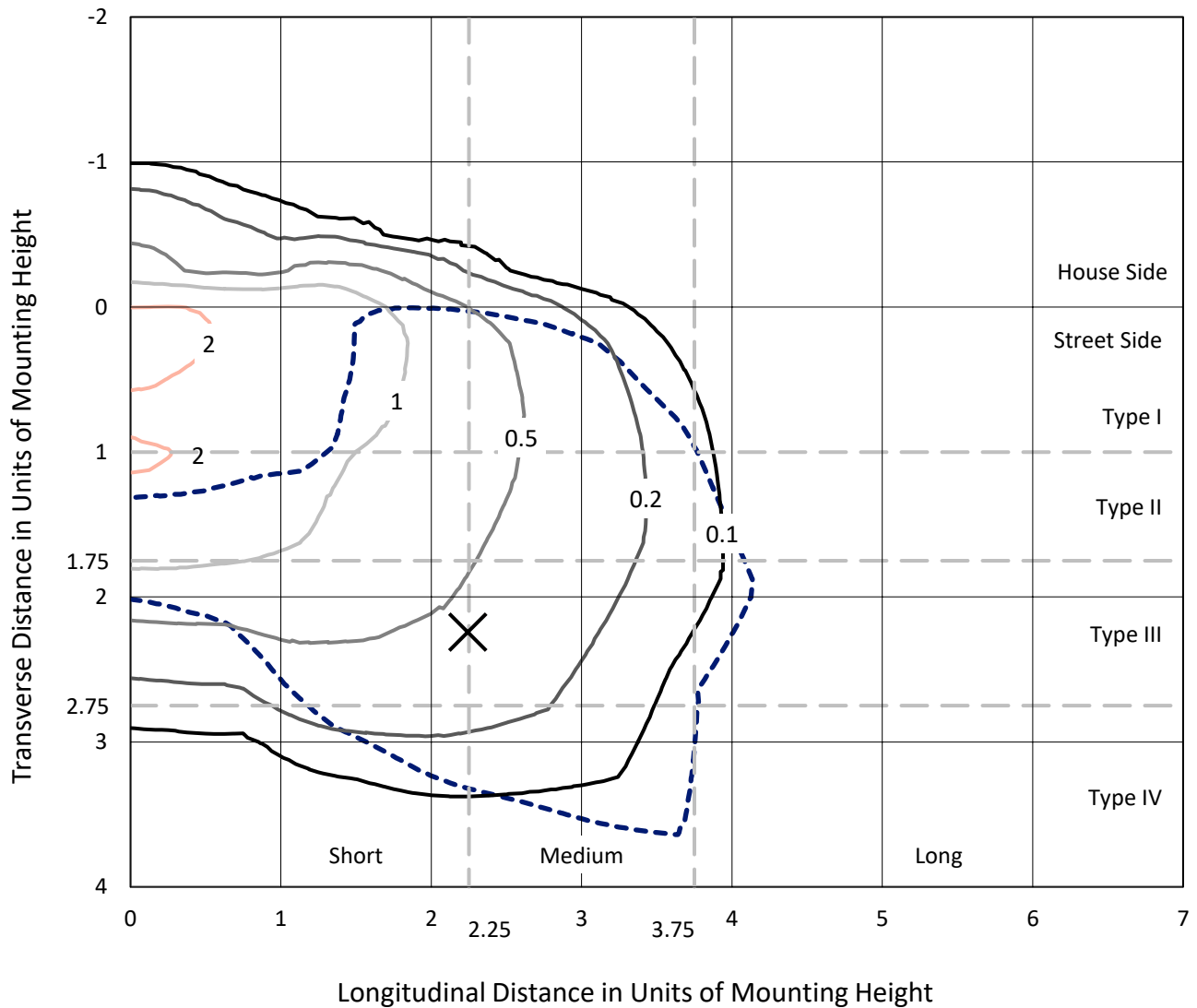
Lumens per Lamp: N/A  
Luminaire Lumens: 11317 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

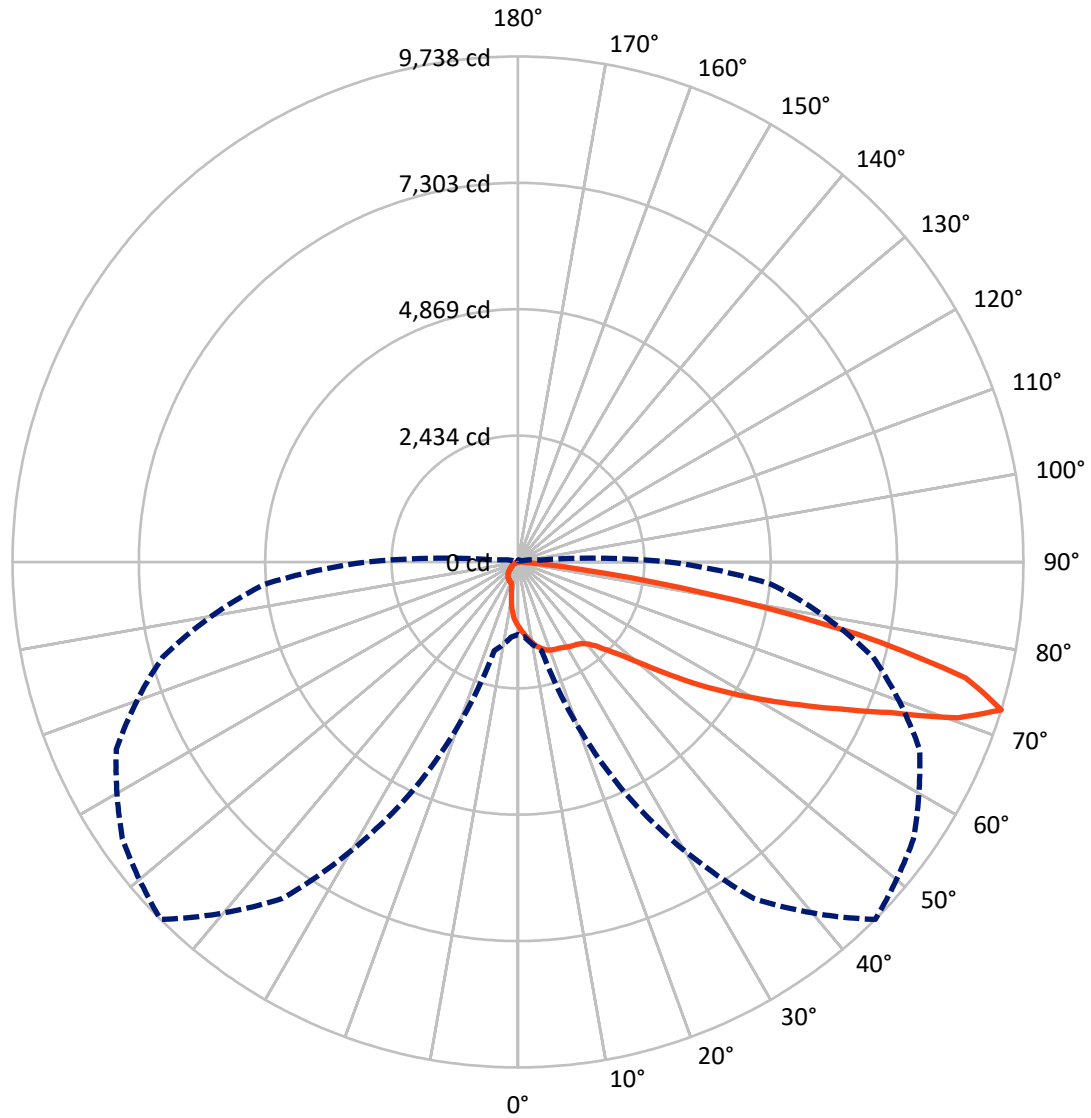
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1189.1	0.0	1189.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	10127.9	0.0	10127.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	11317.0	0.0	11317.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.8	1.0
10°-20°	341.4	3.0
20°-30°	560.6	5.0
30°-40°	795.1	7.0
40°-50°	1314.2	11.6
50°-60°	2360.9	20.9
60°-70°	3278.2	29.0
70°-80°	2377.9	21.0
80°-90°	171.9	1.5
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°	11317.0	100.0
0°-180°	11317.0	100.0

**Coefficient of Utilization**



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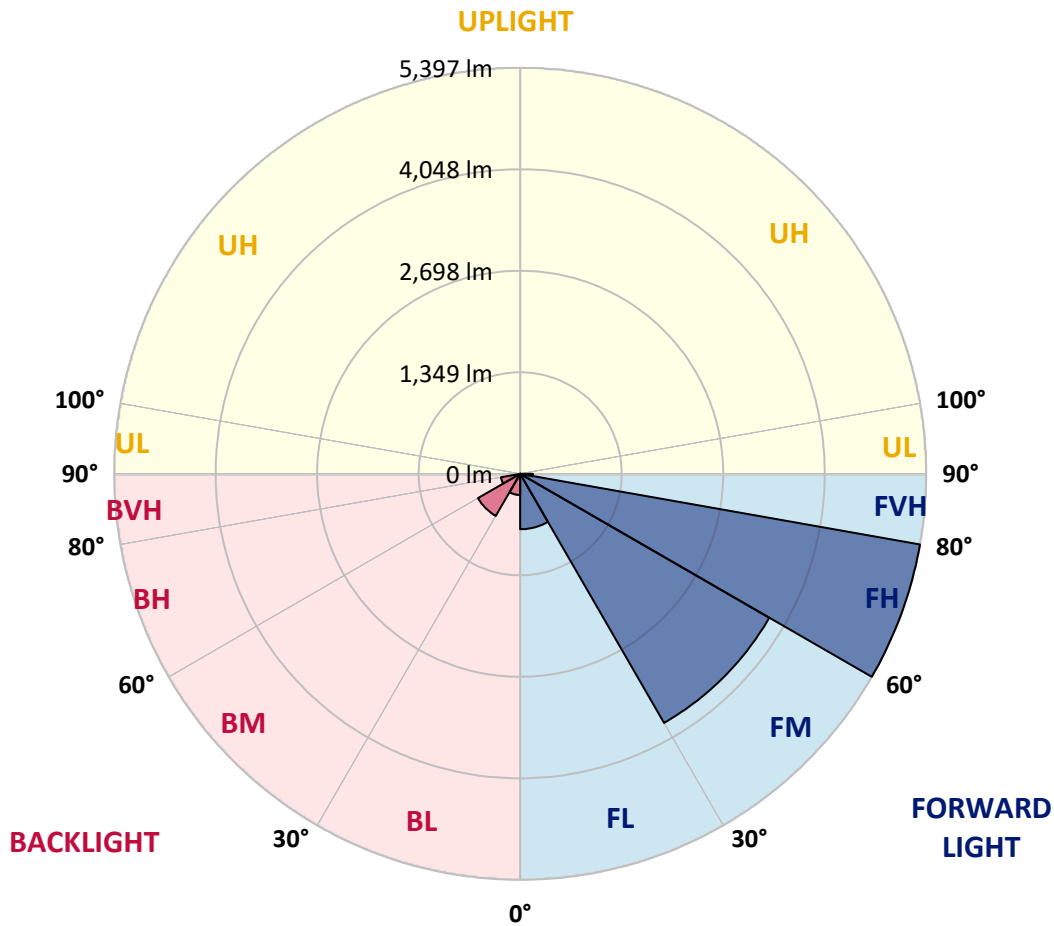
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.2	6.5			
FM (30°-60°)	3823.5	33.8			
FH (60°-80°)	5396.8	47.7			G3/7500
FVH (80°-90°)	170.5	1.5			G2/225
BL (0°-30°)	281.7	2.5	B1/500		
BM (30°-60°)	646.7	5.7	B1/1000		
BH (60°-80°)	259.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1354.1	1356.4	1354.9	1345.6	1330.2	1321.7	1317.0	1301.6	1291.6	1273.8
5°	1478.5	1487.8	1482.4	1463.8	1434.5	1413.6	1407.4	1375.8	1347.2	1314.0
7.5°	1610.6	1615.2	1605.2	1581.2	1541.8	1506.3	1500.9	1456.9	1411.3	1360.3
10°	1724.9	1730.3	1714.9	1680.1	1635.3	1591.3	1583.5	1534.9	1480.8	1418.2
12.5°	1820.7	1826.1	1806.0	1764.3	1714.9	1669.3	1661.6	1610.6	1551.1	1481.6
15°	1893.3	1903.3	1876.3	1831.5	1778.2	1732.6	1728.8	1678.6	1620.6	1543.4
17.5°	1935.8	1945.8	1920.3	1866.3	1820.7	1782.1	1777.4	1735.7	1681.6	1607.5
20°	1942.7	1952.0	1925.0	1877.9	1840.0	1809.1	1806.8	1776.7	1737.3	1666.2
22.5°	1921.9	1933.5	1908.8	1870.9	1844.6	1828.4	1825.3	1808.3	1785.9	1725.7
25°	1900.3	1909.5	1891.0	1857.8	1843.9	1842.3	1844.6	1841.5	1836.9	1785.9
27.5°	1898.7	1908.8	1887.9	1856.2	1848.5	1864.7	1867.0	1881.7	1885.6	1840.8
30°	1911.8	1918.8	1898.7	1865.5	1861.6	1898.7	1899.5	1925.7	1931.9	1887.1
32.5°	1940.4	1948.1	1928.1	1879.4	1874.0	1925.7	1928.1	1962.8	1972.9	1936.6
35°	2007.6	2016.9	1993.7	1918.0	1898.7	1951.2	1958.2	1999.1	2019.2	1989.1
37.5°	2175.3	2148.2	2116.5	1996.0	1955.1	1991.4	2003.0	2050.9	2086.4	2051.7
40°	2591.6	2506.6	2407.8	2128.9	2054.0	2077.2	2086.4	2134.3	2183.0	2149.0
42.5°	3216.5	3116.1	2957.0	2434.8	2203.1	2214.6	2221.6	2263.3	2332.1	2305.0
45°	3773.5	3737.2	3575.0	2957.0	2481.9	2424.8	2433.3	2454.9	2556.1	2546.0
47.5°	4201.4	4180.6	4055.4	3556.4	2953.1	2682.0	2705.9	2716.0	2862.0	2897.5
50°	4530.5	4522.8	4410.8	4089.4	3568.8	3061.3	3069.8	3048.1	3266.7	3354.8
52.5°	4841.0	4867.3	4784.6	4584.6	4226.1	3558.0	3556.4	3454.4	3749.5	3882.4
55°	5121.4	5130.7	5139.2	5089.8	4887.4	4123.4	4108.7	3941.9	4309.6	4447.1
57.5°	5384.8	5388.7	5464.4	5565.6	5575.6	4730.6	4703.5	4503.5	4921.4	5019.5
60°	5561.7	5579.5	5739.4	6020.6	6143.4	5357.0	5342.3	5138.4	5544.0	5589.5
62.5°	5306.8	5415.0	5818.2	6375.9	6679.5	6051.5	6044.5	5852.9	6199.0	6161.9
65°	4295.7	4478.7	5187.9	6616.1	7205.5	6827.0	6837.1	6633.1	6871.8	6751.3
67.5°	3004.9	3198.0	4036.9	6635.4	7793.4	7737.8	7795.7	7475.9	7586.3	7316.0
70°	2077.9	2177.6	2723.7	6219.9	8251.4	8992.2	8990.7	8511.0	8297.0	7573.2
72.5°	1397.4	1449.1	1768.9	4934.5	7914.6	9737.7	9692.9	9302.0	8536.5	7082.7
75°	589.4	627.2	818.8	2773.1	6261.6	8908.8	8787.5	8220.5	7584.8	5577.2
77.5°	186.9	203.2	322.9	992.6	3449.0	6696.5	6568.2	5133.8	5083.6	2797.9
80°	88.8	103.5	181.5	398.6	1357.2	3642.2	3624.4	2329.0	2186.8	755.5
82.5°	38.6	45.6	100.4	213.2	607.2	1299.3	1325.5	792.5	655.8	286.6
85°	12.4	16.2	46.3	98.1	256.5	322.9	319.0	188.5	264.2	156.0
87.5°	0.0	0.0	15.4	22.4	26.3	18.5	20.9	16.2	73.4	43.3
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°
1239.8	0°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8
1255.3	2.5°	1246.0	1233.6	1212.0	1191.9	1174.1	1156.4	1145.6	1130.1	1128.6	1128.6
1275.3	5°	1254.5	1234.4	1195.8	1154.8	1107.7	1062.9	1018.1	974.8	960.9	950.9
1307.8	7.5°	1279.2	1247.5	1186.5	1108.5	1018.9	920.8	852.0	777.9	749.3	733.8
1351.0	10°	1314.7	1271.5	1178.8	1042.1	896.8	763.2	665.1	584.8	553.9	540.7
1398.2	12.5°	1354.1	1300.8	1164.9	959.4	763.2	603.3	507.5	470.4	465.8	465.8
1454.5	15°	1401.2	1336.4	1140.9	862.1	623.4	477.4	443.4	444.9	449.6	452.7
1509.4	17.5°	1449.9	1374.2	1103.1	753.2	499.8	429.5	430.3	432.6	436.4	439.5
1568.9	20°	1502.4	1412.1	1052.9	637.3	428.7	415.6	417.9	420.2	423.3	424.9
1624.5	22.5°	1558.8	1447.6	993.4	523.7	404.8	404.0	404.8	407.1	410.9	410.9
1689.4	25°	1619.1	1487.0	925.4	441.1	392.4	392.4	394.0	395.5	398.6	398.6
1751.9	27.5°	1680.9	1523.3	853.6	397.8	381.6	380.8	380.8	383.1	384.7	385.5
1813.7	30°	1748.9	1565.8	781.7	388.5	373.1	369.2	366.9	368.5	370.0	370.8
1878.6	32.5°	1818.4	1606.7	717.6	392.4	364.6	357.6	349.9	348.4	348.4	351.5
1945.8	35°	1895.6	1651.5	668.2	405.5	360.0	340.7	328.3	321.3	322.1	326.8
2026.2	37.5°	1988.3	1705.6	631.9	417.1	356.9	321.3	301.3	292.8	287.4	292.8
2136.6	40°	2109.6	1785.2	605.6	426.4	353.0	298.9	271.9	258.0	248.0	251.1
2308.1	42.5°	2288.0	1910.3	595.6	427.2	344.5	272.7	241.8	223.2	208.6	209.3
2566.1	45°	2538.3	2108.0	647.3	417.1	326.0	244.1	210.1	185.4	176.1	173.8
2951.6	47.5°	2881.3	2396.2	767.1	396.3	298.9	216.3	179.2	158.4	151.4	147.5
3457.5	50°	3340.9	2766.2	899.9	373.1	271.9	190.0	153.7	140.6	136.0	132.1
4057.7	52.5°	3873.9	3141.6	1008.8	349.9	244.9	166.9	137.5	129.8	125.9	122.8
4637.1	55°	4362.9	3400.4	1002.7	325.2	218.6	148.3	125.9	121.3	116.6	113.6
5136.1	57.5°	4667.2	3436.7	826.5	298.2	188.5	133.6	115.1	112.0	106.6	102.7
5567.9	60°	4807.0	3229.7	579.3	262.6	158.4	119.7	103.5	102.0	95.0	89.6
5976.5	62.5°	4832.5	2845.0	386.2	218.6	132.1	106.6	91.9	89.6	80.3	71.1
6308.7	65°	4729.0	2295.0	267.3	170.7	112.8	92.7	78.8	74.2	64.1	54.8
6387.5	67.5°	4401.5	1611.4	186.2	122.8	95.8	73.4	62.6	61.0	53.3	45.6
5985.8	70°	3801.3	918.5	124.4	91.9	75.7	50.2	49.4	51.0	43.3	37.1
4890.5	72.5°	2914.5	420.2	77.2	67.2	51.8	34.0	39.4	40.2	33.2	27.8
3051.2	75°	1715.6	180.0	48.7	43.3	26.3	22.4	28.6	29.4	22.4	17.8
1115.4	77.5°	584.0	68.0	30.9	25.5	13.1	12.4	18.5	18.5	12.4	7.0
224.0	80°	132.9	25.5	15.4	10.0	6.2	5.4	6.2	5.4	3.1	0.8
68.7	82.5°	37.9	10.0	6.2	3.9	2.3	2.3	0.8	0.0	0.0	0.0
23.9	85°	10.8	4.6	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	4.6	0.8	0.0	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>
1239.8
1132.4
955.5
736.2
540.7
465.8
452.7
439.5
425.6
412.5
399.4
386.2
372.3
353.8
329.1
291.2
249.5
206.2
170.7
145.2
131.3
122.0
112.0
102.0
88.1
66.4
51.8
43.3
34.0
24.7
15.4
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