

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: P948230

Luminaire Tested: **GALN-SB3B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948230
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-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 11694 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

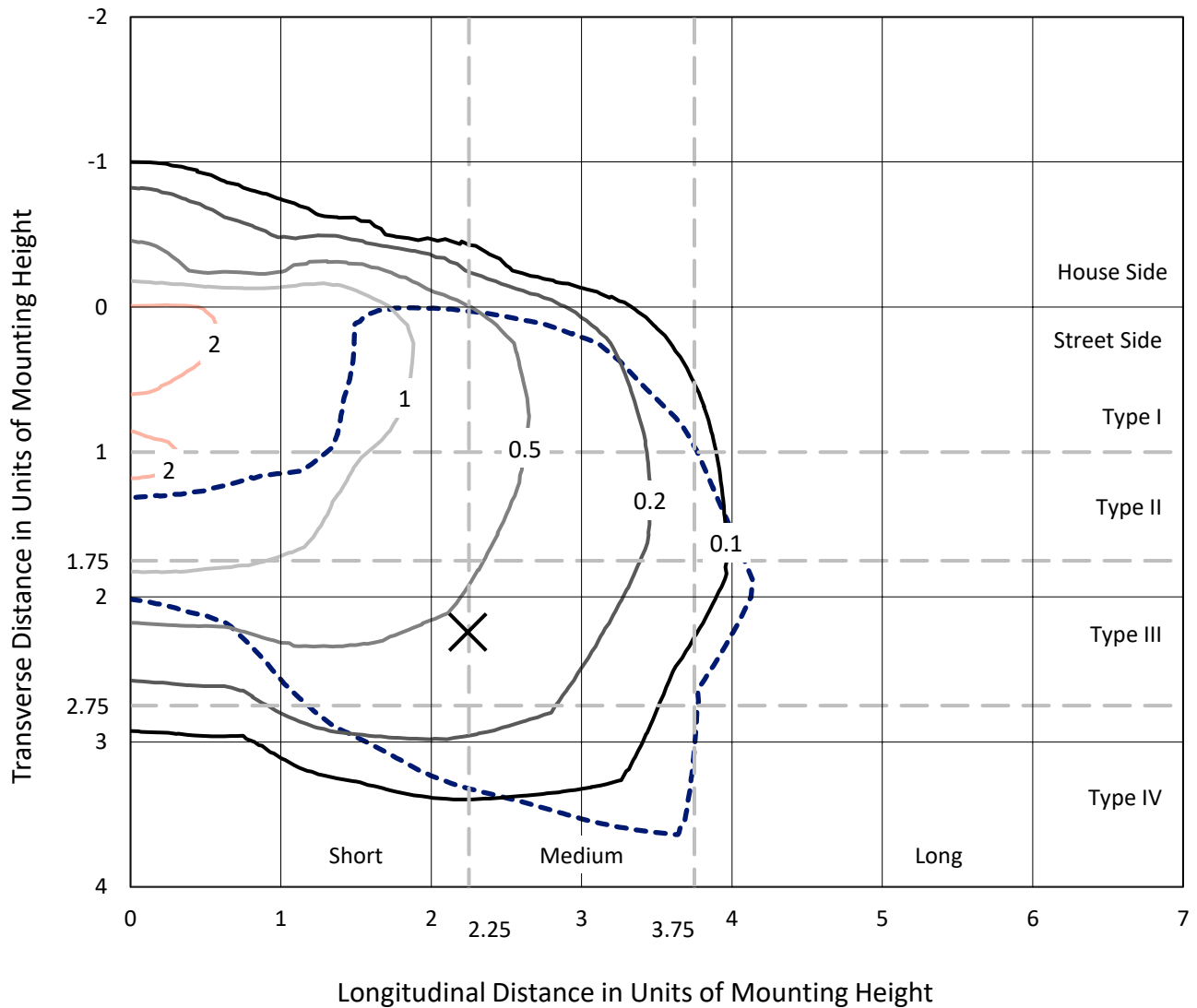
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

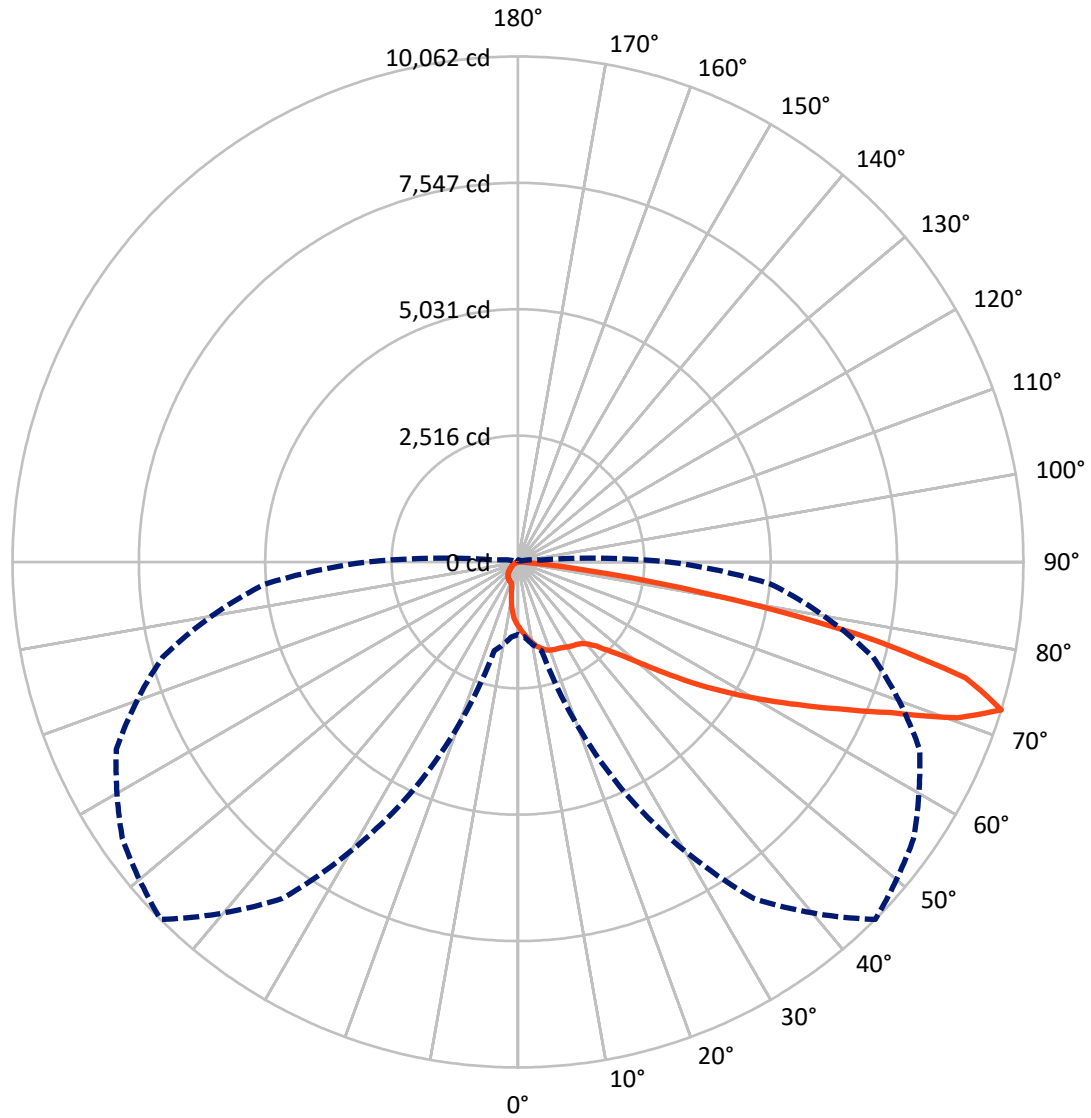
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
House Side	Lumens	1228.7	0.0	1228.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10465.3	0.0	10465.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	11694.0	0.0	11694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	1.0
10°-20°	352.8	3.0
20°-30°	579.3	5.0
30°-40°	821.6	7.0
40°-50°	1358.0	11.6
50°-60°	2439.5	20.9
60°-70°	3387.4	29.0
70°-80°	2457.1	21.0
80°-90°	177.6	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°	11694.0	100.0
0°-180°	11694.0	100.0

Coefficient of Utilization



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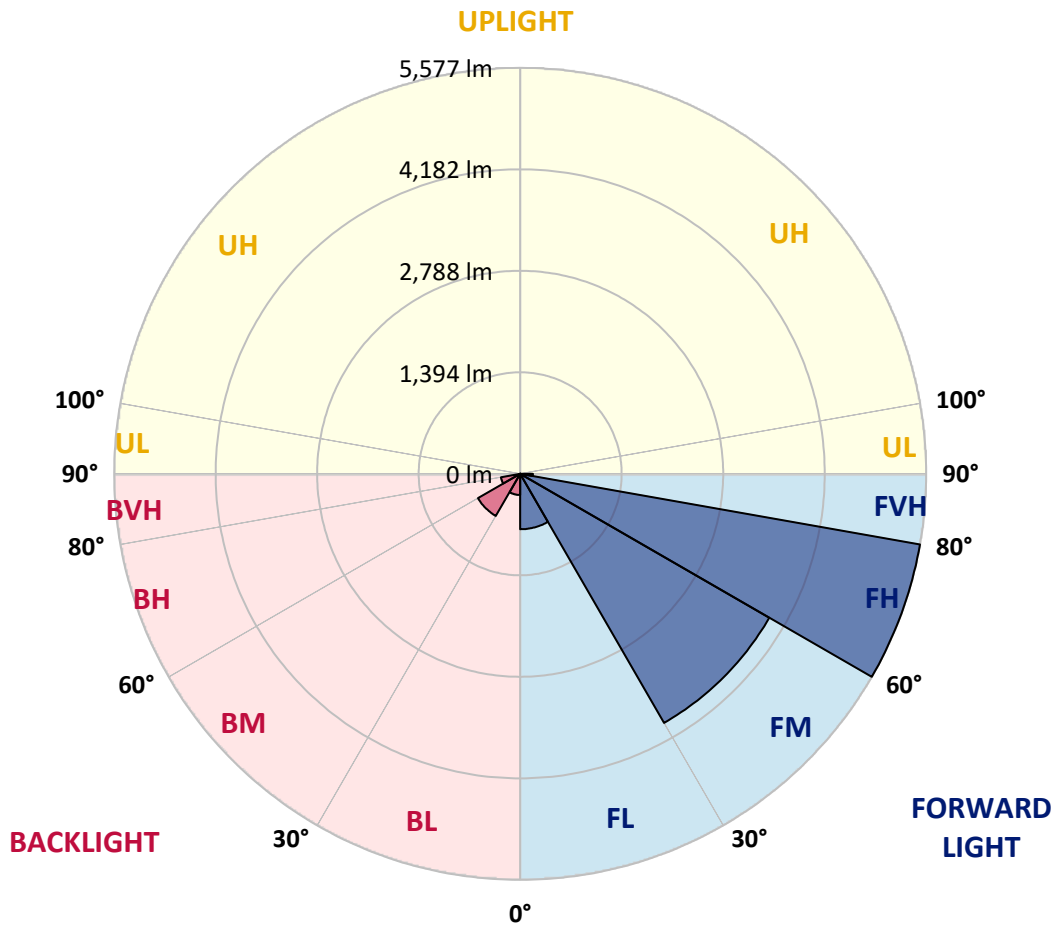
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.7	6.5			
FM (30°-60°)	3950.9	33.8			
FH (60°-80°)	5576.5	47.7			G3/7500
FVH (80°-90°)	176.1	1.5			G2/225
BL (0°-30°)	291.0	2.5	B1/500		
BM (30°-60°)	668.2	5.7	B1/1000		
BH (60°-80°)	267.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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°	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1
2.5°	1399.2	1401.6	1400.0	1390.5	1374.5	1365.7	1360.9	1345.0	1334.6	1316.2
5°	1527.7	1537.3	1531.7	1512.6	1482.2	1460.7	1454.3	1421.6	1392.1	1357.7
7.5°	1664.2	1669.0	1658.6	1633.9	1593.2	1556.5	1550.9	1505.4	1458.3	1405.6
10°	1782.4	1788.0	1772.0	1736.1	1689.8	1644.3	1636.3	1586.0	1530.1	1465.5
12.5°	1881.3	1886.9	1866.2	1823.1	1772.0	1724.9	1716.9	1664.2	1602.8	1530.9
15°	1956.4	1966.8	1938.8	1892.5	1837.4	1790.4	1786.4	1734.5	1674.6	1594.8
17.5°	2000.3	2010.7	1984.3	1928.4	1881.3	1841.4	1836.6	1793.5	1737.7	1661.0
20°	2007.5	2017.0	1989.1	1940.4	1901.3	1869.4	1867.0	1835.8	1795.1	1721.7
22.5°	1985.9	1997.9	1972.3	1933.2	1906.1	1889.3	1886.1	1868.6	1845.4	1783.2
25°	1963.6	1973.1	1954.0	1919.7	1905.3	1903.7	1906.1	1902.9	1898.1	1845.4
27.5°	1962.0	1972.3	1950.8	1918.1	1910.1	1926.8	1929.2	1944.4	1948.4	1902.1
30°	1975.5	1982.7	1962.0	1927.6	1923.6	1962.0	1962.8	1989.9	1996.3	1950.0
32.5°	2005.1	2013.0	1992.3	1942.0	1936.4	1989.9	1992.3	2028.2	2038.6	2001.1
35°	2074.5	2084.1	2060.1	1981.9	1962.0	2016.2	2023.4	2065.7	2086.5	2055.4
37.5°	2247.7	2219.8	2187.1	2062.5	2020.2	2057.7	2069.7	2119.2	2155.9	2120.0
40°	2677.9	2590.1	2488.0	2199.8	2122.4	2146.3	2155.9	2205.4	2255.7	2220.6
42.5°	3323.7	3219.9	3055.5	2515.9	2276.5	2288.4	2295.6	2338.7	2409.7	2381.8
45°	3899.2	3861.7	3694.0	3055.5	2564.6	2505.5	2514.3	2536.7	2641.2	2630.8
47.5°	4341.4	4319.8	4190.5	3674.9	3051.5	2771.3	2796.1	2806.5	2957.3	2994.0
50°	4681.4	4673.4	4557.7	4225.6	3687.7	3163.2	3172.0	3149.7	3375.6	3466.6
52.5°	5002.3	5029.4	4944.0	4737.3	4366.9	3676.5	3674.9	3569.5	3874.4	4011.7
55°	5292.0	5301.6	5310.4	5259.3	5050.2	4260.8	4245.6	4073.2	4453.1	4595.2
57.5°	5564.2	5568.2	5646.4	5751.0	5761.4	4888.1	4860.2	4653.5	5085.3	5186.7
60°	5747.0	5765.4	5930.6	6221.1	6348.0	5535.5	5520.3	5309.6	5728.6	5775.7
62.5°	5483.6	5595.3	6012.0	6588.3	6902.0	6253.1	6245.9	6047.9	6405.5	6367.2
65°	4438.8	4627.9	5360.7	6836.5	7445.6	7054.4	7064.8	6854.1	7100.7	6976.2
67.5°	3105.0	3304.5	4171.4	6856.5	8053.0	7995.5	8055.4	7724.9	7839.1	7559.7
70°	2147.1	2250.1	2814.4	6427.1	8526.3	9291.8	9290.2	8794.5	8573.4	7825.5
72.5°	1443.9	1497.4	1827.9	5098.9	8178.3	10062.0	10015.7	9611.9	8820.9	7318.6
75°	609.0	648.1	846.1	2865.5	6470.2	9205.6	9080.3	8494.4	7837.5	5763.0
77.5°	193.2	209.9	333.6	1025.7	3563.9	6919.6	6787.0	5304.8	5252.9	2891.1
80°	91.8	107.0	187.6	411.9	1402.4	3763.5	3745.1	2406.6	2259.7	780.6
82.5°	39.9	47.1	103.8	220.3	627.4	1342.6	1369.7	818.9	677.7	296.1
85°	12.8	16.8	47.9	101.4	265.0	333.6	329.7	194.8	273.0	161.2
87.5°	0.0	0.0	16.0	23.1	27.1	19.2	21.6	16.8	75.8	44.7
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°
1281.1	0°	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1
1297.1	2.5°	1287.5	1274.7	1252.4	1231.6	1213.3	1194.9	1183.7	1167.8	1166.2	1166.2
1317.8	5°	1296.3	1275.5	1235.6	1193.3	1144.6	1098.3	1052.0	1007.3	993.0	982.6
1351.3	7.5°	1321.8	1289.1	1226.0	1145.4	1052.8	951.4	880.4	803.8	774.2	758.3
1396.0	10°	1358.5	1313.8	1218.0	1076.8	926.7	788.6	687.2	604.2	572.3	558.7
1444.7	12.5°	1399.2	1344.2	1203.7	991.4	788.6	623.4	524.4	486.1	481.3	481.3
1503.0	15°	1447.9	1380.9	1178.9	890.8	644.1	493.3	458.2	459.8	464.5	467.7
1559.7	17.5°	1498.2	1420.0	1139.8	778.2	516.4	443.8	444.6	447.0	451.0	454.2
1621.1	20°	1552.5	1459.1	1087.9	658.5	443.0	429.4	431.8	434.2	437.4	439.0
1678.6	22.5°	1610.8	1495.8	1026.5	541.2	418.3	417.5	418.3	420.6	424.6	424.6
1745.7	25°	1673.0	1536.5	956.2	455.8	405.5	405.5	407.1	408.7	411.9	411.9
1810.3	27.5°	1736.9	1574.0	882.0	411.1	394.3	393.5	393.5	395.9	397.5	398.3
1874.2	30°	1807.1	1617.9	807.8	401.5	385.5	381.5	379.1	380.7	382.3	383.1
1941.2	32.5°	1879.0	1660.2	741.5	405.5	376.7	369.6	361.6	360.0	360.0	363.2
2010.7	35°	1958.8	1706.5	690.4	419.1	372.0	352.0	339.2	332.0	332.8	337.6
2093.7	37.5°	2054.6	1762.4	652.9	431.0	368.8	332.0	311.3	302.5	296.9	302.5
2207.8	40°	2179.9	1844.6	625.8	440.6	364.8	308.9	281.0	266.6	256.2	259.4
2385.0	42.5°	2364.3	1973.9	615.4	441.4	356.0	281.8	249.8	230.7	215.5	216.3
2651.6	45°	2622.9	2178.3	668.9	431.0	336.8	252.2	217.1	191.6	182.0	179.6
3049.9	47.5°	2977.3	2476.0	792.6	409.5	308.9	223.5	185.2	163.6	156.4	152.5
3572.7	50°	3452.2	2858.3	929.9	385.5	281.0	196.4	158.8	145.3	140.5	136.5
4192.9	52.5°	4002.9	3246.3	1042.4	361.6	253.0	172.4	142.1	134.1	130.1	126.9
4791.6	55°	4508.2	3513.7	1036.1	336.0	225.9	153.3	130.1	125.3	120.5	117.3
5307.2	57.5°	4822.7	3551.2	854.1	308.1	194.8	138.1	118.9	115.7	110.2	106.2
5753.4	60°	4967.2	3337.3	598.6	271.4	163.6	123.7	107.0	105.4	98.2	92.6
6175.6	62.5°	4993.5	2939.8	399.1	225.9	136.5	110.2	95.0	92.6	83.0	73.4
6518.9	65°	4886.5	2371.4	276.2	176.4	116.5	95.8	81.4	76.6	66.3	56.7
6600.3	67.5°	4548.1	1665.0	192.4	126.9	99.0	75.8	64.7	63.1	55.1	47.1
6185.2	70°	3927.9	949.1	128.5	95.0	78.2	51.9	51.1	52.7	44.7	38.3
5053.4	72.5°	3011.6	434.2	79.8	69.4	53.5	35.1	40.7	41.5	34.3	28.7
3152.9	75°	1772.8	186.0	50.3	44.7	27.1	23.1	29.5	30.3	23.1	18.4
1152.6	77.5°	603.4	70.2	31.9	26.3	13.6	12.8	19.2	19.2	12.8	7.2
231.5	80°	137.3	26.3	16.0	10.4	6.4	5.6	6.4	5.6	3.2	0.8
71.0	82.5°	39.1	10.4	6.4	4.0	2.4	2.4	0.8	0.0	0.0	0.0
24.7	85°	11.2	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
8.8	87.5°	4.8	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>
1281.1
1170.2
987.4
760.7
558.7
481.3
467.7
454.2
439.8
426.2
412.7
399.1
384.7
365.6
340.0
300.9
257.8
213.1
176.4
150.1
135.7
126.1
115.7
105.4
91.0
68.6
53.5
44.7
35.1
25.5
16.0
5.6
0.0
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