

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: P948289

Luminaire Tested: **GALN-SB3B-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948289
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-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 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: 12351 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

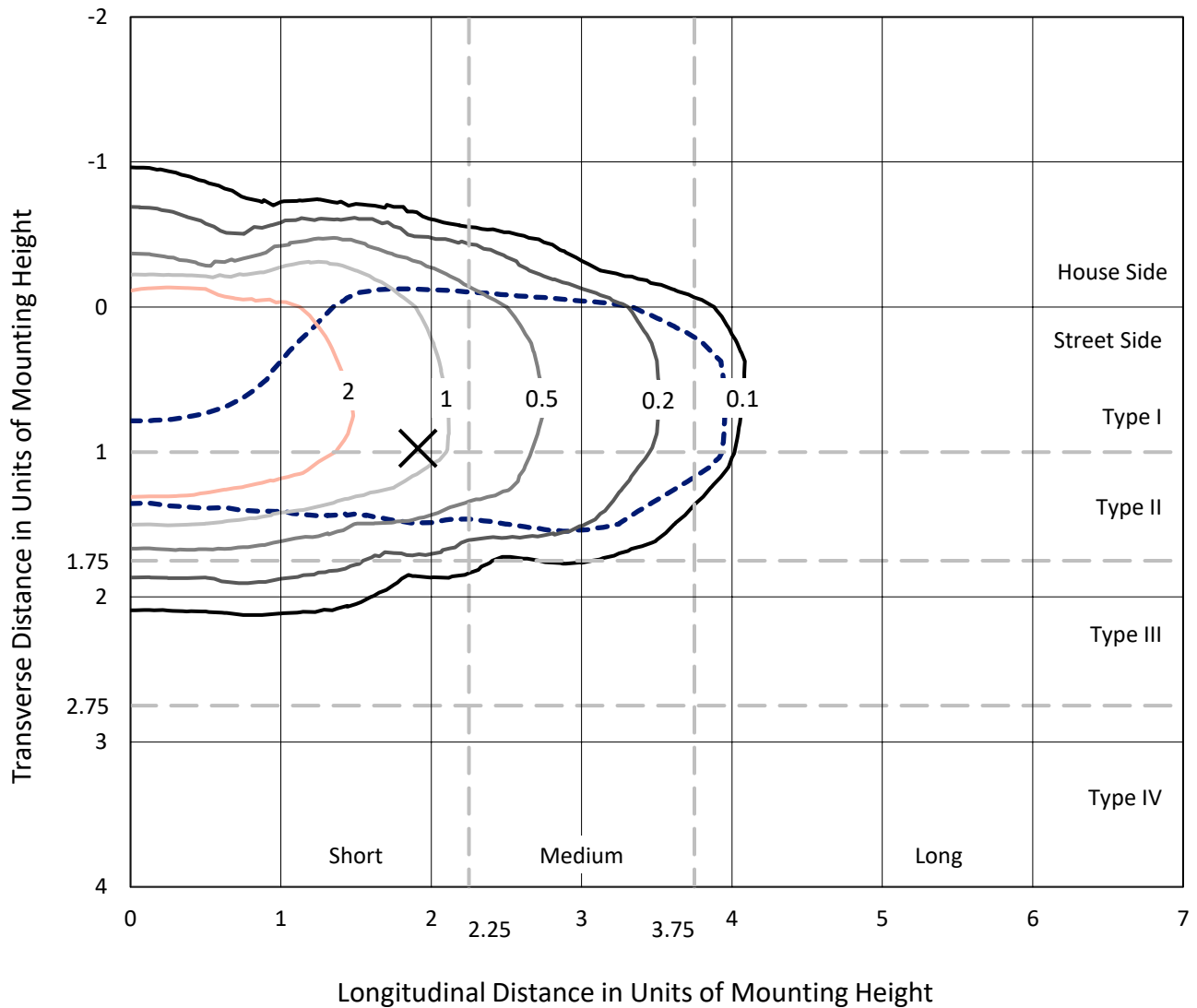
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

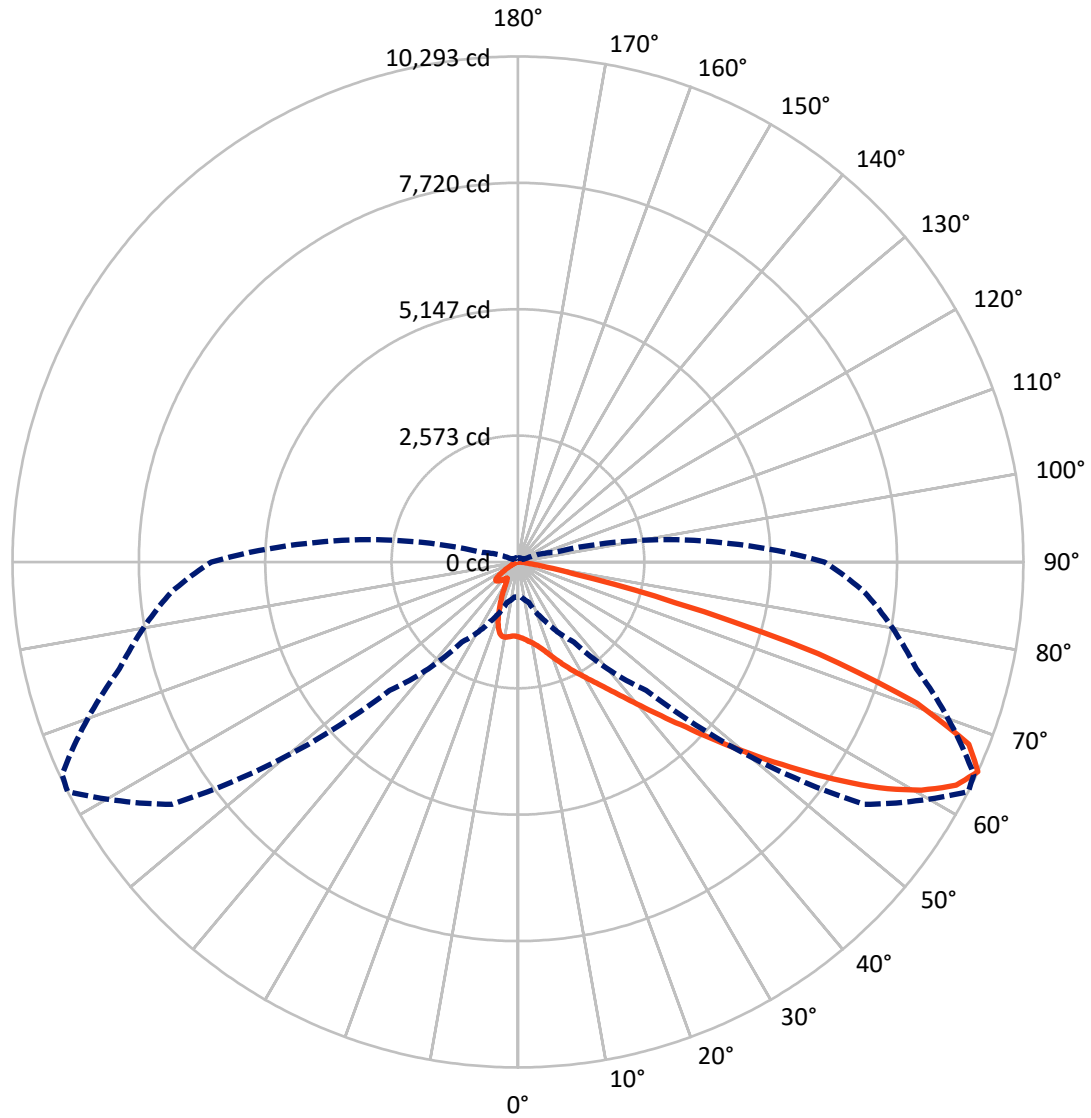
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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
House Side	Lumens	1815.5	0.0	1815.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10535.5	0.0	10535.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	12351.0	0.0	12351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.2
10°-20°	398.5	3.2
20°-30°	693.9	5.6
30°-40°	1250.7	10.1
40°-50°	2480.5	20.1
50°-60°	3378.8	27.4
60°-70°	2696.9	21.8
70°-80°	1220.4	9.9
80°-90°	87.7	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°	12351.0	100.0
0°-180°	12351.0	100.0

Coefficient of Utilization



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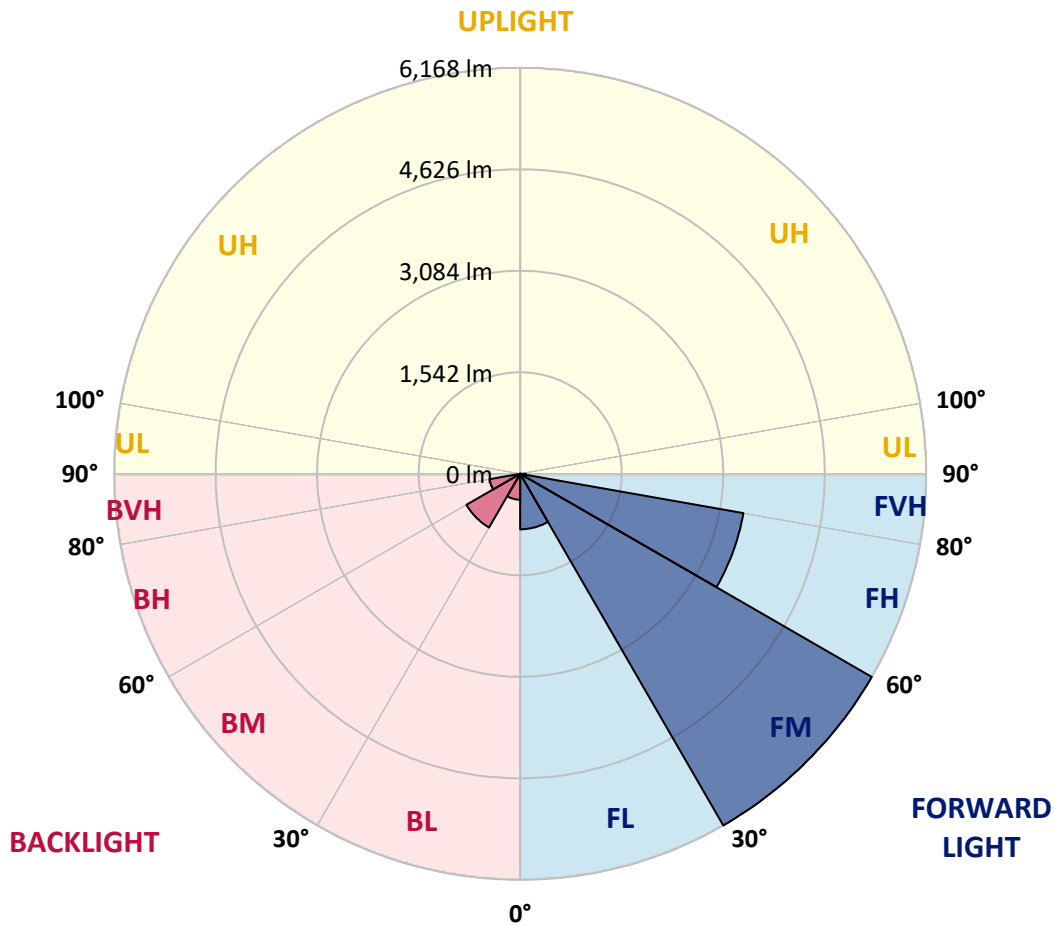
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.1	6.8			
FM (30°-60°)	6167.8	49.9			
FH (60°-80°)	3443.4	27.9			G2/5000
FVH (80°-90°)	81.2	0.7			G1/100
BL (0°-30°)	392.9	3.2	B1/500		
BM (30°-60°)	942.1	7.6	B1/1000		
BH (60°-80°)	473.9	3.8	B1/500		G1/500
BVH (80°-90°)	6.5	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°	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3
2.5°	1560.0	1555.8	1561.7	1559.2	1557.5	1554.1	1552.4	1550.7	1547.3	1544.7
5°	1564.3	1561.7	1567.7	1572.8	1577.9	1583.0	1585.5	1588.9	1585.5	1578.7
7.5°	1528.6	1526.9	1539.6	1554.9	1577.9	1597.4	1618.7	1630.6	1631.4	1628.9
10°	1526.0	1521.8	1534.5	1553.2	1583.0	1617.8	1655.2	1680.7	1684.1	1695.1
12.5°	1566.0	1561.7	1579.6	1600.0	1630.6	1667.1	1713.0	1748.7	1753.8	1769.1
15°	1633.1	1627.2	1647.6	1673.9	1713.0	1754.6	1803.0	1835.3	1839.6	1858.3
17.5°	1711.3	1705.3	1729.1	1757.2	1799.6	1856.6	1912.7	1948.3	1953.4	1965.3
20°	1811.5	1803.9	1822.6	1848.1	1893.1	1961.1	2028.2	2079.2	2078.3	2078.3
22.5°	1928.0	1916.1	1932.2	1952.6	1995.1	2077.5	2166.7	2227.0	2227.0	2203.3
25°	2052.9	2041.0	2058.8	2077.5	2114.9	2208.3	2312.9	2387.6	2391.0	2350.2
27.5°	2209.2	2193.9	2207.5	2229.6	2251.7	2346.8	2470.9	2557.6	2559.3	2496.4
30°	2510.0	2466.7	2424.2	2400.4	2410.6	2504.9	2637.4	2733.5	2742.0	2655.3
32.5°	3060.6	3052.1	2902.5	2707.1	2605.2	2674.8	2823.5	2939.1	2944.2	2832.9
35°	3916.2	3906.0	3665.6	3293.4	2961.2	2902.5	3049.5	3186.3	3182.9	3057.2
37.5°	4937.6	4928.2	4611.3	4113.4	3575.5	3246.7	3341.0	3484.6	3505.8	3341.0
40°	5810.2	5775.4	5574.8	5094.8	4391.2	3817.7	3755.6	3850.8	3872.9	3677.5
42.5°	6471.3	6441.5	6339.5	6039.6	5378.5	4662.3	4244.2	4280.7	4305.4	4070.9
45°	6813.7	6806.9	6847.7	6819.6	6384.6	5698.9	4942.7	4790.6	4799.9	4506.8
47.5°	6862.1	6858.7	7044.8	7308.2	7249.6	6868.1	5839.1	5426.1	5393.0	4998.7
50°	6576.6	6569.8	6926.7	7420.4	7827.4	7850.3	6857.0	6142.4	6069.3	5507.7
52.5°	5664.9	5663.2	6249.5	7071.1	8030.4	8710.2	7863.0	6929.2	6806.9	6046.4
55°	4358.9	4390.4	5062.5	6033.7	7660.0	9124.0	8766.3	7802.7	7614.9	6588.5
57.5°	3087.8	3133.7	3798.1	4663.1	6511.2	8879.3	9377.2	8677.9	8475.7	7128.9
60°	1658.6	1699.4	2364.7	3397.1	4844.1	7966.7	9699.2	9437.5	9246.3	7642.1
62.5°	988.2	1001.8	1277.1	2193.1	3276.4	6086.3	9562.4	10016.2	9859.0	8072.9
65°	709.5	712.0	850.5	1339.1	1989.1	3697.9	8603.1	10293.2	10244.7	8397.5
67.5°	597.3	595.6	653.4	889.6	1355.3	1852.3	6593.6	9901.5	10107.1	8603.1
70°	512.4	514.9	582.9	651.7	1018.8	1048.5	3278.1	8621.0	9059.4	8657.5
72.5°	381.5	390.0	452.9	593.9	769.0	721.4	1131.8	6392.2	7185.0	8157.0
75°	269.4	273.6	318.6	499.6	573.5	525.1	577.8	3304.5	4320.7	6253.7
77.5°	207.3	215.0	241.3	349.2	565.0	368.8	353.5	1143.7	1757.2	3777.7
80°	112.2	125.8	174.2	252.4	396.8	260.9	175.0	455.4	595.6	1766.5
82.5°	57.8	64.6	121.5	181.8	226.0	227.7	86.7	189.5	245.6	545.5
85°	22.9	28.0	81.6	100.3	116.4	112.2	39.1	76.5	88.4	151.2
87.5°	5.1	8.5	29.7	22.9	22.1	23.8	9.3	17.8	17.0	17.8
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°
1524.3	0°	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3	1524.3
1534.5	2.5°	1533.7	1530.3	1520.9	1510.8	1498.9	1492.1	1487.8	1487.0	1481.0	1476.8
1568.5	5°	1559.2	1555.8	1537.9	1516.7	1493.8	1475.9	1458.9	1443.6	1421.5	1417.3
1617.8	7.5°	1610.2	1600.8	1571.9	1543.0	1499.7	1447.9	1385.0	1312.8	1248.2	1228.7
1683.2	10°	1673.0	1660.3	1623.8	1572.8	1476.8	1335.7	1183.6	1042.6	930.4	899.0
1760.6	12.5°	1744.4	1733.4	1684.9	1590.6	1380.7	1125.0	892.2	717.1	608.4	581.2
1843.0	15°	1829.4	1813.2	1746.1	1563.4	1209.1	854.8	612.6	509.0	469.9	464.8
1937.3	17.5°	1919.5	1893.1	1800.5	1465.7	978.0	607.5	473.3	443.5	426.5	421.4
2032.5	20°	2001.9	1967.9	1832.8	1317.9	730.7	473.3	424.0	404.5	389.2	383.2
2127.6	22.5°	2084.3	2035.9	1832.8	1116.5	548.1	419.7	389.2	371.3	353.5	345.8
2229.6	25°	2170.1	2105.5	1800.5	892.2	441.0	384.9	356.0	336.5	321.2	311.8
2326.5	27.5°	2253.4	2164.2	1726.6	679.8	392.6	354.3	325.4	306.7	292.3	285.5
2431.8	30°	2332.4	2221.9	1622.9	515.8	361.1	324.6	297.4	281.2	266.8	260.0
2568.6	32.5°	2439.5	2295.0	1512.5	423.1	333.9	296.5	271.9	256.6	243.9	238.8
2746.2	35°	2588.2	2402.9	1417.3	415.5	311.0	273.6	249.0	234.5	221.8	217.5
2975.6	37.5°	2798.9	2577.1	1367.2	466.5	292.3	253.2	230.3	215.0	203.1	199.7
3267.1	40°	3058.9	2813.3	1394.3	517.5	279.5	235.4	213.3	198.0	187.8	183.5
3601.8	42.5°	3367.3	3104.8	1544.7	556.5	271.1	220.1	197.1	180.1	173.3	171.6
3981.7	45°	3721.6	3425.1	1775.0	598.2	257.5	205.6	181.0	168.2	163.1	162.3
4394.6	47.5°	4124.4	3776.9	2041.8	650.0	243.9	192.0	168.2	159.7	155.5	153.8
4825.4	50°	4523.8	4131.2	2316.3	678.9	232.8	179.3	158.0	151.2	147.8	147.0
5280.8	52.5°	4941.8	4495.7	2538.0	651.7	223.5	169.1	149.5	144.4	141.0	140.2
5700.6	55°	5340.3	4790.6	2576.3	553.1	204.8	158.9	140.2	137.7	133.4	133.4
6126.3	57.5°	5683.6	4938.4	2306.1	406.2	186.1	143.6	130.9	128.3	124.9	124.1
6510.3	60°	5998.8	4895.9	1780.1	273.6	165.7	128.3	119.0	117.3	113.9	109.6
6844.3	62.5°	6176.4	4709.0	1217.6	178.4	145.3	112.2	105.4	104.5	96.9	88.4
7091.5	65°	6243.5	4324.9	759.6	130.0	121.5	96.0	90.9	89.2	78.2	68.8
7231.7	67.5°	6184.9	3692.8	383.2	102.8	96.0	79.9	74.8	74.8	67.1	58.6
7223.2	70°	5950.4	2768.3	161.4	82.4	73.9	61.2	61.2	64.6	56.9	47.6
6848.5	72.5°	5441.4	1862.5	85.8	62.9	55.2	43.3	50.1	52.7	45.0	35.7
5605.4	75°	4325.8	1136.0	59.5	46.7	34.8	30.6	38.2	39.9	30.6	23.8
3843.2	77.5°	2958.6	652.6	39.9	29.7	22.1	17.8	26.3	24.6	16.1	11.0
1481.9	80°	1299.2	271.9	22.9	13.6	8.5	6.8	9.3	6.8	5.1	3.4
203.1	82.5°	152.1	63.7	8.5	5.1	3.4	1.7	0.8	0.0	0.0	0.0
62.0	85°	31.4	7.6	4.2	1.7	0.8	0.0	0.0	0.0	0.0	0.0
11.0	87.5°	5.9	1.7	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>
1524.3
1481.0
1415.6
1219.3
887.1
573.5
459.7
418.9
379.8
341.6
308.4
285.5
260.9
238.8
217.5
198.8
182.7
171.6
161.4
153.8
147.0
140.2
132.6
123.2
108.8
86.7
68.0
57.8
46.7
35.7
22.9
11.9
3.4
0.0
0.0
0.0
0.0

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