

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: P949297

Luminaire Tested: **GALN-SB4A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949297
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-SB4A-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA 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: 12346 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

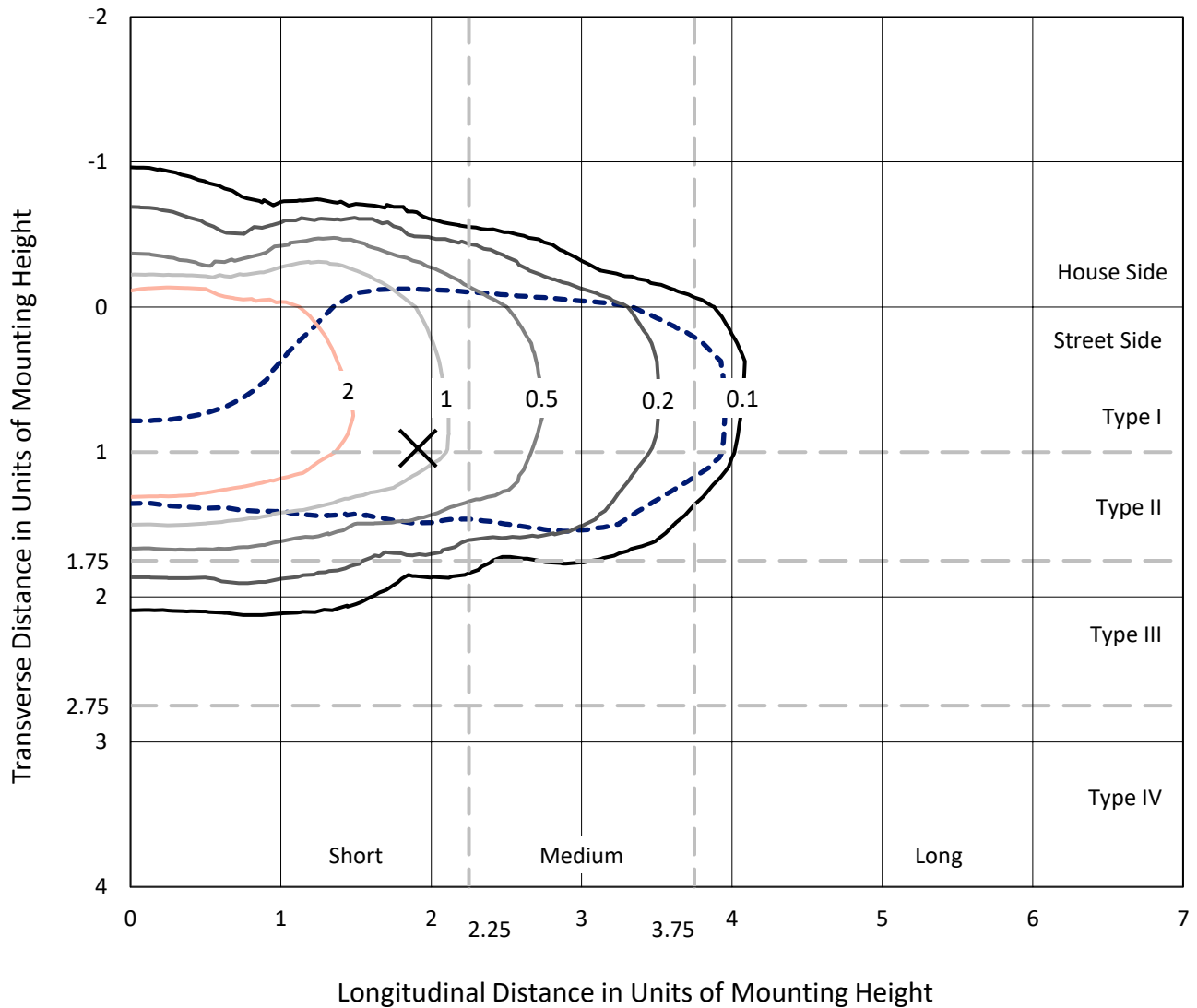
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

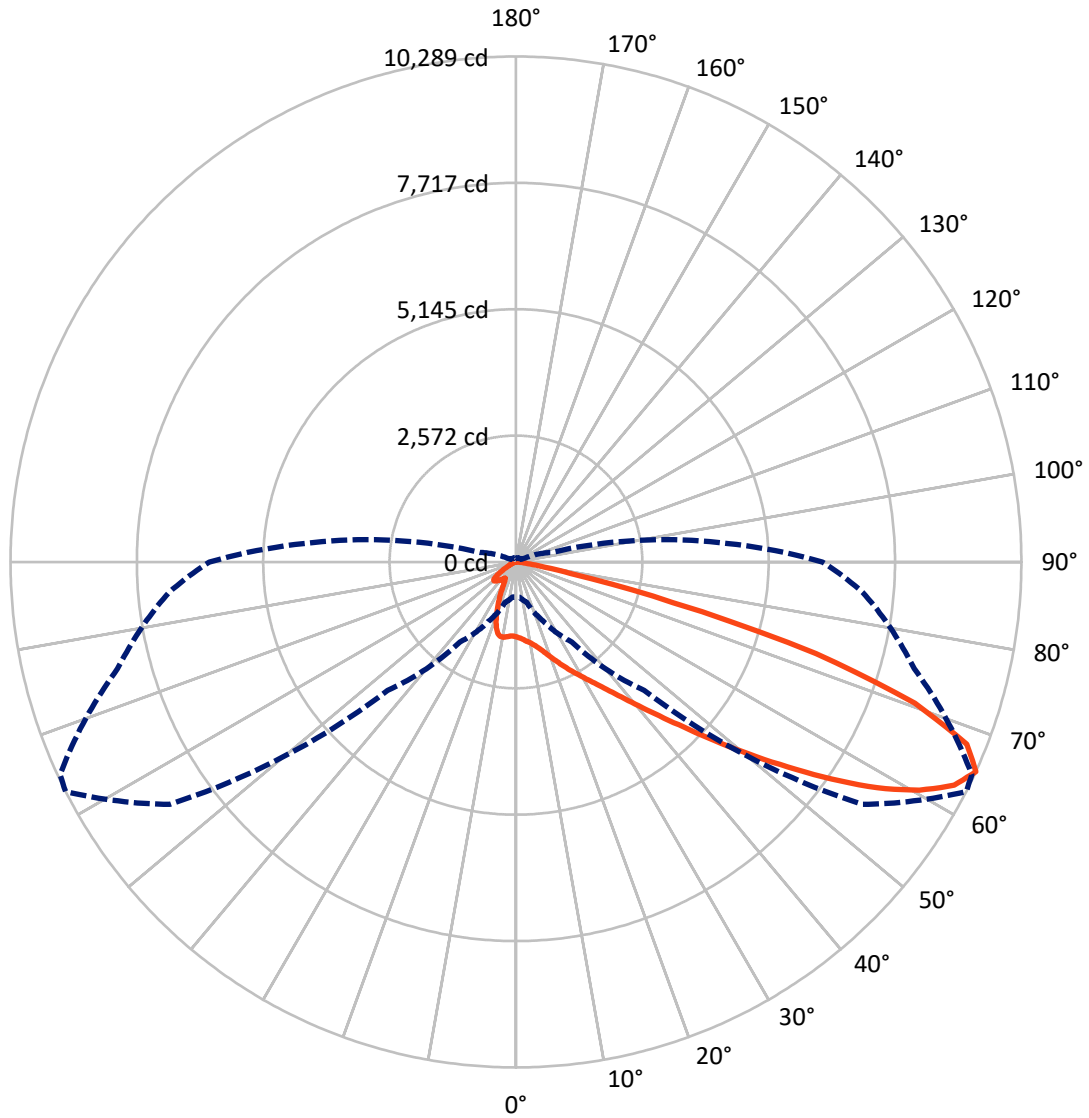
✕ Max cd
 - - - 1/2 Max cd



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	1814.8	0.0	1814.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10531.2	0.0	10531.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	12346.0	0.0	12346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.2
10°-20°	398.3	3.2
20°-30°	693.6	5.6
30°-40°	1250.2	10.1
40°-50°	2479.5	20.1
50°-60°	3377.4	27.4
60°-70°	2695.8	21.8
70°-80°	1219.9	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°	12346.0	100.0
0°-180°	12346.0	100.0

Coefficient of Utilization



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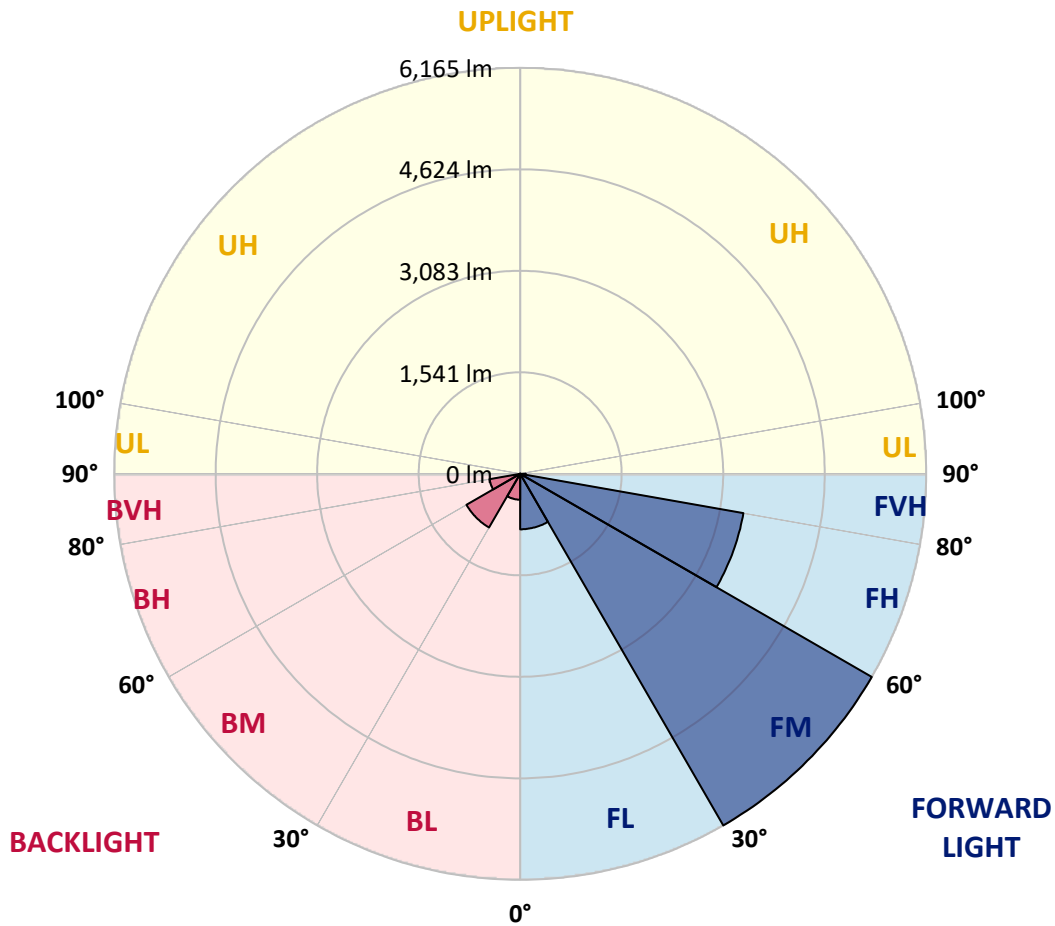
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.8	6.8			
FM (30°-60°)	6165.3	49.9			
FH (60°-80°)	3442.0	27.9			G2/5000
FVH (80°-90°)	81.2	0.7			G1/100
BL (0°-30°)	392.7	3.2	B1/500		
BM (30°-60°)	941.8	7.6	B1/1000		
BH (60°-80°)	473.8	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°	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7
2.5°	1559.4	1555.2	1561.1	1558.6	1556.9	1553.5	1551.8	1550.1	1546.7	1544.1
5°	1563.6	1561.1	1567.0	1572.1	1577.2	1582.3	1584.9	1588.3	1584.9	1578.1
7.5°	1528.0	1526.3	1539.0	1554.3	1577.2	1596.8	1618.0	1629.9	1630.7	1628.2
10°	1525.4	1521.2	1533.9	1552.6	1582.3	1617.2	1654.5	1680.0	1683.4	1694.4
12.5°	1565.3	1561.1	1578.9	1599.3	1629.9	1666.4	1712.3	1748.0	1753.1	1768.3
15°	1632.4	1626.5	1646.9	1673.2	1712.3	1753.9	1802.3	1834.6	1838.8	1857.5
17.5°	1710.6	1704.6	1728.4	1756.5	1798.9	1855.8	1911.9	1947.6	1952.7	1964.5
20°	1810.8	1803.2	1821.9	1847.3	1892.3	1960.3	2027.4	2078.4	2077.5	2077.5
22.5°	1927.2	1915.3	1931.4	1951.8	1994.3	2076.7	2165.8	2226.1	2226.1	2202.4
25°	2052.0	2040.1	2058.0	2076.7	2114.0	2207.5	2311.9	2386.7	2390.1	2349.3
27.5°	2208.3	2193.0	2206.6	2228.7	2250.8	2345.9	2469.9	2556.5	2558.2	2495.4
30°	2509.0	2465.7	2423.2	2399.4	2409.6	2503.9	2636.4	2732.4	2740.8	2654.2
32.5°	3059.4	3050.9	2901.4	2706.0	2604.1	2673.7	2822.4	2937.9	2943.0	2831.7
35°	3914.6	3904.5	3664.1	3292.1	2960.0	2901.4	3048.3	3185.1	3181.7	3056.0
37.5°	4935.6	4926.2	4609.4	4111.7	3574.1	3245.4	3339.6	3483.2	3504.4	3339.6
40°	5807.8	5773.0	5572.6	5092.7	4389.4	3816.1	3754.1	3849.2	3871.3	3676.0
42.5°	6468.6	6438.9	6337.0	6037.2	5376.4	4660.4	4242.5	4279.0	4303.6	4069.2
45°	6810.9	6804.1	6844.9	6816.9	6382.0	5696.6	4940.7	4788.6	4798.0	4504.9
47.5°	6859.3	6855.9	7041.9	7305.2	7246.6	6865.3	5836.7	5423.9	5390.8	4996.7
50°	6574.0	6567.2	6923.9	7417.4	7824.2	7847.1	6854.2	6139.9	6066.9	5505.5
52.5°	5662.6	5660.9	6247.0	7068.3	8027.2	8706.7	7859.9	6926.4	6804.1	6044.0
55°	4357.2	4388.6	5060.4	6031.2	7656.9	9120.3	8762.7	7799.6	7611.9	6585.8
57.5°	3086.5	3132.4	3796.6	4661.2	6508.6	8875.7	9373.4	8674.4	8472.2	7126.0
60°	1657.9	1698.7	2363.7	3395.7	4842.1	7963.5	9695.3	9433.7	9242.6	7639.0
62.5°	987.8	1001.4	1276.6	2192.2	3275.1	6083.9	9558.6	10012.1	9855.0	8069.7
65°	709.2	711.8	850.2	1338.6	1988.3	3696.4	8599.6	10289.0	10240.6	8394.1
67.5°	597.1	595.4	653.1	889.3	1354.7	1851.6	6590.9	9897.4	10103.0	8599.6
70°	512.2	514.7	582.7	651.4	1018.4	1048.1	3276.8	8617.5	9055.7	8654.0
72.5°	381.4	389.9	452.7	593.7	768.7	721.1	1131.3	6389.6	7182.1	8153.7
75°	269.2	273.5	318.5	499.4	573.3	524.9	577.6	3303.1	4318.9	6251.2
77.5°	207.2	214.9	241.2	349.1	564.8	368.6	353.3	1143.2	1756.5	3776.2
80°	112.1	125.7	174.1	252.3	396.6	260.7	175.0	455.3	595.4	1765.8
82.5°	57.8	64.6	121.5	181.8	225.9	227.6	86.6	189.4	245.5	545.3
85°	22.9	28.0	81.5	100.2	116.4	112.1	39.1	76.4	88.3	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°
1523.7	0°	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7
1533.9	2.5°	1533.1	1529.7	1520.3	1510.1	1498.2	1491.5	1487.2	1486.4	1480.4	1476.2
1567.9	5°	1558.6	1555.2	1537.3	1516.1	1493.2	1475.3	1458.3	1443.0	1421.0	1416.7
1617.2	7.5°	1609.5	1600.2	1571.3	1542.4	1499.1	1447.3	1384.4	1312.2	1247.7	1228.2
1682.6	10°	1672.4	1659.6	1623.1	1572.1	1476.2	1335.2	1183.1	1042.1	930.0	898.6
1759.8	12.5°	1743.7	1732.7	1684.3	1590.0	1380.2	1124.5	891.8	716.8	608.1	581.0
1842.2	15°	1828.6	1812.5	1745.4	1562.8	1208.6	854.4	612.4	508.8	469.7	464.6
1936.5	17.5°	1918.7	1892.3	1799.8	1465.1	977.6	607.3	473.1	443.4	426.4	421.3
2031.6	20°	2001.1	1967.1	1832.0	1317.3	730.4	473.1	423.8	404.3	389.0	383.1
2126.8	22.5°	2083.4	2035.0	1832.0	1116.0	547.8	419.6	389.0	371.2	353.3	345.7
2228.7	25°	2169.2	2104.7	1799.8	891.8	440.8	384.8	355.9	336.3	321.1	311.7
2325.5	27.5°	2252.5	2163.3	1725.9	679.5	392.4	354.2	325.3	306.6	292.2	285.4
2430.8	30°	2331.5	2221.0	1622.3	515.6	361.0	324.5	297.3	281.1	266.7	259.9
2567.6	32.5°	2438.5	2294.1	1511.8	423.0	333.8	296.4	271.8	256.5	243.8	238.7
2745.1	35°	2587.1	2402.0	1416.7	415.3	310.9	273.5	248.9	234.4	221.7	217.4
2974.4	37.5°	2797.8	2576.1	1366.6	466.3	292.2	253.1	230.2	214.9	203.0	199.6
3265.7	40°	3057.7	2812.2	1393.8	517.3	279.4	235.3	213.2	197.9	187.7	183.5
3600.4	42.5°	3366.0	3103.5	1544.1	556.3	270.9	220.0	197.0	180.1	173.3	171.6
3980.0	45°	3720.1	3423.7	1774.3	597.9	257.4	205.5	180.9	168.2	163.1	162.2
4392.8	47.5°	4122.7	3775.4	2041.0	649.8	243.8	192.0	168.2	159.7	155.4	153.7
4823.4	50°	4521.9	4129.5	2315.3	678.6	232.7	179.2	158.0	151.2	147.8	146.9
5278.7	52.5°	4939.8	4493.9	2537.0	651.4	223.4	169.0	149.5	144.4	141.0	140.1
5698.3	55°	5338.1	4788.6	2575.2	552.9	204.7	158.8	140.1	137.6	133.3	133.3
6123.8	57.5°	5681.3	4936.4	2305.1	406.0	186.0	143.5	130.8	128.3	124.9	124.0
6507.7	60°	5996.4	4893.9	1779.4	273.5	165.6	128.3	118.9	117.2	113.8	109.6
6841.5	62.5°	6173.9	4707.1	1217.1	178.4	145.2	112.1	105.3	104.5	96.8	88.3
7088.7	65°	6241.0	4323.2	759.3	130.0	121.5	96.0	90.9	89.2	78.1	68.8
7228.8	67.5°	6182.4	3691.3	383.1	102.8	96.0	79.8	74.7	74.7	67.1	58.6
7220.3	70°	5948.0	2767.2	161.4	82.4	73.9	61.2	61.2	64.6	56.9	47.6
6845.7	72.5°	5439.2	1861.8	85.8	62.9	55.2	43.3	50.1	52.7	45.0	35.7
5603.1	75°	4324.0	1135.6	59.5	46.7	34.8	30.6	38.2	39.9	30.6	23.8
3841.6	77.5°	2957.4	652.3	39.9	29.7	22.1	17.8	26.3	24.6	16.1	11.0
1481.3	80°	1298.7	271.8	22.9	13.6	8.5	6.8	9.3	6.8	5.1	3.4
203.0	82.5°	152.0	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

180°
1523.7
1480.4
1415.0
1218.8
886.7
573.3
459.5
418.7
379.7
341.4
308.3
285.4
260.7
238.7
217.4
198.7
182.6
171.6
161.4
153.7
146.9
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