

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: P947871

Luminaire Tested: **GALN-SB3A-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10068 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

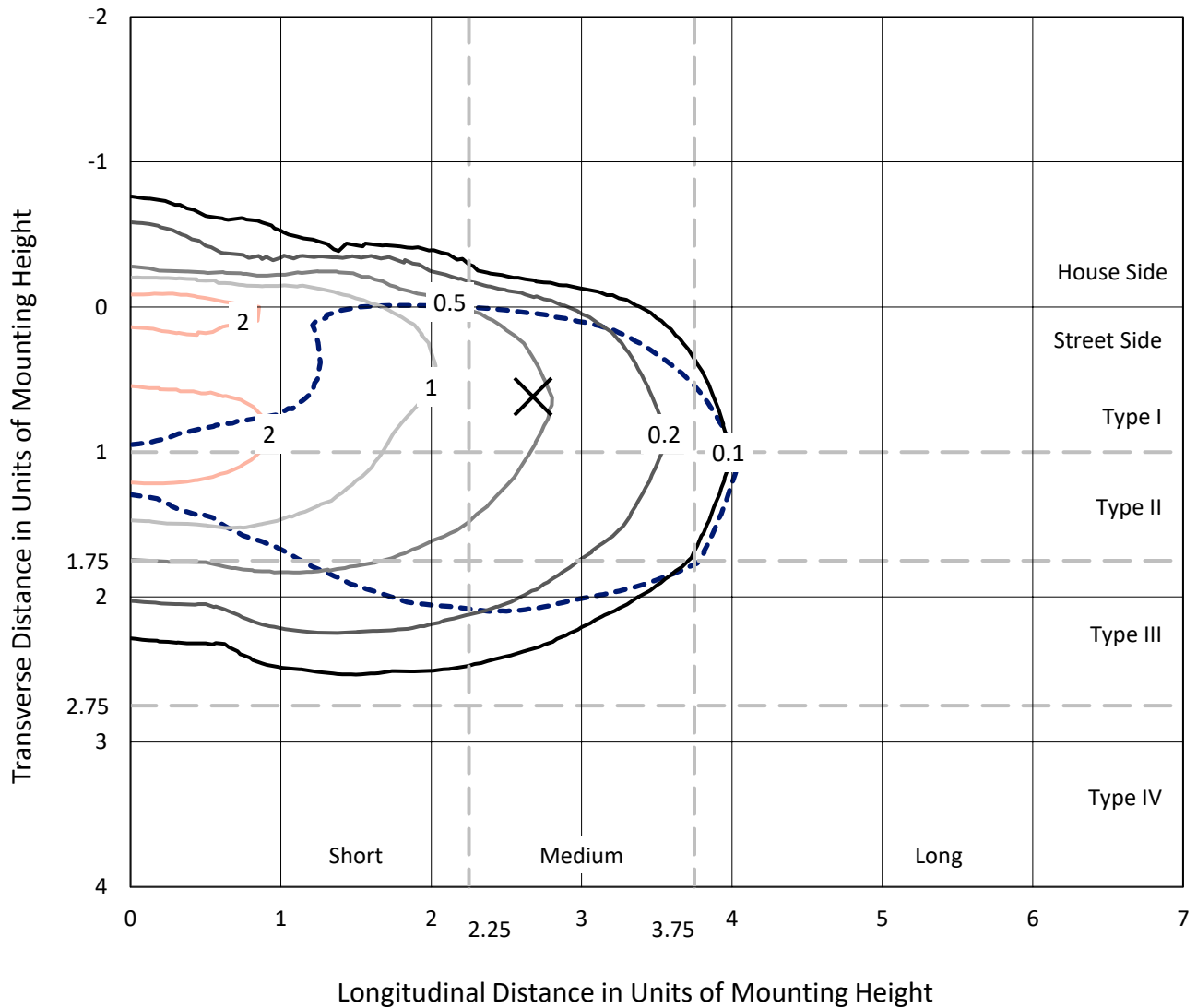
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

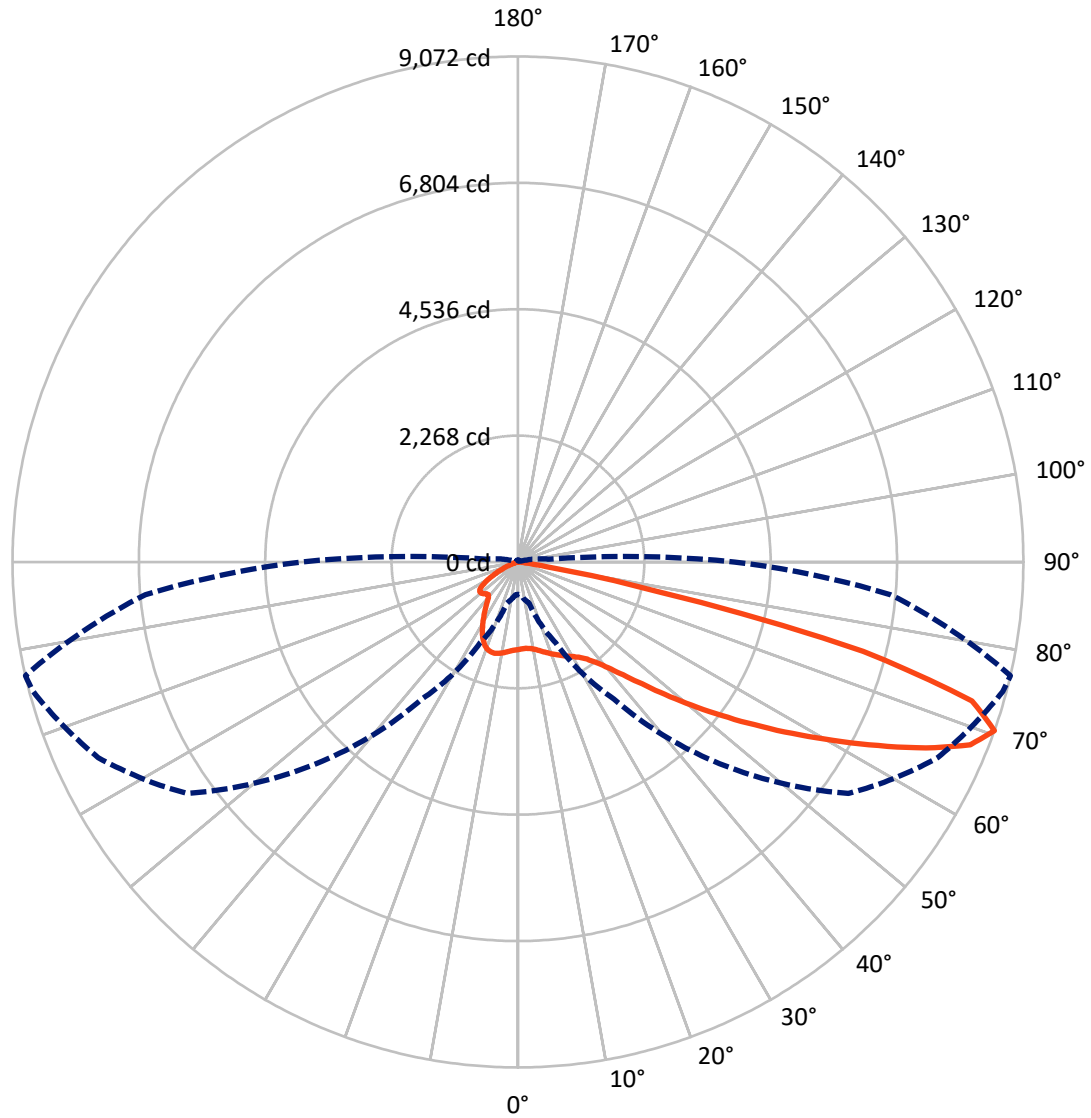
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1061.3	0.0	1061.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9006.7	0.0	9006.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	10068.0	0.0	10068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.3
10°-20°	321.3	3.2
20°-30°	497.0	4.9
30°-40°	901.8	9.0
40°-50°	1702.2	16.9
50°-60°	2459.5	24.4
60°-70°	2618.1	26.0
70°-80°	1387.4	13.8
80°-90°	45.6	0.5
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°	10068.0	100.0
0°-180°	10068.0	100.0

Coefficient of Utilization



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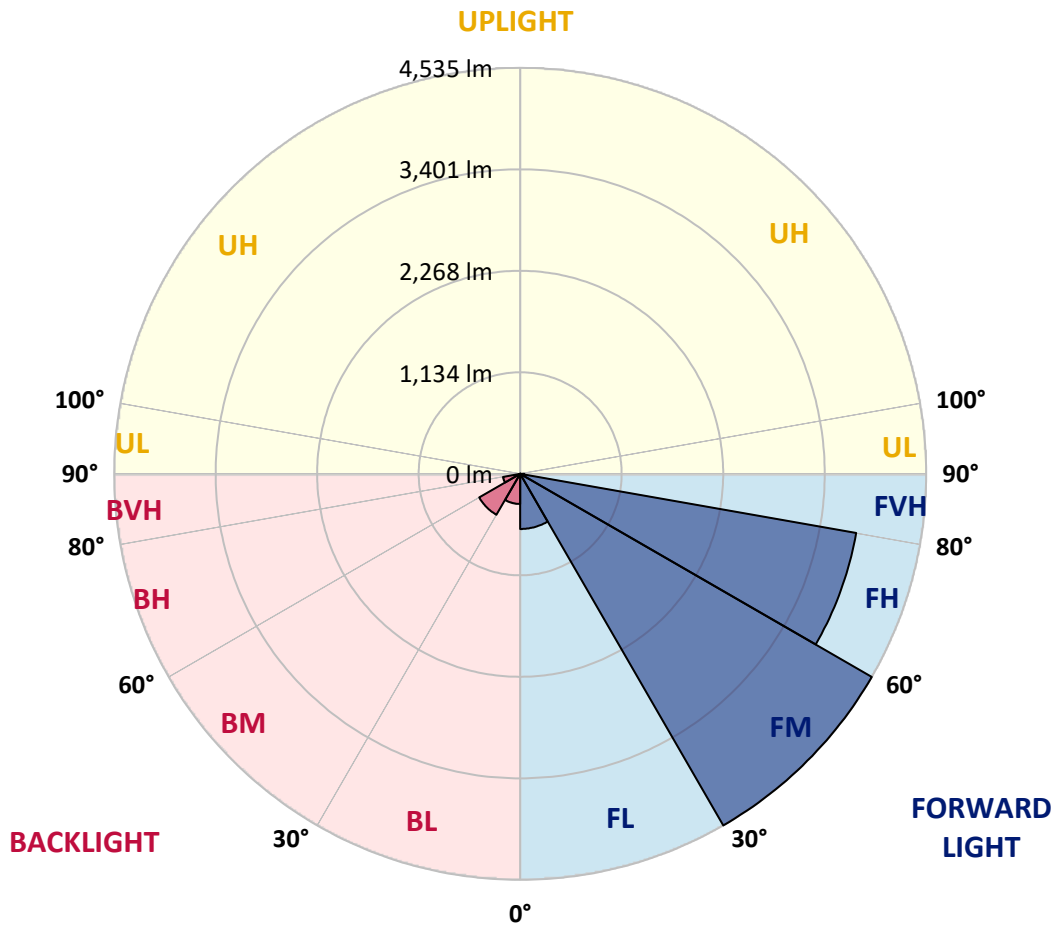
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	616.4	6.1			
FM	(30°-60°)	4535.1	45.0			
FH	(60°-80°)	3810.9	37.9			G2/5000
FVH	(80°-90°)	44.3	0.4			G1/100
BL	(0°-30°)	337.2	3.3	B1/500		
BM	(30°-60°)	528.3	5.2	B1/1000		
BH	(60°-80°)	194.6	1.9	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4
2.5°	1474.4	1487.8	1485.9	1494.8	1497.9	1510.7	1523.4	1540.5	1559.6	1559.0
5°	1391.1	1404.5	1407.7	1419.7	1435.0	1454.7	1480.8	1515.1	1550.7	1556.4
7.5°	1292.6	1306.6	1314.8	1339.0	1367.0	1407.7	1450.3	1500.5	1559.6	1567.9
10°	1194.0	1206.7	1217.6	1251.9	1296.4	1356.8	1426.1	1498.6	1578.1	1590.1
12.5°	1133.0	1145.1	1157.2	1187.0	1242.4	1316.1	1410.2	1507.5	1608.6	1625.7
15°	1111.4	1122.2	1131.7	1158.4	1209.9	1293.9	1407.0	1525.9	1647.4	1670.2
17.5°	1114.6	1120.3	1126.6	1147.0	1197.2	1283.7	1412.7	1557.7	1693.1	1713.5
20°	1133.0	1136.2	1136.8	1150.8	1195.3	1282.4	1424.2	1588.2	1736.4	1763.7
22.5°	1156.5	1157.8	1156.5	1166.1	1207.4	1291.9	1439.5	1625.1	1784.7	1810.1
25°	1266.5	1242.4	1211.8	1193.4	1227.7	1310.4	1462.3	1674.7	1837.5	1862.3
27.5°	1607.9	1538.6	1429.3	1306.6	1269.7	1337.1	1494.1	1724.9	1890.9	1913.1
30°	2162.4	2071.4	1885.8	1609.2	1404.5	1393.0	1535.5	1775.2	1947.5	1971.6
32.5°	2718.0	2695.8	2481.5	2098.8	1707.8	1517.7	1604.1	1843.2	2022.5	2041.6
35°	3280.1	3235.0	3059.5	2681.2	2175.1	1771.3	1718.6	1932.2	2121.0	2142.6
37.5°	3710.5	3683.2	3574.5	3262.9	2729.5	2163.0	1914.4	2070.2	2264.1	2288.2
40°	4090.7	4078.0	4041.1	3835.8	3349.4	2675.4	2218.9	2283.8	2462.5	2491.1
42.5°	4389.6	4419.4	4440.4	4383.2	3988.4	3260.4	2628.4	2583.9	2739.0	2768.3
45°	4695.4	4705.6	4790.1	4872.8	4622.9	3872.0	3090.0	2935.5	3083.0	3119.2
47.5°	4891.8	4932.5	5081.3	5226.9	5156.3	4478.6	3585.9	3350.7	3481.6	3549.7
50°	4906.5	4983.4	5188.1	5441.8	5544.8	5055.9	4125.1	3823.7	3962.9	4038.0
52.5°	4663.0	4782.5	5099.8	5471.1	5754.6	5544.8	4682.7	4296.7	4475.4	4573.3
55°	3575.1	3731.5	4767.2	5312.1	5762.9	5915.5	5225.6	4789.5	5046.3	5157.0
57.5°	3114.8	3193.6	3748.0	5036.2	5609.7	6064.9	5716.5	5258.7	5667.5	5804.9
60°	2591.5	2695.2	3143.4	4584.8	5401.8	6079.5	6150.1	5864.0	6340.8	6495.3
62.5°	1761.2	1873.7	2319.4	3809.1	5117.6	6072.5	6505.5	6487.1	7089.2	7255.1
65°	1091.0	1161.6	1455.3	3110.3	4720.2	6080.2	6877.4	7243.7	7878.8	8047.3
67.5°	862.1	894.6	1047.8	2388.1	4035.4	5908.5	7248.8	7955.1	8622.1	8755.6
70°	579.2	598.9	762.3	1600.9	3002.2	5116.3	7241.8	8312.5	9004.8	9071.6
72.5°	305.2	320.4	445.7	741.3	1813.3	3636.8	6104.3	7885.2	8624.0	8523.5
75°	152.6	178.0	300.1	376.4	774.4	2028.2	3790.6	6216.9	6787.8	6398.7
77.5°	115.7	139.9	248.0	248.0	269.6	682.8	1605.4	3390.7	3127.5	2604.2
80°	73.8	95.4	216.8	187.6	112.5	173.6	418.4	949.9	664.4	505.5
82.5°	43.2	62.3	180.6	124.0	62.9	64.2	118.3	202.2	172.3	134.2
85°	17.2	40.7	124.0	49.0	24.8	15.9	35.6	43.2	35.6	26.7
87.5°	0.0	9.5	21.6	0.0	1.9	1.3	2.5	3.2	3.2	2.5
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°
1570.4	0°	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4	1570.4
1571.7	2.5°	1577.4	1578.7	1582.5	1583.1	1574.2	1562.8	1558.3	1556.4	1548.8	1548.2
1581.9	5°	1596.5	1602.2	1596.5	1580.0	1540.5	1485.2	1443.3	1408.9	1377.8	1368.2
1616.8	7.5°	1634.6	1640.4	1623.2	1558.3	1459.2	1349.2	1250.0	1180.0	1117.1	1093.6
1659.4	10°	1689.3	1697.0	1642.9	1511.9	1336.5	1159.7	991.8	873.6	781.4	743.9
1717.3	12.5°	1758.0	1761.2	1653.7	1441.4	1176.9	924.5	686.7	560.1	478.1	447.6
1787.2	15°	1833.6	1829.2	1655.0	1345.4	959.4	653.6	448.2	368.1	335.1	324.9
1857.2	17.5°	1913.1	1894.7	1629.6	1206.7	721.0	447.0	332.5	313.4	307.7	305.2
1926.5	20°	1991.3	1950.0	1583.1	1025.5	517.5	333.8	302.0	296.3	293.1	291.8
1996.4	22.5°	2062.5	1992.0	1503.7	815.1	375.8	295.0	285.5	280.4	274.7	272.1
2064.4	25°	2131.8	2016.1	1391.8	618.6	300.7	275.9	268.3	258.8	251.1	248.0
2137.6	27.5°	2199.2	2031.4	1251.9	457.8	268.3	258.1	244.1	230.8	225.1	223.8
2215.8	30°	2271.1	2036.5	1092.9	341.4	248.6	235.9	215.5	200.3	197.1	197.7
2321.3	32.5°	2358.8	2044.1	932.7	279.8	232.1	209.2	185.0	169.1	166.6	169.1
2475.2	35°	2463.7	2059.4	778.2	257.5	217.4	181.8	155.8	142.4	139.9	141.8
2672.3	37.5°	2606.1	2084.2	633.9	253.0	205.4	159.0	131.0	120.2	120.2	120.8
2913.9	40°	2795.6	2150.3	504.8	249.9	199.0	141.8	110.6	106.2	108.1	109.4
3221.6	42.5°	3026.4	2290.8	417.7	246.1	192.0	134.2	100.5	98.5	101.7	103.0
3590.4	45°	3285.2	2468.8	387.2	239.7	185.7	139.2	96.0	93.5	97.3	97.9
4003.6	47.5°	3552.9	2643.0	383.4	232.7	179.3	146.9	94.7	89.0	93.5	94.1
4444.9	50°	3823.7	2756.8	387.2	221.9	169.1	146.9	95.4	84.6	88.4	90.3
4902.7	52.5°	4096.5	2809.0	384.7	198.4	151.3	138.0	95.4	80.7	84.6	85.8
5397.3	55°	4361.0	2798.8	345.9	163.4	128.4	122.1	92.8	77.6	80.1	80.7
5864.6	57.5°	4570.1	2657.0	274.0	127.2	104.3	101.7	84.6	73.8	75.7	75.0
6293.1	60°	4679.5	2345.5	195.8	97.9	82.0	80.1	74.4	68.7	69.9	66.8
6656.2	62.5°	4680.8	1933.5	131.0	77.6	65.5	63.6	63.6	61.7	60.4	54.0
6937.2	65°	4580.9	1476.3	87.1	61.7	52.8	49.6	53.4	52.8	48.3	39.4
7023.0	67.5°	4354.6	967.7	66.1	48.3	40.7	38.8	42.6	44.5	41.3	33.1
6710.2	70°	3889.2	563.3	54.7	37.5	30.5	28.6	34.3	38.1	34.3	26.7
5735.6	72.5°	3230.5	303.9	44.5	28.0	21.0	19.1	27.3	31.2	27.3	19.7
3680.0	75°	2096.2	162.8	34.3	18.4	10.8	12.1	20.3	22.9	19.1	12.7
1080.2	77.5°	703.8	71.8	21.6	8.9	5.1	5.1	12.1	14.0	8.9	4.5
196.5	80°	157.0	29.9	8.9	3.8	1.9	1.9	2.5	2.5	1.3	0.0
60.4	82.5°	51.5	12.1	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
15.3	85°	19.7	4.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	7.6	0.6	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>
1570.4
1549.4
1362.5
1084.0
728.0
438.1
324.9
304.5
290.6
271.5
246.7
222.5
197.7
168.5
141.1
120.2
109.4
103.0
98.5
94.7
90.9
85.8
80.7
75.0
66.1
52.1
38.1
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