

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: P946128

Luminaire Tested: **GALN-SB1D-840-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946128  
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-SB1D-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

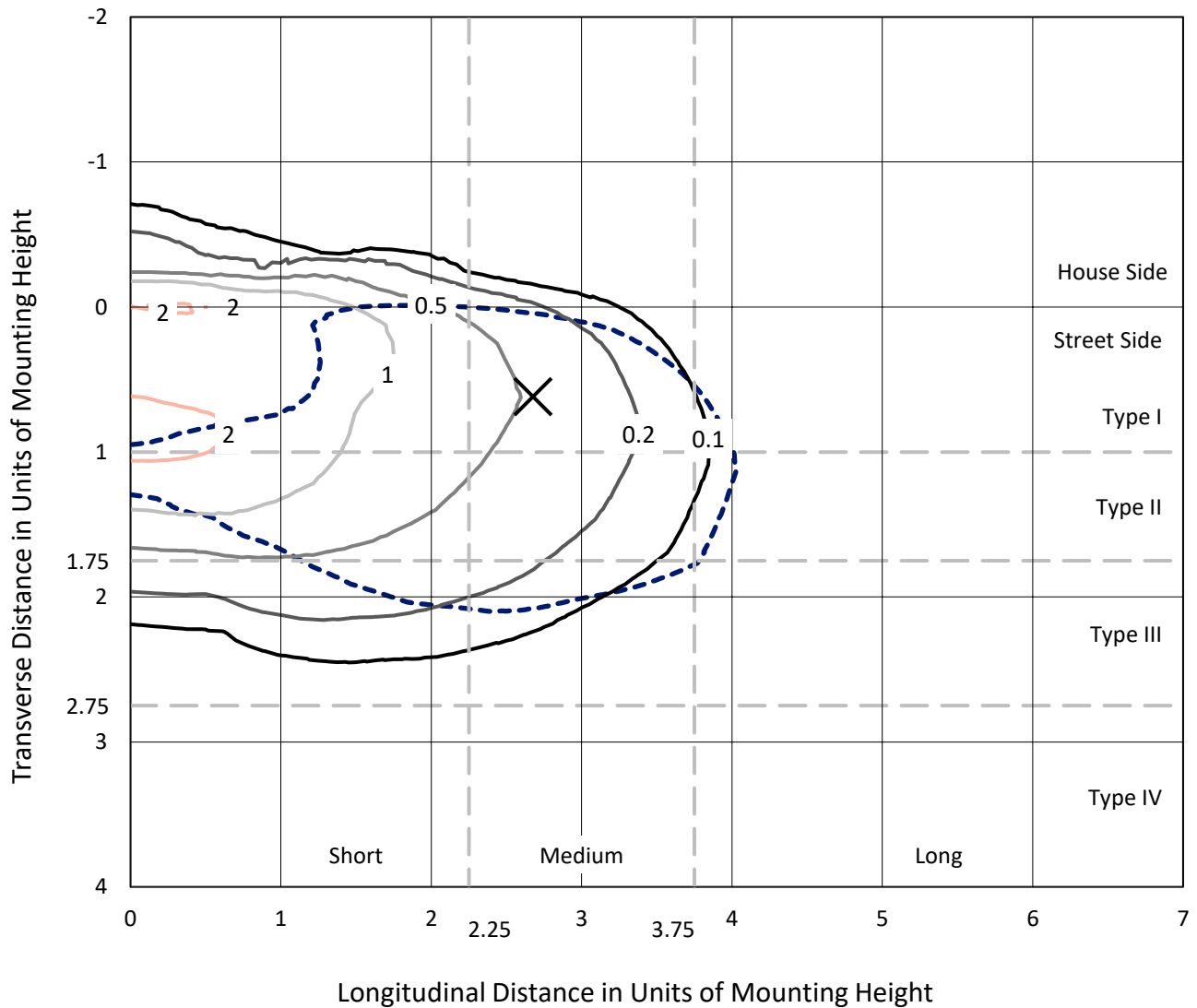
Lumens per Lamp: N/A  
Luminaire Lumens: 8106 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

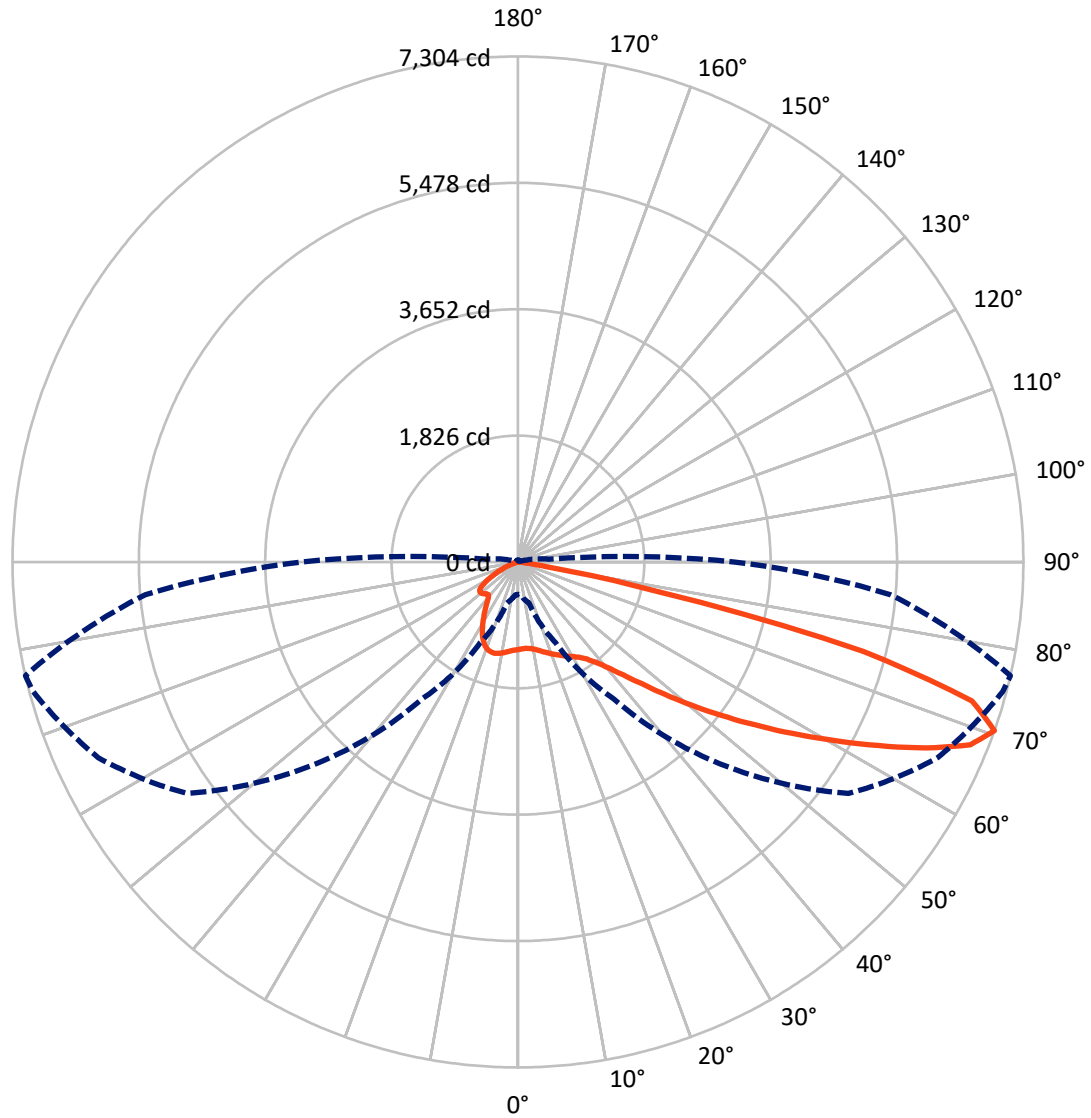
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
<b>House Side</b>	Lumens	854.5	0.0	854.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	7251.5	0.0	7251.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	8106.0	0.0	8106.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	1.3
10°-20°	258.7	3.2
20°-30°	400.1	4.9
30°-40°	726.0	9.0
40°-50°	1370.5	16.9
50°-60°	1980.2	24.4
60°-70°	2107.9	26.0
70°-80°	1117.0	13.8
80°-90°	36.7	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°	8106.0	100.0
0°-180°	8106.0	100.0

**Coefficient of Utilization**



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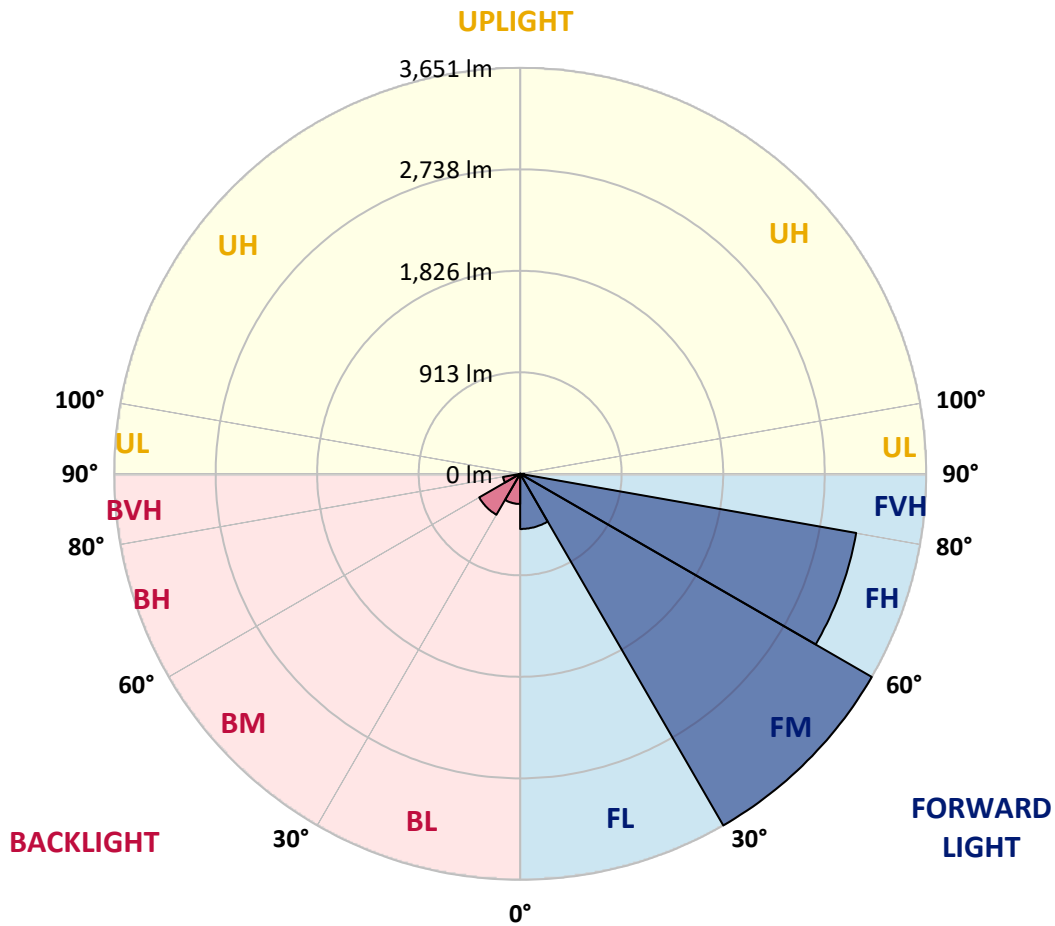
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.3	6.1			
FM (30°-60°)	3651.3	45.0			
FH (60°-80°)	3068.2	37.9			G2/5000
FVH (80°-90°)	35.7	0.4			G1/100
BL (0°-30°)	271.5	3.3	B1/500		
BM (30°-60°)	425.4	5.2	B1/1000		
BH (60°-80°)	156.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4
2.5°	1187.1	1197.8	1196.3	1203.5	1206.0	1216.3	1226.5	1240.3	1255.7	1255.2
5°	1120.0	1130.8	1133.3	1143.1	1155.4	1171.2	1192.2	1219.9	1248.5	1253.1
7.5°	1040.7	1052.0	1058.6	1078.1	1100.6	1133.3	1167.6	1208.1	1255.7	1262.3
10°	961.3	971.6	980.3	1007.9	1043.8	1092.4	1148.2	1206.5	1270.5	1280.3
12.5°	912.2	921.9	931.7	955.7	1000.2	1059.6	1135.4	1213.7	1295.1	1308.9
15°	894.8	903.5	911.2	932.7	974.1	1041.7	1132.8	1228.6	1326.3	1344.8
17.5°	897.4	902.0	907.1	923.5	963.9	1033.5	1137.4	1254.2	1363.2	1379.6
20°	912.2	914.8	915.3	926.5	962.4	1032.5	1146.7	1278.7	1398.0	1420.0
22.5°	931.1	932.2	931.1	938.8	972.1	1040.2	1158.9	1308.4	1436.9	1457.4
25°	1019.7	1000.2	975.7	960.8	988.5	1055.0	1177.4	1348.3	1479.4	1499.4
27.5°	1294.6	1238.8	1150.7	1052.0	1022.3	1076.5	1203.0	1388.8	1522.4	1540.3
30°	1741.0	1667.8	1518.3	1295.6	1130.8	1121.6	1236.2	1429.2	1567.9	1587.4
32.5°	2188.4	2170.5	1997.9	1689.8	1375.0	1221.9	1291.5	1484.0	1628.3	1643.7
35°	2640.9	2604.5	2463.3	2158.7	1751.2	1426.1	1383.7	1555.7	1707.7	1725.1
37.5°	2987.4	2965.4	2877.9	2627.1	2197.6	1741.5	1541.3	1666.7	1822.9	1842.3
40°	3293.6	3283.3	3253.6	3088.3	2696.7	2154.1	1786.5	1838.7	1982.6	2005.6
42.5°	3534.1	3558.2	3575.1	3529.0	3211.1	2625.0	2116.2	2080.4	2205.3	2228.8
45°	3780.4	3788.6	3856.6	3923.2	3722.0	3117.5	2487.8	2363.4	2482.2	2511.4
47.5°	3938.5	3971.3	4091.1	4208.3	4151.5	3605.8	2887.1	2697.7	2803.2	2857.9
50°	3950.3	4012.3	4177.1	4381.3	4464.3	4070.6	3321.2	3078.6	3190.7	3251.1
52.5°	3754.3	3850.5	4105.9	4404.9	4633.2	4464.3	3770.1	3459.4	3603.3	3682.1
55°	2878.4	3004.3	3838.2	4276.9	4639.8	4762.7	4207.3	3856.1	4062.9	4152.0
57.5°	2507.8	2571.3	3017.6	4054.7	4516.5	4883.0	4602.5	4233.9	4563.1	4673.6
60°	2086.5	2169.9	2530.8	3691.3	4349.1	4894.8	4951.6	4721.2	5105.2	5229.6
62.5°	1418.0	1508.6	1867.4	3066.8	4120.3	4889.1	5237.7	5222.9	5707.7	5841.3
65°	878.4	935.2	1171.7	2504.2	3800.3	4895.3	5537.2	5832.1	6343.4	6479.1
67.5°	694.1	720.2	843.6	1922.7	3249.0	4757.1	5836.2	6404.9	6941.9	7049.4
70°	466.3	482.2	613.8	1289.0	2417.2	4119.2	5830.5	6692.6	7250.0	7303.8
72.5°	245.7	258.0	358.8	596.9	1459.9	2928.1	4914.7	6348.6	6943.4	6862.5
75°	122.9	143.3	241.6	303.0	623.5	1633.0	3051.9	5005.3	5465.0	5151.7
77.5°	93.2	112.6	199.6	199.6	217.0	549.8	1292.5	2730.0	2518.0	2096.7
80°	59.4	76.8	174.6	151.0	90.6	139.7	336.8	764.8	534.9	407.0
82.5°	34.8	50.2	145.4	99.8	50.7	51.7	95.2	162.8	138.7	108.0
85°	13.8	32.8	99.8	39.4	20.0	12.8	28.7	34.8	28.7	21.5
87.5°	0.0	7.7	17.4	0.0	1.5	1.0	2.0	2.6	2.6	2.0
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°
1264.4	0°	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4	1264.4
1265.4	2.5°	1270.0	1271.0	1274.1	1274.6	1267.5	1258.2	1254.7	1253.1	1247.0	1246.5
1273.6	5°	1285.4	1290.0	1285.4	1272.1	1240.3	1195.8	1162.0	1134.4	1109.3	1101.6
1301.8	7.5°	1316.1	1320.7	1306.9	1254.7	1174.8	1086.2	1006.4	950.1	899.4	880.5
1336.1	10°	1360.1	1366.3	1322.7	1217.3	1076.0	933.7	798.6	703.3	629.1	598.9
1382.6	12.5°	1415.4	1418.0	1331.4	1160.5	947.5	744.3	552.9	451.0	384.9	360.4
1438.9	15°	1476.3	1472.7	1332.5	1083.2	772.5	526.2	360.9	296.4	269.8	261.6
1495.3	17.5°	1540.3	1525.5	1312.0	971.6	580.5	359.9	267.7	252.4	247.8	245.7
1551.1	20°	1603.3	1570.0	1274.6	825.7	416.7	268.7	243.2	238.5	236.0	235.0
1607.4	22.5°	1660.6	1603.8	1210.6	656.3	302.5	237.5	229.8	225.7	221.1	219.1
1662.1	25°	1716.4	1623.2	1120.5	498.1	242.1	222.2	216.0	208.3	202.2	199.6
1721.0	27.5°	1770.7	1635.5	1007.9	368.6	216.0	207.8	196.6	185.8	181.2	180.2
1784.0	30°	1828.5	1639.6	880.0	274.9	200.2	189.9	173.5	161.2	158.7	159.2
1868.9	32.5°	1899.1	1645.8	751.0	225.2	186.8	168.4	149.0	136.2	134.1	136.2
1992.8	35°	1983.6	1658.0	626.6	207.3	175.1	146.4	125.4	114.7	112.6	114.2
2151.5	37.5°	2098.3	1678.0	510.4	203.7	165.3	128.0	105.5	96.7	96.7	97.3
2346.0	40°	2250.8	1731.2	406.4	201.2	160.2	114.2	89.1	85.5	87.0	88.0
2593.8	42.5°	2436.6	1844.4	336.3	198.1	154.6	108.0	80.9	79.3	81.9	82.9
2890.7	45°	2645.0	1987.7	311.7	193.0	149.5	112.1	77.3	75.2	78.3	78.8
3223.4	47.5°	2860.5	2128.0	308.7	187.4	144.4	118.2	76.3	71.7	75.2	75.8
3578.7	50°	3078.6	2219.6	311.7	178.7	136.2	118.2	76.8	68.1	71.2	72.7
3947.3	52.5°	3298.2	2261.6	309.7	159.7	121.8	111.1	76.8	65.0	68.1	69.1
4345.5	55°	3511.1	2253.4	278.5	131.6	103.4	98.3	74.7	62.5	64.5	65.0
4721.8	57.5°	3679.5	2139.2	220.6	102.4	84.0	81.9	68.1	59.4	60.9	60.4
5066.8	60°	3767.6	1888.4	157.7	78.8	66.0	64.5	59.9	55.3	56.3	53.7
5359.1	62.5°	3768.6	1556.7	105.5	62.5	52.7	51.2	51.2	49.7	48.6	43.5
5585.3	65°	3688.2	1188.6	70.1	49.7	42.5	39.9	43.0	42.5	38.9	31.7
5654.4	67.5°	3506.0	779.1	53.2	38.9	32.8	31.2	34.3	35.8	33.3	26.6
5402.6	70°	3131.3	453.5	44.0	30.2	24.6	23.0	27.6	30.7	27.6	21.5
4617.8	72.5°	2601.0	244.7	35.8	22.5	16.9	15.4	22.0	25.1	22.0	15.9
2962.9	75°	1687.7	131.0	27.6	14.8	8.7	9.7	16.4	18.4	15.4	10.2
869.7	77.5°	566.7	57.8	17.4	7.2	4.1	4.1	9.7	11.3	7.2	3.6
158.2	80°	126.4	24.1	7.2	3.1	1.5	1.5	2.0	2.0	1.0	0.0
48.6	82.5°	41.5	9.7	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
12.3	85°	15.9	3.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	6.1	0.5	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>
1264.4
1247.5
1097.0
872.8
586.1
352.7
261.6
245.2
233.9
218.6
198.6
179.2
159.2
135.7
113.6
96.7
88.0
82.9
79.3
76.3
73.2
69.1
65.0
60.4
53.2
42.0
30.7
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