

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: P939344

Luminaire Tested: **GALN-SB1D-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-927-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

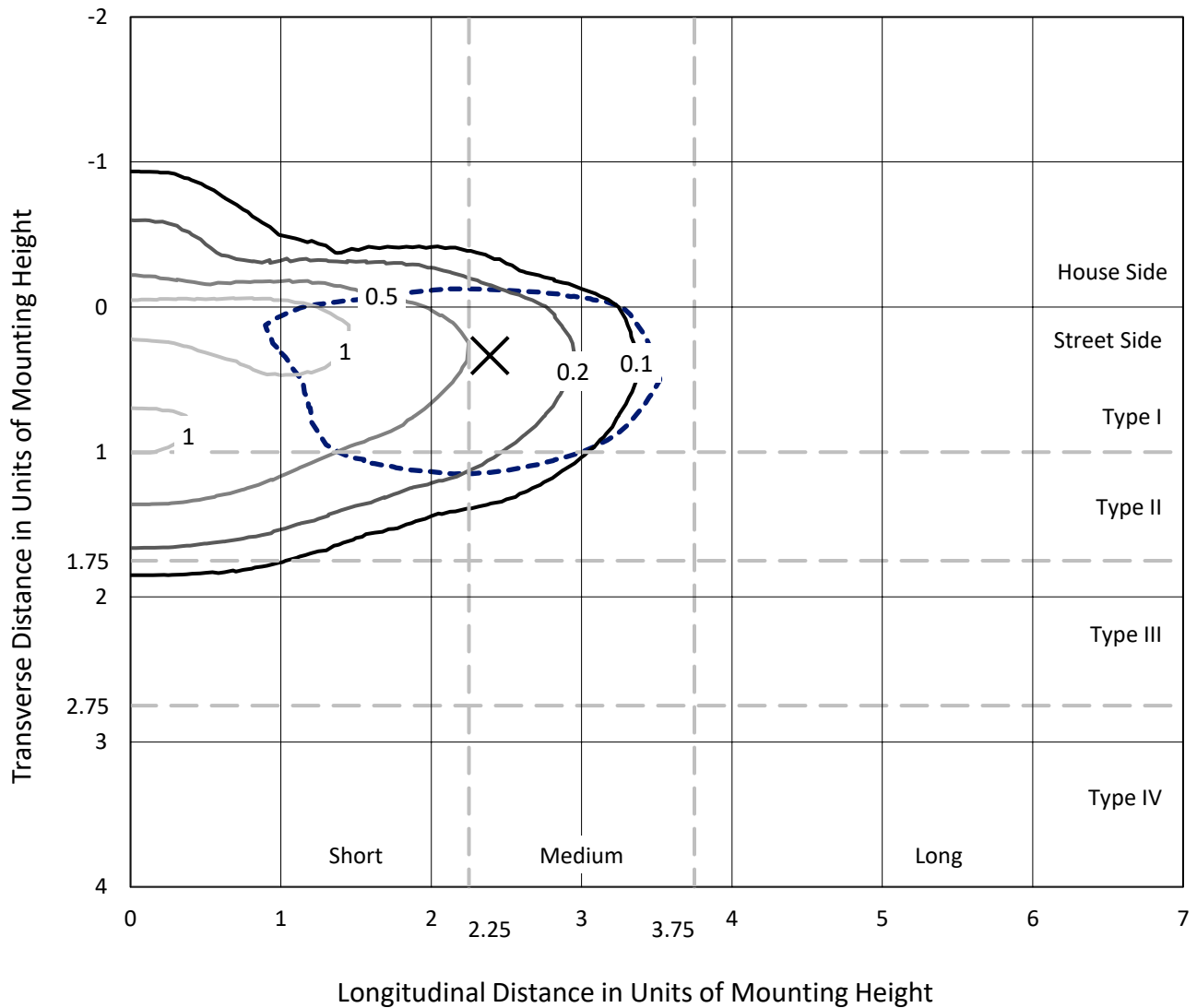
Lumens per Lamp: N/A  
Luminaire Lumens: 4525 lumens  
Efficiency: N/A  
Efficacy: 56.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

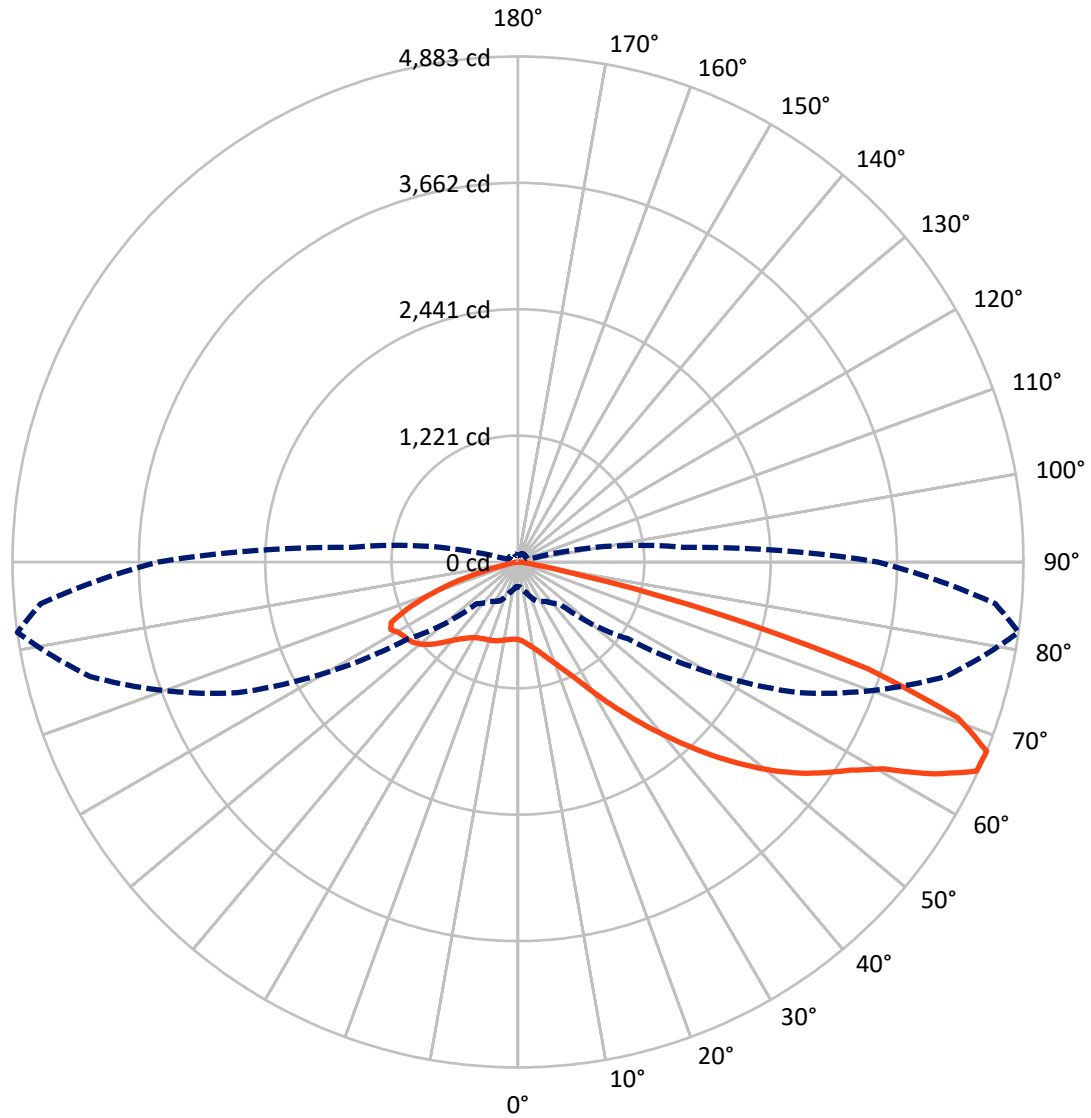
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P939344  
CATALOG NUMBER: GALN-SB1D-927-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	819.7	0.0	819.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3705.3	0.0	3705.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4525.0	0.0	4525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.8	1.5
10°-20°	173.6	3.8
20°-30°	278.0	6.1
30°-40°	491.5	10.9
40°-50°	861.2	19.0
50°-60°	1148.7	25.4
60°-70°	1069.3	23.6
70°-80°	410.4	9.1
80°-90°	25.5	0.6
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°	4525.0	100.0
0°-180°	4525.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939344

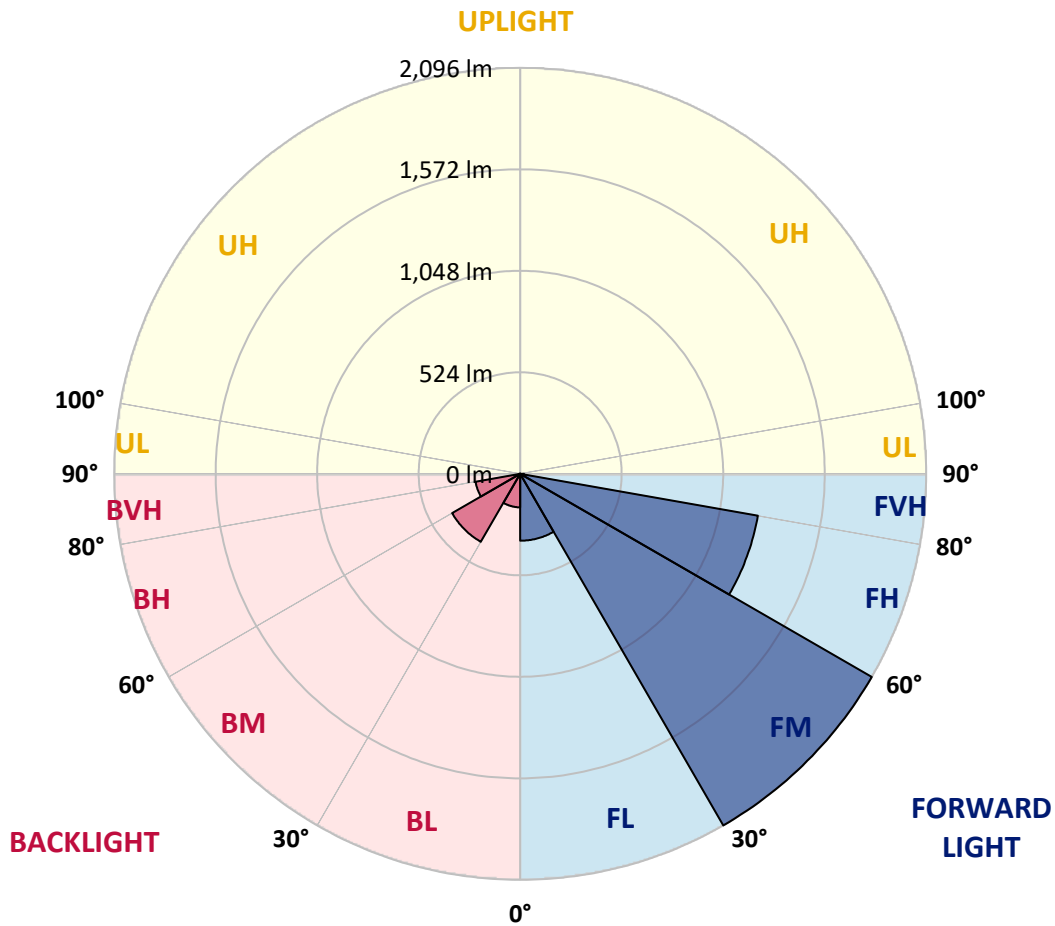
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.2	7.6			
FM	(30°-60°)	2095.8	46.3			
FH	(60°-80°)	1245.8	27.5			G1/1800
FVH	(80°-90°)	18.5	0.4			G1/100
BL	(0°-30°)	173.1	3.8	B1/500		
BM	(30°-60°)	405.7	9.0	B1/1000		
BH	(60°-80°)	234.0	5.2	B1/500		G1/500
BVH	(80°-90°)	7.0	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



REPORT NUMBER: P939344

CATALOG NUMBER: GALN-SB1D-927-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6
2.5°	792.3	796.9	794.3	793.0	790.7	787.4	784.8	776.7	768.2	762.7
5°	808.3	812.8	812.5	813.8	815.4	816.4	815.8	806.7	794.6	785.2
7.5°	794.6	799.8	804.0	810.6	822.0	834.0	839.9	837.9	825.5	812.5
10°	755.8	761.4	771.5	786.8	810.9	837.0	858.8	868.9	861.1	846.7
12.5°	684.8	690.3	710.2	743.4	783.8	829.1	870.8	897.9	899.8	885.5
15°	605.0	610.5	631.7	673.4	735.0	807.6	877.3	928.5	945.8	933.4
17.5°	555.5	560.4	576.3	609.9	674.1	764.6	875.1	961.1	1000.5	990.7
20°	540.5	544.7	552.2	575.7	629.1	720.0	860.1	991.7	1059.5	1053.9
22.5°	556.4	560.4	562.6	573.1	606.6	690.7	841.2	1023.0	1127.9	1128.5
25°	593.3	597.2	594.6	601.1	615.7	681.5	834.0	1059.8	1213.9	1221.1
27.5°	653.9	654.2	648.0	647.7	649.9	695.2	841.5	1099.2	1322.4	1335.7
30°	775.4	770.5	746.7	721.0	709.2	736.3	862.4	1145.8	1450.4	1474.2
32.5°	962.7	955.5	911.9	850.3	788.4	802.4	899.8	1198.9	1589.8	1632.9
35°	1166.0	1164.0	1118.4	1026.9	918.7	896.6	960.8	1268.6	1742.0	1810.4
37.5°	1355.0	1354.0	1327.9	1220.1	1088.5	1027.9	1058.5	1359.8	1904.9	2003.9
40°	1527.6	1530.6	1504.5	1408.1	1275.5	1196.3	1191.4	1472.6	2086.0	2214.7
42.5°	1676.8	1680.1	1653.7	1582.4	1460.2	1382.6	1354.6	1610.7	2262.9	2441.1
45°	1778.2	1798.4	1794.4	1737.4	1649.8	1569.3	1550.8	1784.0	2464.6	2681.2
47.5°	1806.8	1825.4	1854.7	1862.5	1809.1	1729.9	1752.1	1992.8	2668.5	2921.7
50°	1736.1	1753.4	1814.3	1895.4	1932.6	1908.1	1947.9	2216.7	2877.4	3161.5
52.5°	1596.7	1614.3	1691.2	1819.5	1971.0	2047.9	2144.3	2437.2	3079.7	3388.5
55°	1395.0	1413.6	1512.3	1657.6	1897.7	2105.6	2308.2	2657.5	3265.1	3592.8
57.5°	1120.7	1134.4	1237.0	1440.3	1713.3	2048.2	2429.1	2897.9	3439.7	3793.5
60°	730.4	742.5	861.7	1088.5	1407.7	1856.7	2453.2	3166.0	3671.6	4054.4
62.5°	485.8	493.9	564.6	731.1	991.4	1488.9	2312.1	3380.1	4011.8	4508.6
65°	333.3	341.4	412.1	528.1	640.5	984.9	1906.5	3351.7	4320.0	4869.2
67.5°	237.8	244.7	304.6	414.1	463.6	572.1	1292.4	2989.4	4275.6	4882.9
70°	170.4	174.3	223.8	322.5	368.5	343.7	718.7	2286.4	3743.6	4508.9
72.5°	119.2	120.5	155.4	245.6	296.8	250.9	342.1	1524.4	2831.4	3539.0
75°	80.8	82.4	104.6	180.2	238.2	191.6	181.1	817.4	1662.2	1959.0
77.5°	49.5	50.2	67.4	123.1	178.2	146.0	116.6	346.3	643.1	631.4
80°	28.0	28.0	43.0	76.6	121.5	94.2	81.8	147.3	203.6	178.9
82.5°	15.6	16.0	31.3	47.6	80.5	55.7	45.0	68.1	88.0	77.9
85°	6.5	7.2	19.2	22.5	38.4	27.7	18.2	28.7	32.6	29.0
87.5°	0.7	1.0	5.9	4.2	4.6	5.5	2.6	5.5	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939344  
 CATALOG NUMBER: GALN-SB1D-927-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
749.6	0°	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6
760.7	2.5°	754.5	749.6	737.3	722.9	704.0	694.9	682.5	674.1	666.9	667.5
779.6	5°	769.2	756.8	729.1	694.6	651.6	621.0	588.4	565.9	547.7	543.7
805.7	7.5°	789.4	769.8	721.3	659.1	586.4	531.4	482.2	450.6	428.1	420.9
837.3	10°	815.4	787.1	711.2	614.4	509.9	439.8	387.0	362.3	347.0	341.8
874.4	12.5°	845.7	807.0	697.8	560.0	431.0	363.6	330.0	317.6	312.8	311.1
920.0	15°	883.9	831.7	677.6	495.5	364.2	317.0	302.7	301.0	301.7	301.0
974.8	17.5°	929.1	858.8	644.7	429.1	319.3	293.2	288.0	289.3	290.9	290.6
1036.0	20°	978.7	885.5	602.7	370.1	288.6	276.3	273.3	274.6	275.9	275.3
1106.7	22.5°	1035.0	914.2	556.1	324.2	268.1	260.6	257.4	257.7	257.7	256.4
1196.3	25°	1102.5	945.8	507.3	291.6	252.5	246.6	242.7	241.4	239.5	235.5
1305.1	27.5°	1182.9	979.3	460.3	268.8	240.1	234.6	230.0	226.7	221.9	215.3
1435.7	30°	1273.5	1020.0	420.6	254.4	230.3	224.8	219.6	214.7	207.5	199.4
1585.9	32.5°	1380.0	1063.7	391.6	245.0	221.5	215.7	209.5	203.6	195.8	187.7
1754.7	35°	1507.1	1116.5	374.7	238.5	214.7	206.9	200.0	193.5	187.7	180.5
1938.1	37.5°	1644.9	1172.5	369.4	235.2	210.1	198.1	190.3	185.7	185.0	180.8
2136.5	40°	1795.7	1239.0	373.4	233.3	205.2	189.6	181.1	180.2	181.8	174.3
2348.6	42.5°	1955.4	1317.8	379.9	231.0	198.4	181.1	173.0	173.0	171.7	161.3
2572.8	45°	2128.1	1408.7	386.4	225.4	190.3	172.7	166.5	164.2	158.7	148.6
2798.2	47.5°	2302.0	1501.2	391.3	215.3	180.5	165.5	160.0	154.7	146.6	137.5
3019.4	50°	2467.2	1584.3	386.1	200.4	169.4	158.7	152.8	145.6	136.8	130.6
3228.9	52.5°	2614.8	1656.3	363.9	182.8	157.7	151.5	146.3	138.8	131.6	125.1
3417.8	55°	2743.1	1714.6	324.8	166.2	147.3	145.3	140.1	130.6	120.9	115.3
3605.2	57.5°	2866.3	1758.9	275.9	152.5	137.8	138.5	130.6	122.2	113.0	107.2
3857.7	60°	3030.2	1818.2	226.4	139.8	127.7	129.7	121.2	115.0	103.6	96.1
4290.6	62.5°	3292.1	1910.4	179.8	124.1	116.0	116.6	113.0	105.6	91.9	83.1
4611.5	65°	3499.9	1876.5	141.7	107.2	102.6	103.6	103.6	95.5	80.8	70.7
4628.8	67.5°	3476.5	1606.8	113.0	90.6	89.9	90.6	92.8	86.0	71.7	63.5
4276.3	70°	3202.5	1278.1	90.6	75.3	78.2	76.6	83.1	78.5	64.5	56.4
3315.2	72.5°	2613.1	920.7	69.1	62.2	59.9	62.6	74.9	70.7	53.8	44.6
1756.0	75°	1527.0	491.3	51.5	49.2	43.3	52.1	66.5	60.3	41.0	32.9
538.2	77.5°	497.2	171.4	37.8	36.2	32.3	42.0	56.7	50.8	33.6	26.1
157.7	80°	133.2	51.8	25.7	23.8	20.9	31.3	45.0	40.4	24.1	16.9
67.8	82.5°	53.4	21.8	15.0	13.4	11.4	21.5	35.5	32.6	17.9	10.8
21.2	85°	17.3	7.2	5.5	4.2	5.2	13.4	21.2	22.2	12.7	5.5
3.3	87.5°	2.3	1.0	1.0	1.3	1.0	2.3	6.5	6.2	3.6	0.7
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>
749.6
661.0
534.9
413.8
337.8
310.2
300.7
290.0
275.0
255.7
234.9
214.7
198.7
188.0
179.8
180.5
174.6
161.3
148.2
137.2
129.7
124.5
114.7
106.5
95.1
82.4
69.7
62.2
55.4
43.7
31.9
25.1
16.6
10.8
4.2
0.0
0.0

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