

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: P938994

Luminaire Tested: **GALN-SB1B-850-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938994  
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-SB1B-850-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

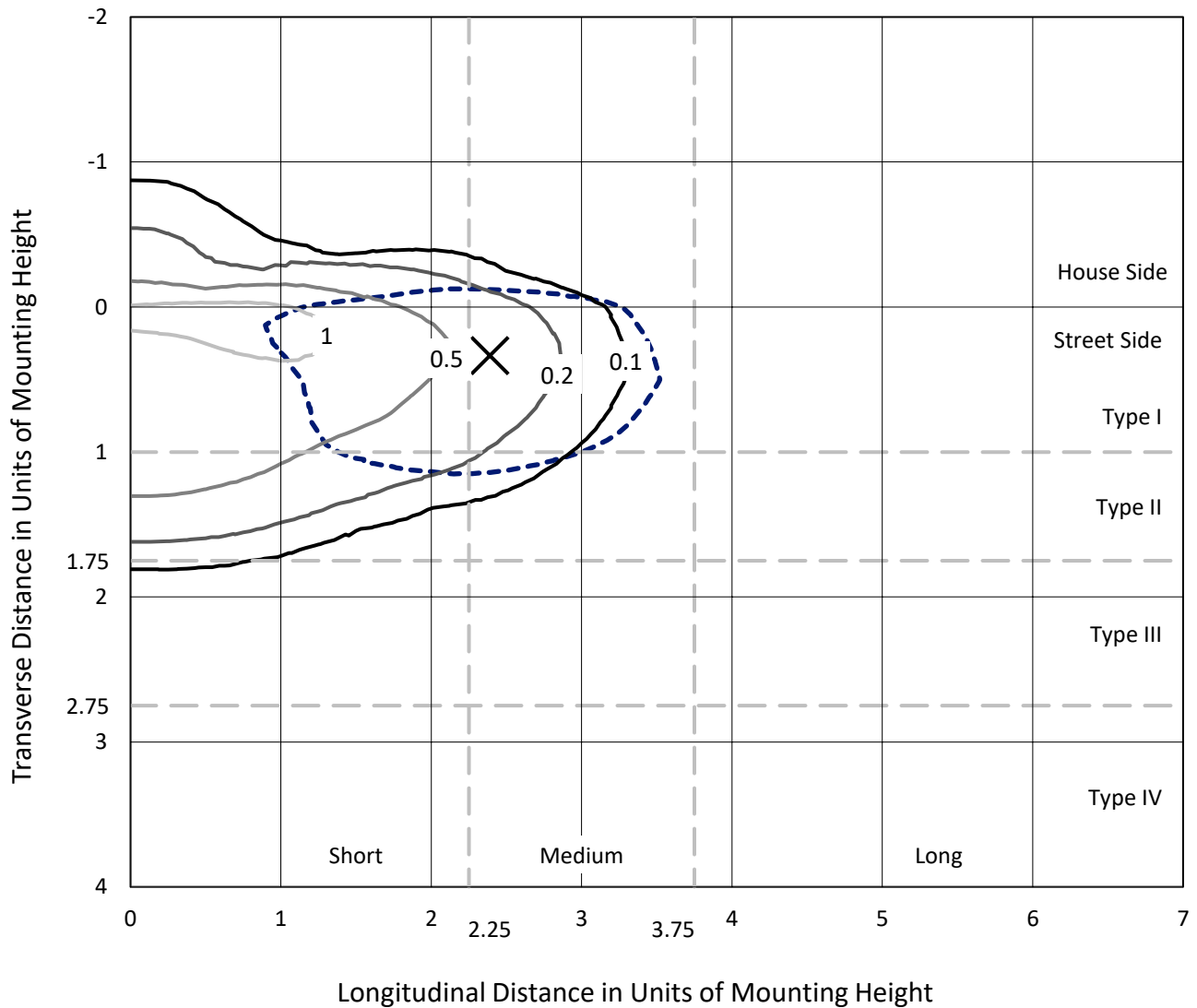
Lumens per Lamp: N/A  
Luminaire Lumens: 3934 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

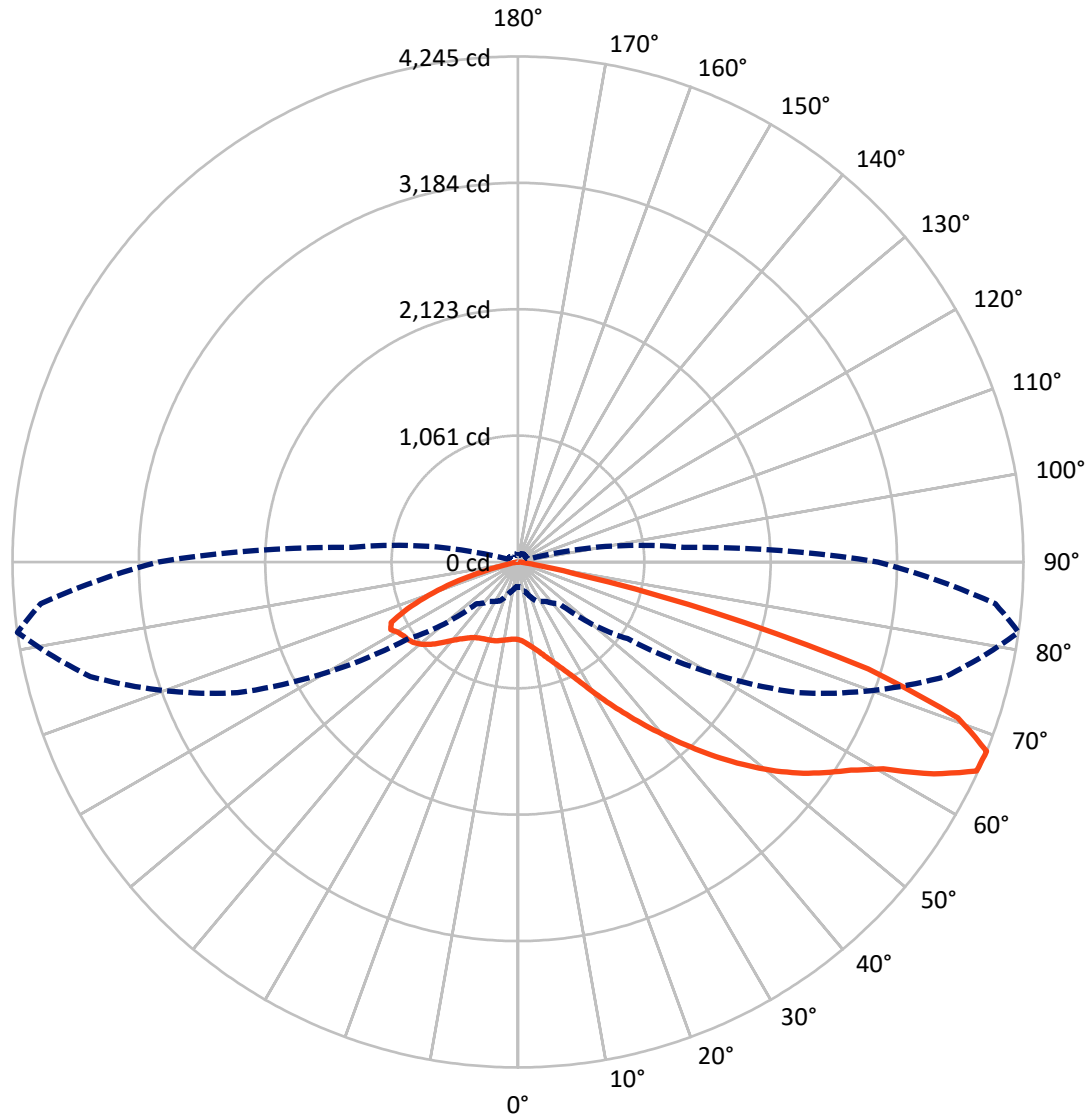
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Medium - N/A

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### 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	712.6	0.0	712.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3221.4	0.0	3221.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	3934.0	0.0	3934.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	1.5
10°-20°	150.9	3.8
20°-30°	241.7	6.1
30°-40°	427.3	10.9
40°-50°	748.8	19.0
50°-60°	998.6	25.4
60°-70°	929.7	23.6
70°-80°	356.8	9.1
80°-90°	22.2	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°	3934.0	100.0
0°-180°	3934.0	100.0

**Coefficient of Utilization**



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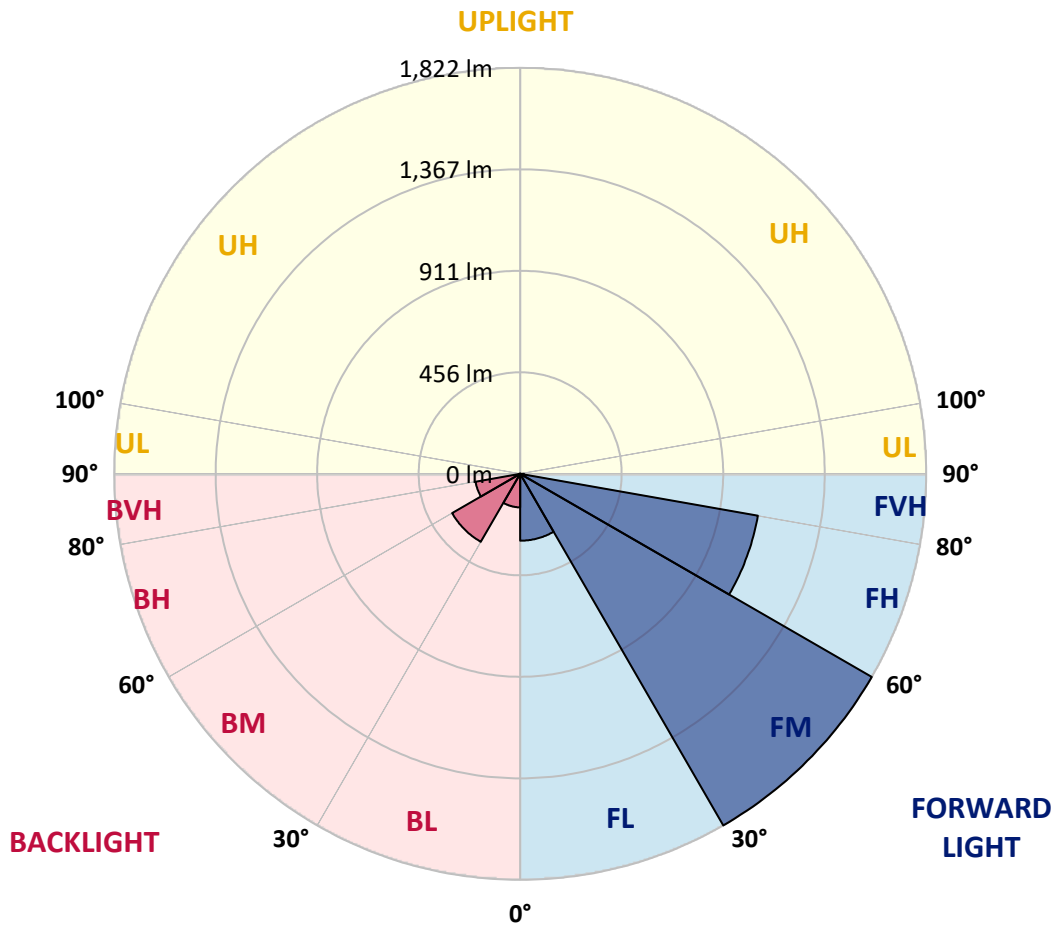
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.1	7.6			
FM	(30°-60°)	1822.1	46.3			
FH	(60°-80°)	1083.1	27.5			G1/1800
FVH	(80°-90°)	16.1	0.4			G1/100
BL	(0°-30°)	150.5	3.8	B1/500		
BM	(30°-60°)	352.7	9.0	B1/1000		
BH	(60°-80°)	203.4	5.2	B1/500		G1/500
BVH	(80°-90°)	6.0	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7
2.5°	688.8	692.8	690.5	689.4	687.4	684.6	682.3	675.2	667.9	663.1
5°	702.7	706.7	706.4	707.5	708.9	709.8	709.2	701.3	690.8	682.6
7.5°	690.8	695.3	699.0	704.7	714.6	725.1	730.2	728.5	717.7	706.4
10°	657.1	661.9	670.7	684.0	705.0	727.6	746.6	755.4	748.6	736.1
12.5°	595.4	600.2	617.5	646.3	681.5	720.8	757.1	780.6	782.3	769.8
15°	526.0	530.8	549.2	585.5	639.0	702.1	762.8	807.2	822.2	811.5
17.5°	482.9	487.2	501.0	530.2	586.0	664.8	760.8	835.6	869.8	861.3
20°	469.9	473.6	480.1	500.5	546.9	626.0	747.7	862.2	921.1	916.3
22.5°	483.8	487.2	489.2	498.2	527.4	600.5	731.3	889.4	980.6	981.1
25°	515.8	519.2	516.9	522.6	535.3	592.5	725.1	921.4	1055.3	1061.6
27.5°	568.5	568.7	563.4	563.1	565.1	604.4	731.6	955.6	1149.7	1161.3
30°	674.1	669.9	649.2	626.8	616.6	640.1	749.7	996.1	1261.0	1281.7
32.5°	837.0	830.7	792.8	739.3	685.4	697.6	782.3	1042.3	1382.2	1419.6
35°	1013.7	1012.0	972.4	892.8	798.7	779.5	835.3	1102.9	1514.5	1574.0
37.5°	1178.0	1177.1	1154.5	1060.7	946.3	893.6	920.2	1182.2	1656.1	1742.2
40°	1328.1	1330.7	1308.0	1224.2	1108.9	1040.0	1035.8	1280.2	1813.6	1925.5
42.5°	1457.8	1460.7	1437.7	1375.7	1269.5	1202.1	1177.7	1400.3	1967.4	2122.3
45°	1545.9	1563.5	1560.1	1510.5	1434.3	1364.4	1348.2	1551.0	2142.7	2331.0
47.5°	1570.8	1587.0	1612.5	1619.3	1572.8	1504.0	1523.3	1732.6	2320.0	2540.1
50°	1509.4	1524.4	1577.4	1647.9	1680.2	1658.9	1693.5	1927.2	2501.6	2748.5
52.5°	1388.1	1403.4	1470.3	1581.9	1713.6	1780.4	1864.3	2118.9	2677.4	2946.0
55°	1212.8	1229.0	1314.8	1441.1	1649.9	1830.6	2006.7	2310.4	2838.6	3123.5
57.5°	974.3	986.2	1075.5	1252.2	1489.5	1780.7	2111.8	2519.4	2990.4	3298.0
60°	635.0	645.5	749.2	946.3	1223.9	1614.2	2132.8	2752.5	3192.1	3524.9
62.5°	422.3	429.4	490.9	635.6	861.9	1294.4	2010.1	2938.6	3487.8	3919.7
65°	289.8	296.8	358.3	459.1	556.8	856.2	1657.5	2914.0	3755.7	4233.3
67.5°	206.8	212.7	264.8	360.0	403.0	497.4	1123.6	2599.0	3717.2	4245.2
70°	148.1	151.5	194.6	280.4	320.3	298.8	624.8	1987.8	3254.7	3920.0
72.5°	103.7	104.8	135.1	213.6	258.0	218.1	297.4	1325.3	2461.6	3076.8
75°	70.2	71.7	90.9	156.6	207.0	166.5	157.5	710.6	1445.1	1703.1
77.5°	43.1	43.6	58.6	107.1	154.9	126.9	101.4	301.1	559.1	548.9
80°	24.4	24.4	37.4	66.6	105.6	81.9	71.1	128.0	177.0	155.5
82.5°	13.6	13.9	27.2	41.4	70.0	48.4	39.1	59.2	76.5	67.7
85°	5.7	6.2	16.7	19.5	33.4	24.1	15.9	24.9	28.3	25.2
87.5°	0.6	0.8	5.1	3.7	4.0	4.8	2.3	4.8	4.0	4.0
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°
651.7	0°	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7
661.4	2.5°	656.0	651.7	641.0	628.5	612.1	604.1	593.4	586.0	579.8	580.4
677.8	5°	668.7	658.0	633.9	603.9	566.5	539.9	511.5	492.0	476.1	472.7
700.4	7.5°	686.3	669.3	627.1	573.0	509.8	462.0	419.2	391.7	372.2	365.9
727.9	10°	708.9	684.3	618.3	534.2	443.3	382.4	336.5	315.0	301.6	297.1
760.2	12.5°	735.3	701.6	606.7	486.9	374.7	316.1	286.9	276.2	271.9	270.5
799.9	15°	768.4	723.1	589.1	430.8	316.7	275.6	263.1	261.7	262.3	261.7
847.4	17.5°	807.8	746.6	560.5	373.0	277.6	254.9	250.4	251.5	252.9	252.6
900.7	20°	850.8	769.8	524.0	321.8	250.9	240.2	237.6	238.8	239.9	239.3
962.2	22.5°	899.8	794.8	483.5	281.8	233.1	226.6	223.8	224.0	224.0	222.9
1040.0	25°	958.5	822.2	441.0	253.5	219.5	214.4	211.0	209.9	208.2	204.8
1134.7	27.5°	1028.4	851.4	400.2	233.7	208.7	203.9	200.0	197.1	192.9	187.2
1248.2	30°	1107.2	886.8	365.7	221.2	200.2	195.4	190.9	186.7	180.4	173.3
1378.8	32.5°	1199.8	924.8	340.5	213.0	192.6	187.5	182.1	177.0	170.2	163.1
1525.5	35°	1310.3	970.7	325.7	207.3	186.7	179.9	173.9	168.2	163.1	156.9
1685.0	37.5°	1430.1	1019.4	321.2	204.5	182.7	172.2	165.4	161.4	160.9	157.2
1857.5	40°	1561.2	1077.2	324.6	202.8	178.4	164.8	157.5	156.6	158.0	151.5
2041.9	42.5°	1700.0	1145.7	330.3	200.8	172.5	157.5	150.4	150.4	149.3	140.2
2236.7	45°	1850.1	1224.7	335.9	196.0	165.4	150.1	144.7	142.8	137.9	129.2
2432.7	47.5°	2001.4	1305.2	340.2	187.2	156.9	143.9	139.1	134.5	127.5	119.5
2625.0	50°	2145.0	1377.4	335.6	174.2	147.3	137.9	132.8	126.6	119.0	113.6
2807.2	52.5°	2273.3	1440.0	316.4	158.9	137.1	131.7	127.2	120.7	114.4	108.8
2971.4	55°	2384.9	1490.7	282.4	144.5	128.0	126.3	121.8	113.6	105.1	100.3
3134.3	57.5°	2491.9	1529.2	239.9	132.6	119.8	120.4	113.6	106.2	98.3	93.2
3353.8	60°	2634.4	1580.8	196.9	121.5	111.0	112.7	105.4	100.0	90.1	83.6
3730.2	62.5°	2862.1	1660.9	156.3	107.9	100.8	101.4	98.3	91.8	79.9	72.2
4009.2	65°	3042.8	1631.5	123.2	93.2	89.2	90.1	90.1	83.0	70.2	61.5
4024.2	67.5°	3022.4	1396.9	98.3	78.7	78.2	78.7	80.7	74.8	62.3	55.2
3717.8	70°	2784.2	1111.1	78.7	65.4	68.0	66.6	72.2	68.3	56.1	49.0
2882.2	72.5°	2271.9	800.4	60.0	54.1	52.1	54.4	65.1	61.5	46.7	38.8
1526.7	75°	1327.5	427.1	44.8	42.8	37.7	45.3	57.8	52.4	35.7	28.6
467.9	77.5°	432.2	149.0	32.9	31.4	28.0	36.5	49.3	44.2	29.2	22.7
137.1	80°	115.8	45.0	22.4	20.7	18.1	27.2	39.1	35.1	21.0	14.7
58.9	82.5°	46.5	19.0	13.0	11.6	9.9	18.7	30.9	28.3	15.6	9.3
18.4	85°	15.0	6.2	4.8	3.7	4.5	11.6	18.4	19.3	11.0	4.8
2.8	87.5°	2.0	0.8	0.8	1.1	0.8	2.0	5.7	5.4	3.1	0.6
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>
651.7
574.7
465.1
359.7
293.7
269.6
261.4
252.1
239.1
222.3
204.2
186.7
172.8
163.4
156.3
156.9
151.8
140.2
128.9
119.2
112.7
108.2
99.7
92.6
82.7
71.7
60.6
54.1
48.2
38.0
27.8
21.8
14.4
9.3
3.7
0.0
0.0

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