

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: P938754

Luminaire Tested: **GALN-SB1A-740-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938754  
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-SB1A-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

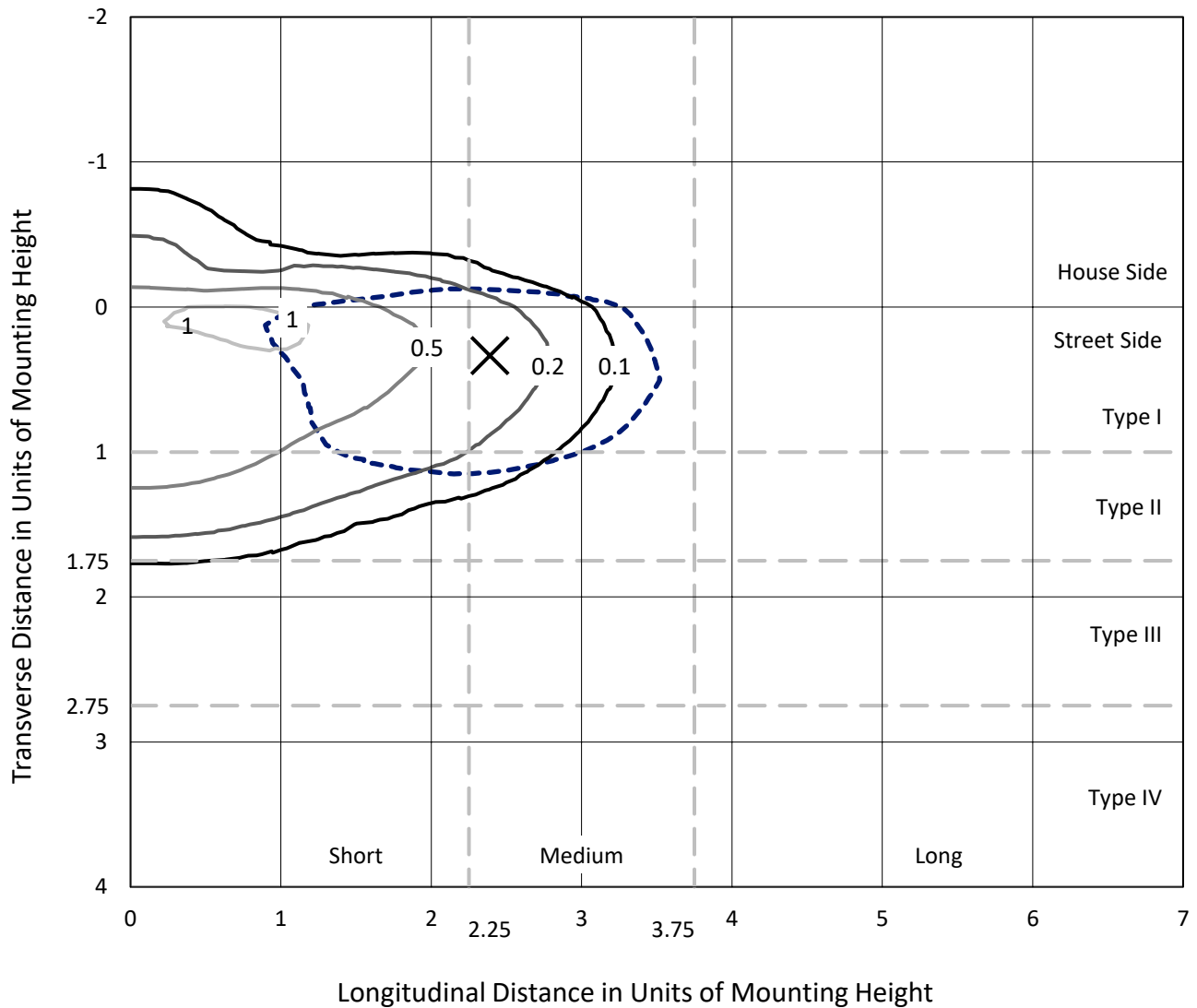
Lumens per Lamp: N/A  
Luminaire Lumens: 3467 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

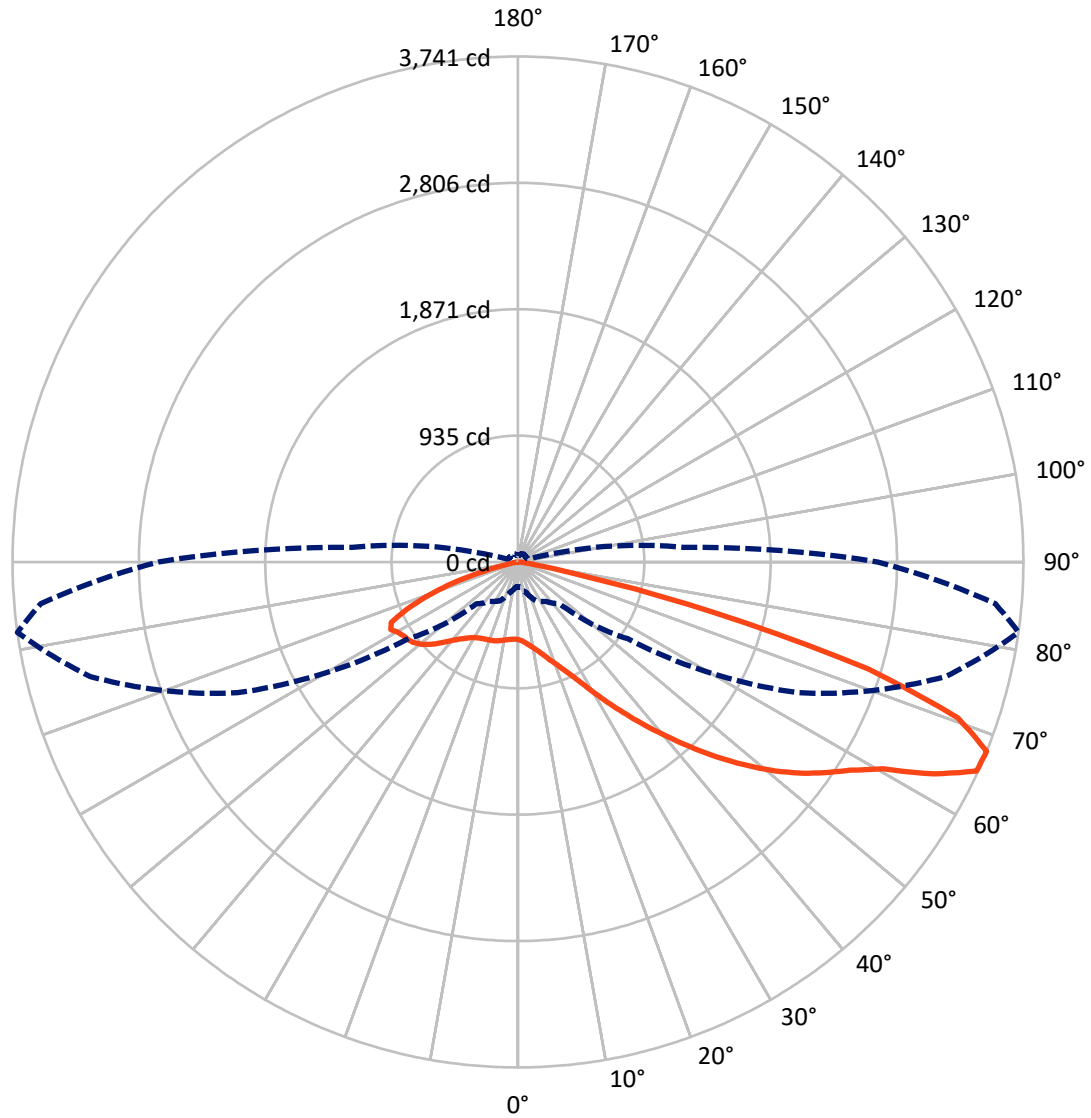
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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CATALOG NUMBER: GALN-SB1A-740-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	628.0	0.0	628.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	2839.0	0.0	2839.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	3467.0	0.0	3467.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.2	1.5
10°-20°	133.0	3.8
20°-30°	213.0	6.1
30°-40°	376.6	10.9
40°-50°	659.9	19.0
50°-60°	880.1	25.4
60°-70°	819.3	23.6
70°-80°	314.5	9.1
80°-90°	19.5	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°	3467.0	100.0
0°-180°	3467.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P938754

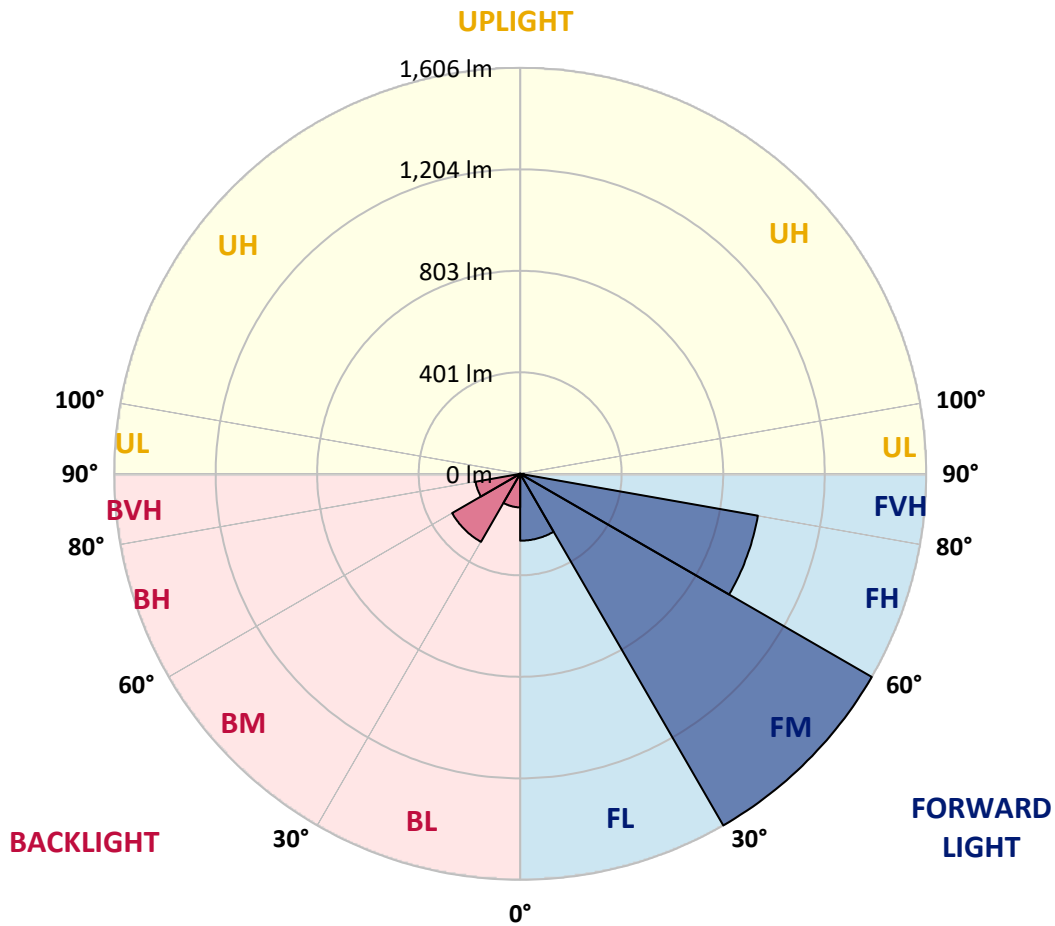
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.5	7.6			
FM (30°-60°)	1605.8	46.3			
FH (60°-80°)	954.5	27.5			G1/1800
FVH (80°-90°)	14.2	0.4			G1/100
BL (0°-30°)	132.6	3.8	B1/500		
BM (30°-60°)	310.8	9.0	B1/1000		
BH (60°-80°)	179.2	5.2	B1/500		G1/500
BVH (80°-90°)	5.3	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°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4
2.5°	607.1	610.6	608.6	607.6	605.8	603.3	601.3	595.1	588.6	584.3
5°	619.3	622.8	622.5	623.5	624.8	625.5	625.0	618.0	608.8	601.6
7.5°	608.8	612.8	616.1	621.0	629.8	639.0	643.5	642.0	632.5	622.5
10°	579.1	583.4	591.1	602.8	621.3	641.3	658.0	665.7	659.7	648.7
12.5°	524.7	528.9	544.2	569.6	600.6	635.3	667.2	687.9	689.4	678.5
15°	463.5	467.8	484.0	516.0	563.1	618.8	672.2	711.4	724.6	715.1
17.5°	425.6	429.3	441.6	467.3	516.5	585.8	670.5	736.4	766.6	759.1
20°	414.1	417.4	423.1	441.1	482.0	551.6	659.0	759.8	811.7	807.5
22.5°	426.3	429.3	431.1	439.1	464.8	529.2	644.5	783.8	864.2	864.7
25°	454.5	457.5	455.5	460.5	471.8	522.2	639.0	812.0	930.1	935.6
27.5°	501.0	501.2	496.5	496.2	498.0	532.7	644.8	842.2	1013.2	1023.4
30°	594.1	590.3	572.1	552.4	543.4	564.1	660.7	877.9	1111.3	1129.5
32.5°	737.6	732.1	698.7	651.5	604.1	614.8	689.4	918.6	1218.1	1251.1
35°	893.4	891.9	856.9	786.8	703.9	686.9	736.1	972.0	1334.7	1387.1
37.5°	1038.1	1037.4	1017.4	934.8	834.0	787.5	811.0	1041.9	1459.5	1535.4
40°	1170.4	1172.7	1152.7	1078.8	977.2	916.6	912.8	1128.3	1598.3	1696.9
42.5°	1284.8	1287.3	1267.0	1212.4	1118.8	1059.4	1037.9	1234.1	1733.8	1870.4
45°	1362.4	1377.9	1374.9	1331.2	1264.1	1202.4	1188.2	1366.9	1888.3	2054.3
47.5°	1384.4	1398.6	1421.1	1427.1	1386.1	1325.5	1342.4	1526.9	2044.6	2238.5
50°	1330.2	1343.4	1390.1	1452.3	1480.7	1462.0	1492.4	1698.4	2204.6	2422.3
52.5°	1223.4	1236.8	1295.8	1394.1	1510.2	1569.1	1643.0	1867.4	2359.6	2596.2
55°	1068.9	1083.1	1158.7	1270.0	1454.0	1613.3	1768.5	2036.1	2501.6	2752.8
57.5°	858.7	869.2	947.8	1103.5	1312.7	1569.3	1861.1	2220.3	2635.4	2906.5
60°	559.6	568.9	660.2	834.0	1078.6	1422.6	1879.6	2425.8	2813.2	3106.5
62.5°	372.2	378.4	432.6	560.1	759.6	1140.7	1771.5	2589.8	3073.8	3454.4
65°	255.4	261.6	315.8	404.6	490.7	754.6	1460.7	2568.0	3309.9	3730.7
67.5°	182.2	187.5	233.4	317.3	355.2	438.3	990.2	2290.5	3275.9	3741.2
70°	130.5	133.5	171.5	247.1	282.3	263.3	550.7	1751.8	2868.3	3454.7
72.5°	91.4	92.4	119.1	188.2	227.4	192.2	262.1	1167.9	2169.4	2711.6
75°	61.9	63.2	80.1	138.0	182.5	146.8	138.8	626.3	1273.5	1500.9
77.5°	37.9	38.4	51.7	94.4	136.5	111.8	89.4	265.3	492.7	483.8
80°	21.5	21.5	32.9	58.7	93.1	72.1	62.7	112.8	156.0	137.0
82.5°	12.0	12.2	24.0	36.4	61.7	42.7	34.4	52.2	67.4	59.7
85°	5.0	5.5	14.7	17.2	29.5	21.2	14.0	22.0	25.0	22.2
87.5°	0.5	0.7	4.5	3.2	3.5	4.2	2.0	4.2	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938754  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
574.4	0°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4
582.9	2.5°	578.1	574.4	564.9	553.9	539.4	532.4	522.9	516.5	511.0	511.5
597.3	5°	589.3	579.9	558.6	532.2	499.2	475.8	450.8	433.6	419.6	416.6
617.3	7.5°	604.8	589.8	552.6	505.0	449.3	407.1	369.4	345.2	328.0	322.5
641.5	10°	624.8	603.1	544.9	470.8	390.6	337.0	296.5	277.6	265.8	261.8
670.0	12.5°	648.0	618.3	534.7	429.1	330.2	278.6	252.9	243.4	239.6	238.4
704.9	15°	677.2	637.3	519.2	379.7	279.1	242.9	231.9	230.6	231.1	230.6
746.8	17.5°	711.9	658.0	494.0	328.7	244.6	224.7	220.7	221.7	222.9	222.7
793.8	20°	749.8	678.5	461.8	283.6	221.2	211.7	209.4	210.4	211.4	210.9
847.9	22.5°	793.0	700.4	426.1	248.4	205.4	199.7	197.2	197.4	197.4	196.4
916.6	25°	844.7	724.6	388.7	223.4	193.5	189.0	186.0	185.0	183.5	180.5
1000.0	27.5°	906.4	750.3	352.7	205.9	184.0	179.7	176.2	173.7	170.0	165.0
1100.1	30°	975.7	781.5	322.3	194.9	176.5	172.2	168.2	164.5	159.0	152.8
1215.1	32.5°	1057.4	815.0	300.0	187.7	169.7	165.2	160.5	156.0	150.0	143.8
1344.4	35°	1154.7	855.4	287.1	182.7	164.5	158.5	153.3	148.3	143.8	138.3
1485.0	37.5°	1260.3	898.4	283.1	180.2	161.0	151.8	145.8	142.3	141.8	138.5
1637.0	40°	1375.9	949.3	286.1	178.7	157.3	145.3	138.8	138.0	139.3	133.5
1799.5	42.5°	1498.2	1009.7	291.1	177.0	152.0	138.8	132.5	132.5	131.5	123.6
1971.2	45°	1630.5	1079.3	296.0	172.7	145.8	132.3	127.6	125.8	121.6	113.8
2143.9	47.5°	1763.8	1150.2	299.8	165.0	138.3	126.8	122.6	118.6	112.3	105.3
2313.4	50°	1890.3	1213.9	295.8	153.5	129.8	121.6	117.1	111.6	104.8	100.1
2473.9	52.5°	2003.4	1269.0	278.8	140.0	120.8	116.1	112.1	106.3	100.8	95.9
2618.7	55°	2101.8	1313.7	248.9	127.3	112.8	111.3	107.3	100.1	92.6	88.4
2762.2	57.5°	2196.1	1347.7	211.4	116.8	105.6	106.1	100.1	93.6	86.6	82.1
2955.7	60°	2321.7	1393.1	173.5	107.1	97.8	99.3	92.9	88.1	79.4	73.6
3287.4	62.5°	2522.4	1463.7	137.8	95.1	88.9	89.4	86.6	80.9	70.4	63.7
3533.3	65°	2681.6	1437.8	108.6	82.1	78.6	79.4	79.4	73.1	61.9	54.2
3546.5	67.5°	2663.6	1231.1	86.6	69.4	68.9	69.4	71.1	65.9	54.9	48.7
3276.4	70°	2453.7	979.2	69.4	57.7	59.9	58.7	63.7	60.2	49.4	43.2
2540.1	72.5°	2002.2	705.4	52.9	47.7	45.9	47.9	57.4	54.2	41.2	34.2
1345.4	75°	1169.9	376.4	39.4	37.7	33.2	39.9	50.9	46.2	31.5	25.2
412.4	77.5°	380.9	131.3	29.0	27.7	24.7	32.2	43.4	38.9	25.7	20.0
120.8	80°	102.1	39.7	19.7	18.2	16.0	24.0	34.4	31.0	18.5	13.0
51.9	82.5°	40.9	16.7	11.5	10.2	8.7	16.5	27.2	25.0	13.7	8.2
16.2	85°	13.2	5.5	4.2	3.2	4.0	10.2	16.2	17.0	9.7	4.2
2.5	87.5°	1.7	0.7	0.7	1.0	0.7	1.7	5.0	4.7	2.7	0.5
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>
574.4
506.5
409.9
317.0
258.9
237.6
230.4
222.2
210.7
195.9
180.0
164.5
152.3
144.0
137.8
138.3
133.8
123.6
113.6
105.1
99.3
95.4
87.9
81.6
72.9
63.2
53.4
47.7
42.4
33.4
24.5
19.2
12.7
8.2
3.2
0.0
0.0

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