

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: P938916

Luminaire Tested: **GALN-SB1B-735-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

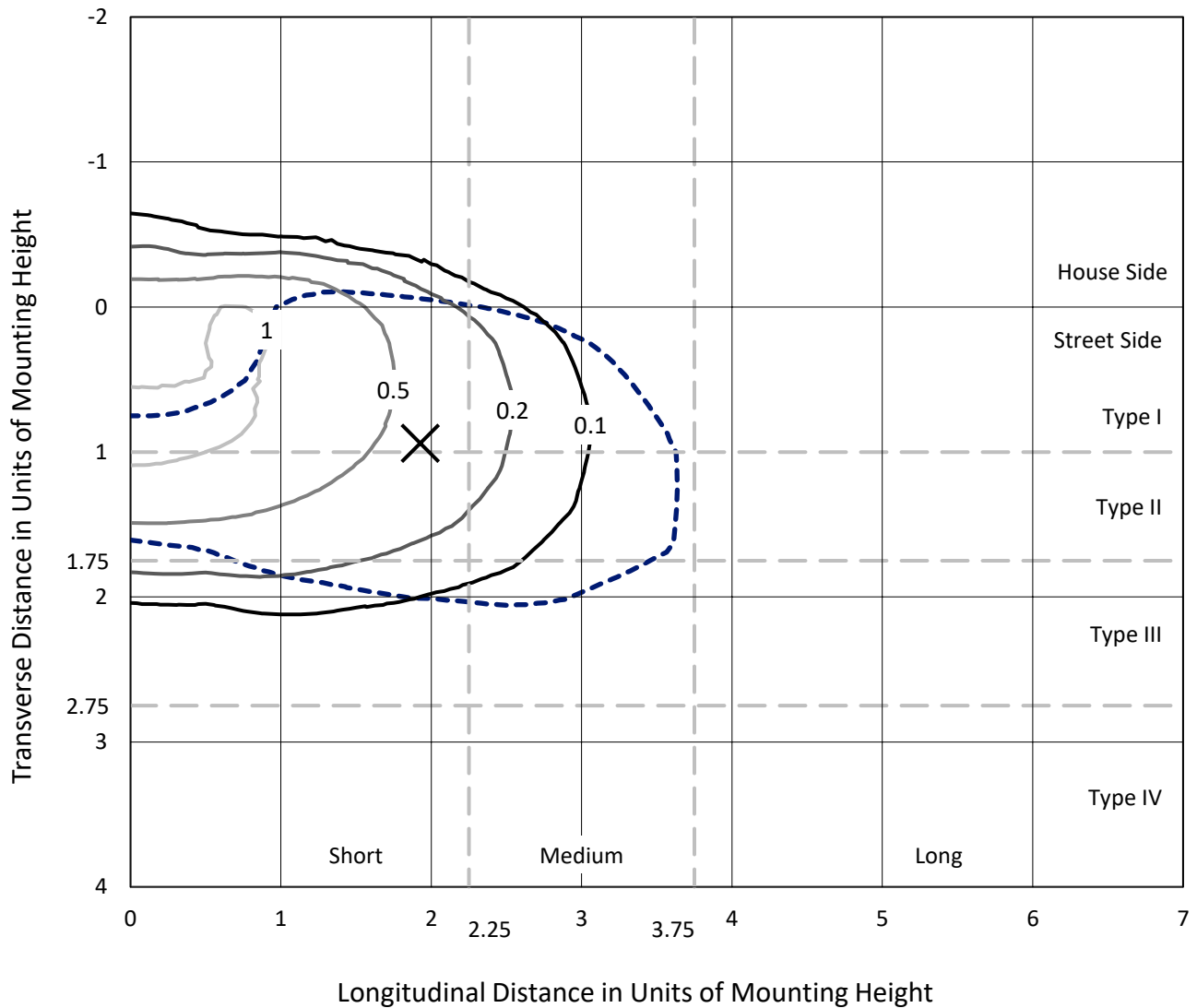
Lumens per Lamp: N/A  
Luminaire Lumens: 4418 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

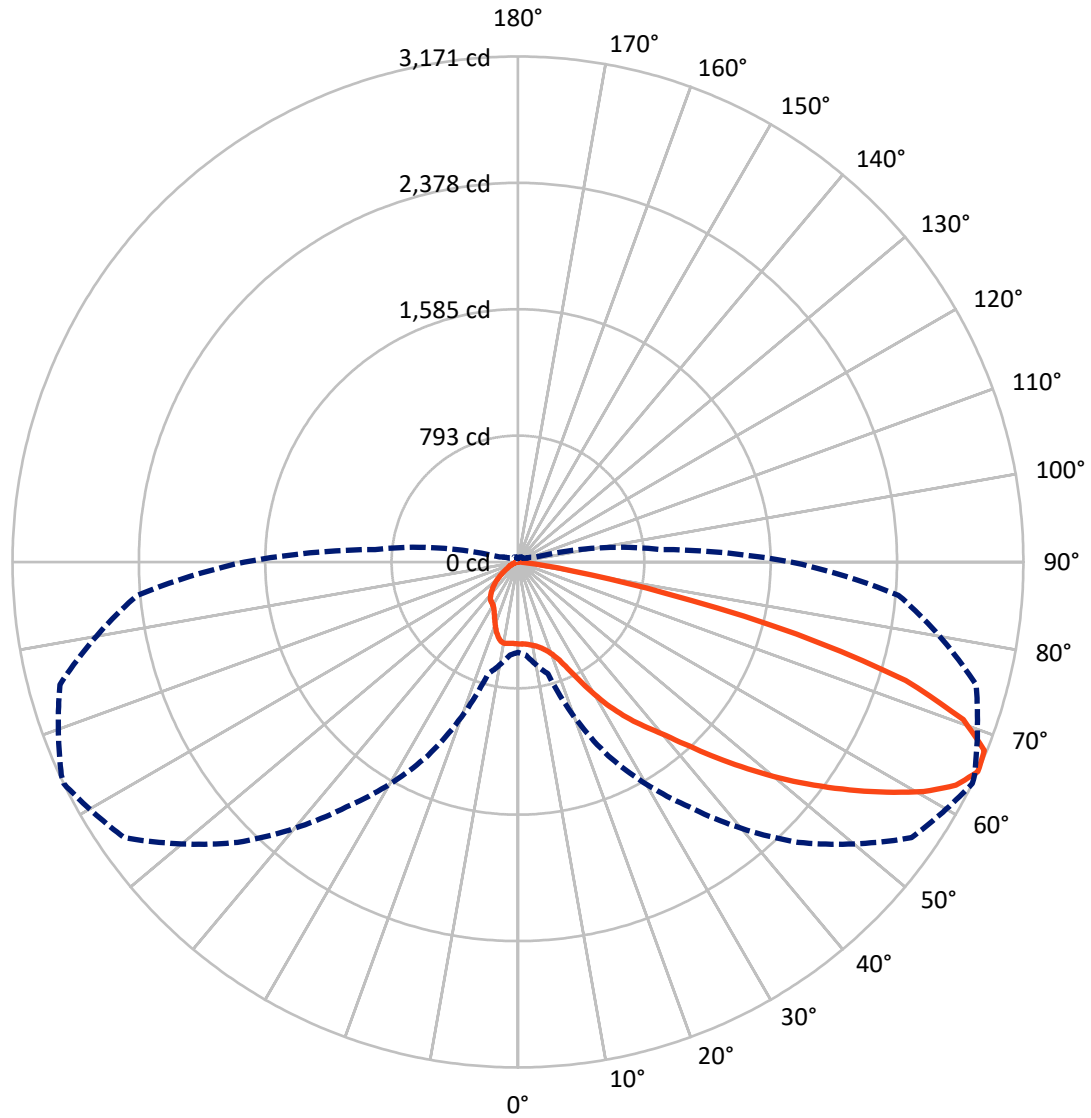
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	590.8	0.0	590.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	3827.2	0.0	3827.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	4418.0	0.0	4418.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	1.1
10°-20°	128.6	2.9
20°-30°	243.7	5.5
30°-40°	493.1	11.2
40°-50°	839.9	19.0
50°-60°	1142.2	25.9
60°-70°	1072.6	24.3
70°-80°	429.7	9.7
80°-90°	20.8	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°	4418.0	100.0
0°-180°	4418.0	100.0

**Coefficient of Utilization**



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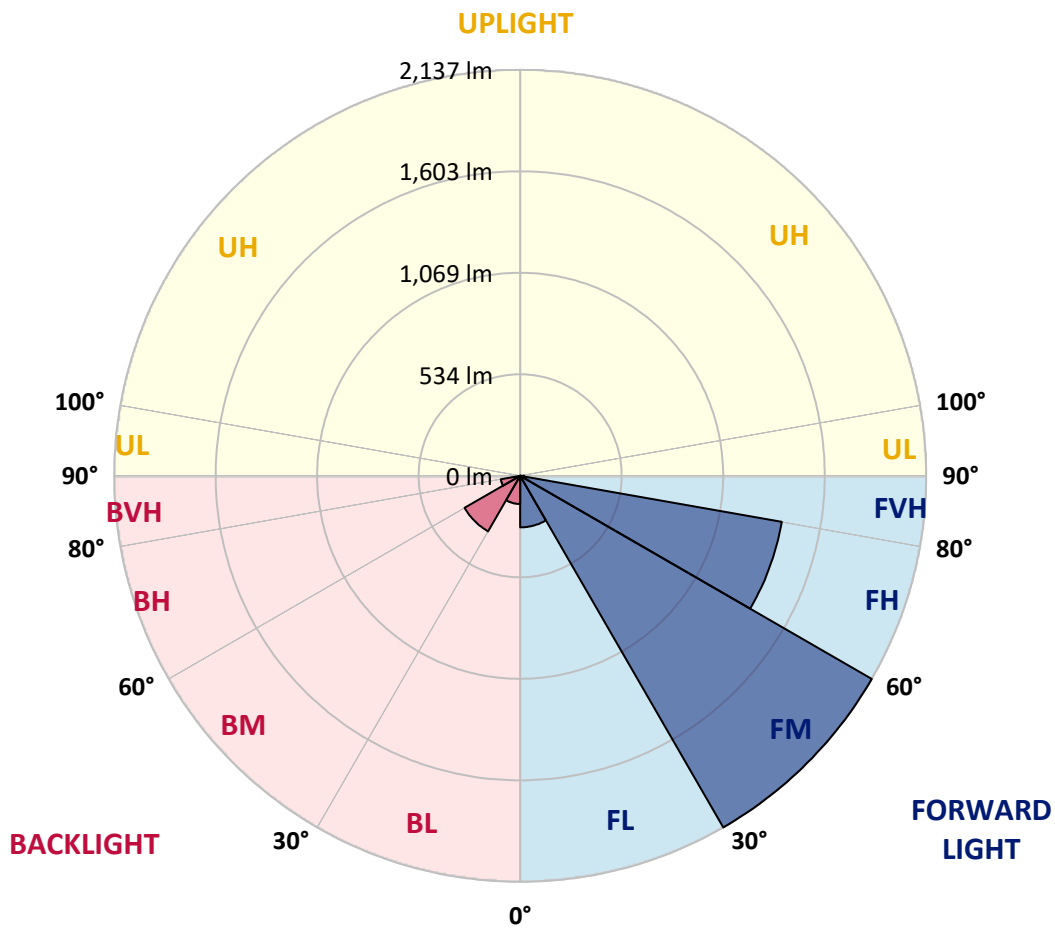
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.3	6.1			
FM (30°-60°)	2137.4	48.4			
FH (60°-80°)	1398.6	31.7			G1/1800
FVH (80°-90°)	19.8	0.4			G1/100
BL (0°-30°)	148.3	3.4	B1/500		
BM (30°-60°)	337.8	7.6	B1/1000		
BH (60°-80°)	103.7	2.3	B0/110		G0/110
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-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9
2.5°	512.1	515.6	514.7	513.9	513.6	514.2	514.5	514.2	514.2	514.2
5°	502.3	505.3	505.3	507.3	510.3	513.9	516.5	517.1	517.7	518.6
7.5°	483.6	486.0	487.8	494.6	502.0	511.5	519.5	523.6	524.2	527.5
10°	470.9	473.9	476.8	483.9	494.6	508.8	522.4	532.5	534.0	541.7
12.5°	470.3	473.3	477.1	484.8	497.3	512.4	529.0	543.5	546.1	557.4
15°	476.5	480.1	483.6	493.1	506.5	524.8	542.6	560.7	563.3	579.3
17.5°	489.3	494.0	496.7	506.2	520.4	540.8	564.2	584.9	587.3	606.0
20°	514.5	520.1	521.0	528.7	542.6	564.5	592.3	618.1	621.1	642.4
22.5°	566.6	574.6	567.5	571.3	583.8	605.7	635.9	668.5	672.6	696.9
25°	658.4	669.6	651.3	644.8	650.1	672.9	710.8	752.0	756.7	776.3
27.5°	838.8	824.2	796.4	769.2	753.2	766.2	808.8	859.8	865.7	884.7
30°	1036.9	1024.2	986.6	926.1	888.2	886.1	925.5	982.4	989.2	1007.3
32.5°	1235.3	1223.2	1182.3	1108.0	1042.2	1009.7	1036.9	1100.0	1103.5	1115.1
35°	1430.5	1418.1	1377.2	1301.1	1220.2	1146.2	1140.9	1211.9	1213.1	1225.3
37.5°	1626.9	1616.5	1573.0	1498.3	1418.7	1316.5	1267.0	1318.0	1319.4	1331.3
40°	1767.0	1771.4	1741.5	1683.7	1615.3	1503.7	1408.6	1430.8	1421.9	1441.8
42.5°	1887.2	1896.1	1870.0	1841.0	1801.3	1703.0	1583.9	1580.1	1565.9	1576.5
45°	1991.2	1998.6	1975.2	1968.4	1967.5	1898.5	1775.6	1752.5	1732.6	1730.5
47.5°	2029.4	2043.6	2053.7	2076.5	2120.9	2091.9	1973.7	1937.9	1915.6	1899.4
50°	2043.9	2059.0	2093.3	2159.7	2264.8	2277.3	2170.9	2130.7	2103.4	2073.8
52.5°	2024.3	2051.3	2097.5	2209.2	2361.7	2425.9	2360.2	2325.0	2293.9	2245.6
55°	1909.1	1936.1	2030.6	2208.6	2410.0	2530.2	2539.1	2523.4	2488.4	2412.3
57.5°	1666.3	1706.2	1855.8	2133.3	2409.1	2619.9	2714.4	2725.7	2686.6	2577.6
60°	1329.8	1384.0	1566.5	1966.6	2334.7	2668.5	2868.1	2924.4	2882.9	2740.5
62.5°	927.9	990.7	1163.4	1705.4	2164.7	2633.6	2980.4	3084.3	3052.9	2886.2
65°	566.0	586.1	725.3	1342.0	1875.7	2487.3	3015.0	3170.8	3160.5	2975.3
67.5°	377.0	393.9	433.9	920.2	1456.0	2194.9	2932.1	3155.7	3158.7	2960.8
70°	227.2	241.7	267.7	535.2	943.6	1737.3	2675.3	2963.2	2980.4	2766.8
72.5°	93.6	103.4	127.1	242.6	488.7	1102.7	2130.4	2544.1	2584.1	2326.4
75°	53.0	58.0	74.6	121.7	212.1	513.9	1290.4	1806.1	1865.0	1603.5
77.5°	35.2	37.6	48.3	78.8	119.4	175.3	551.5	940.9	1053.5	875.8
80°	23.7	25.8	33.2	52.7	77.6	75.2	175.6	348.6	428.9	300.9
82.5°	16.0	16.3	23.7	34.7	49.2	36.4	51.8	108.4	136.2	87.1
85°	9.2	8.9	17.5	20.1	21.9	15.1	15.7	32.6	42.6	36.7
87.5°	1.2	1.8	6.8	5.3	3.0	3.3	3.3	5.6	8.3	8.9
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°
513.9	0°	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9
514.5	2.5°	514.5	514.2	513.3	512.4	510.3	509.1	509.7	509.1	508.8	509.1
518.3	5°	518.3	517.4	515.0	512.1	507.9	502.9	499.6	494.9	490.5	487.8
528.7	7.5°	528.7	527.8	524.5	516.2	502.9	481.9	462.6	445.7	433.0	425.6
545.3	10°	545.3	543.8	538.7	520.4	485.4	439.5	401.3	369.6	348.9	339.1
564.8	12.5°	564.8	563.0	554.1	516.5	452.3	380.6	327.9	292.6	273.4	264.8
587.3	15°	587.9	585.5	568.1	498.2	404.0	315.4	267.1	240.8	228.3	220.6
616.0	17.5°	616.6	612.5	578.4	470.6	351.6	265.7	229.8	210.0	199.0	191.6
653.7	20°	653.9	647.1	586.7	437.7	303.3	234.3	204.7	188.1	179.8	173.3
707.0	22.5°	706.1	696.3	596.8	402.2	269.2	212.7	186.0	173.9	167.0	159.6
781.3	25°	770.6	759.1	609.2	369.3	245.8	194.0	172.4	162.3	154.3	145.7
878.7	27.5°	861.0	840.2	624.0	342.4	225.7	178.0	159.9	148.7	139.5	132.4
989.2	30°	961.7	927.6	637.1	326.1	207.3	163.2	143.6	132.4	123.8	118.8
1088.4	32.5°	1057.0	1010.8	645.7	319.0	190.7	146.3	125.9	113.7	107.2	105.7
1185.6	35°	1147.1	1086.1	644.8	312.2	175.9	129.4	108.4	96.0	90.9	91.8
1290.1	37.5°	1250.7	1166.3	638.5	301.5	163.8	114.0	93.3	82.3	77.9	78.2
1417.2	40°	1371.3	1259.0	634.7	281.4	150.5	99.8	80.9	72.0	68.7	67.5
1551.1	42.5°	1499.8	1348.8	635.3	258.6	133.9	87.1	72.3	64.9	61.9	61.0
1700.0	45°	1628.9	1434.4	636.2	234.9	116.4	77.3	66.0	59.8	58.0	56.9
1851.1	47.5°	1750.4	1507.2	619.6	209.4	99.2	69.9	61.0	56.9	55.4	53.9
2002.7	50°	1863.5	1555.8	579.6	179.8	85.6	64.0	57.2	54.2	52.7	51.2
2140.1	52.5°	1951.5	1563.5	513.6	149.3	76.1	59.5	54.8	52.1	50.3	48.9
2251.2	55°	1990.6	1515.2	419.7	120.8	68.7	55.7	52.4	49.8	47.7	46.2
2338.6	57.5°	1980.5	1413.6	327.3	97.1	61.6	51.8	49.5	47.7	45.3	42.9
2409.4	60°	1931.0	1277.7	246.7	80.9	55.1	47.7	46.2	44.7	41.5	37.9
2436.6	62.5°	1845.5	1106.8	175.9	66.9	48.0	42.9	42.4	41.2	36.4	29.9
2396.3	65°	1714.5	899.2	118.5	55.7	41.2	37.6	37.9	35.8	29.6	22.2
2248.8	67.5°	1523.2	657.5	75.8	45.6	34.4	31.4	31.7	30.5	25.2	19.0
1969.3	70°	1279.5	435.4	49.5	34.7	27.5	24.3	26.1	26.4	21.3	15.4
1511.4	72.5°	938.0	257.1	34.7	25.8	20.1	16.9	21.3	21.9	17.2	11.6
909.2	75°	534.6	122.0	26.1	18.7	12.4	11.8	16.6	16.6	11.8	7.7
393.6	77.5°	224.5	50.9	18.4	12.1	7.1	6.8	11.3	10.4	5.9	3.6
96.0	80°	64.9	22.8	9.8	5.9	3.0	2.7	4.4	3.3	1.5	0.6
36.4	82.5°	25.5	10.1	3.9	2.4	1.2	1.2	0.6	0.0	0.0	0.0
20.7	85°	15.1	4.1	1.8	0.9	0.3	0.0	0.0	0.0	0.0	0.0
4.4	87.5°	3.9	0.9	0.6	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>
513.9
510.3
488.4
425.9
338.2
263.9
220.9
191.0
172.1
158.5
144.8
130.9
117.9
106.6
91.8
79.4
67.2
60.7
56.9
53.9
51.2
48.6
45.9
42.6
37.3
29.3
21.6
18.1
14.8
11.0
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