

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: P938926

Luminaire Tested: **GALN-SB1B-740-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938926  
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-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

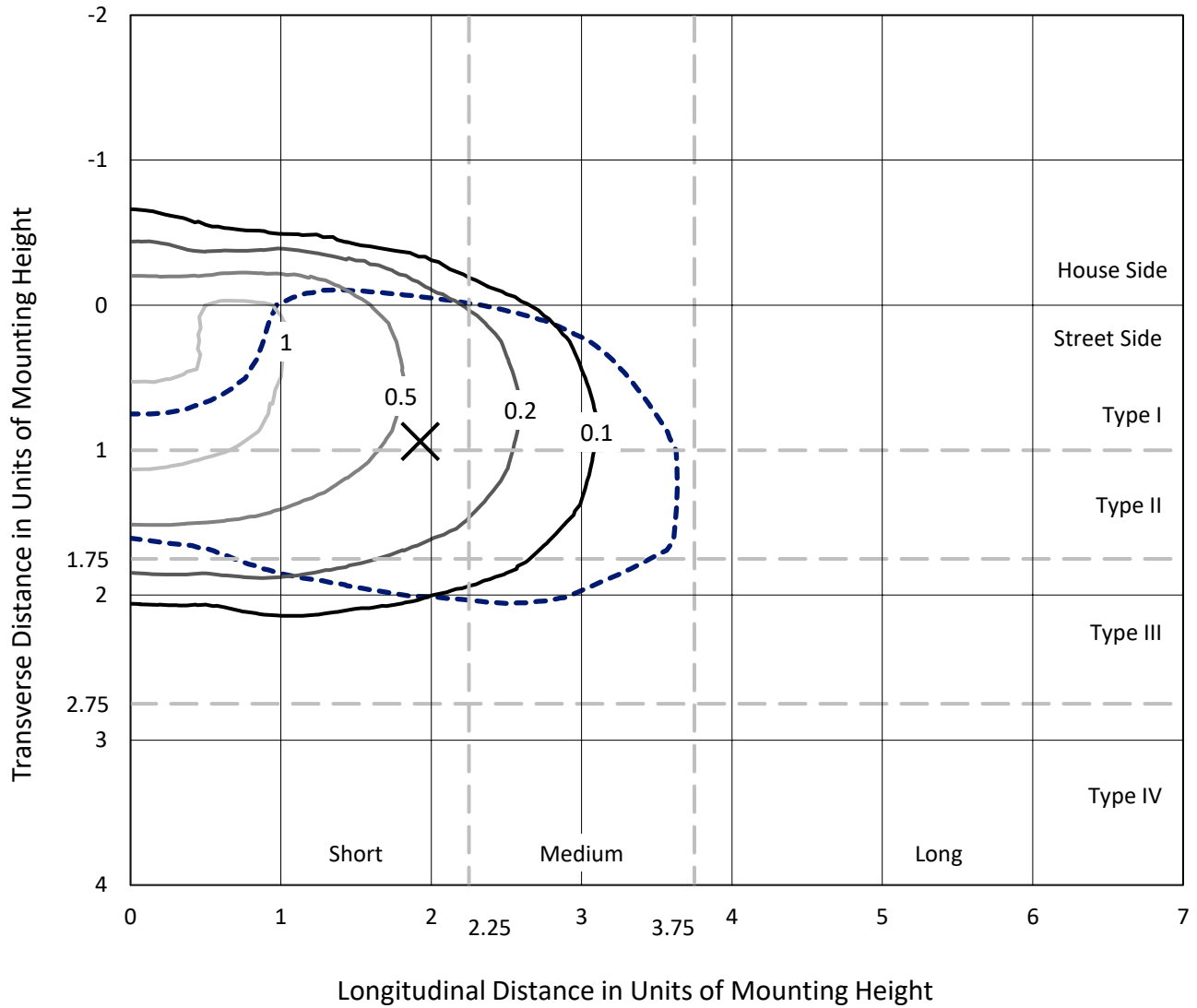
Lumens per Lamp: N/A  
Luminaire Lumens: 4674 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

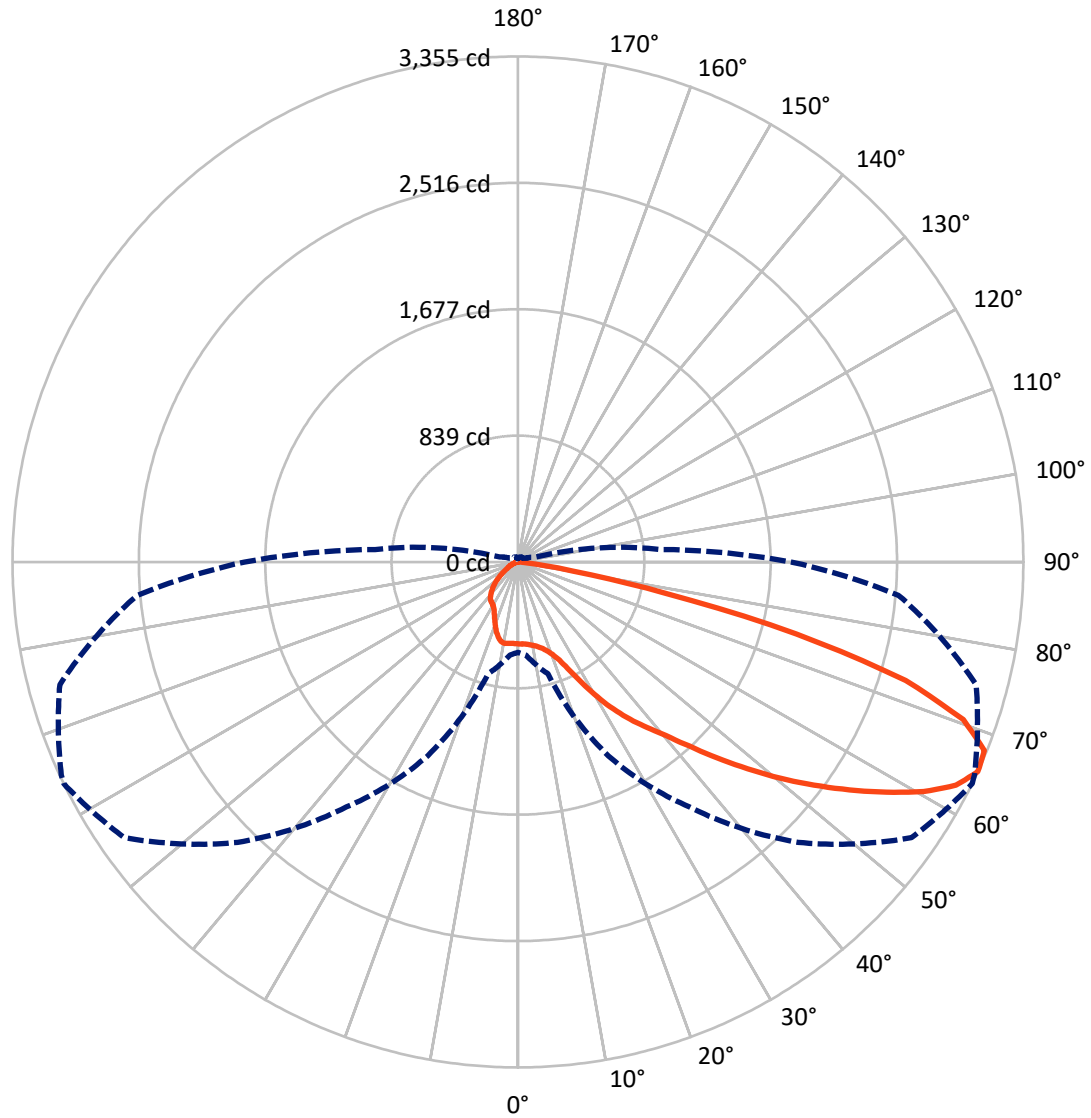
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	625.0	0.0	625.0
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	4048.9	0.0	4048.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	4674.0	0.0	4674.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.2	1.1
10°-20°	136.0	2.9
20°-30°	257.8	5.5
30°-40°	521.6	11.2
40°-50°	888.6	19.0
50°-60°	1208.4	25.9
60°-70°	1134.8	24.3
70°-80°	454.6	9.7
80°-90°	22.0	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°	4674.0	100.0
0°-180°	4674.0	100.0

**Coefficient of Utilization**



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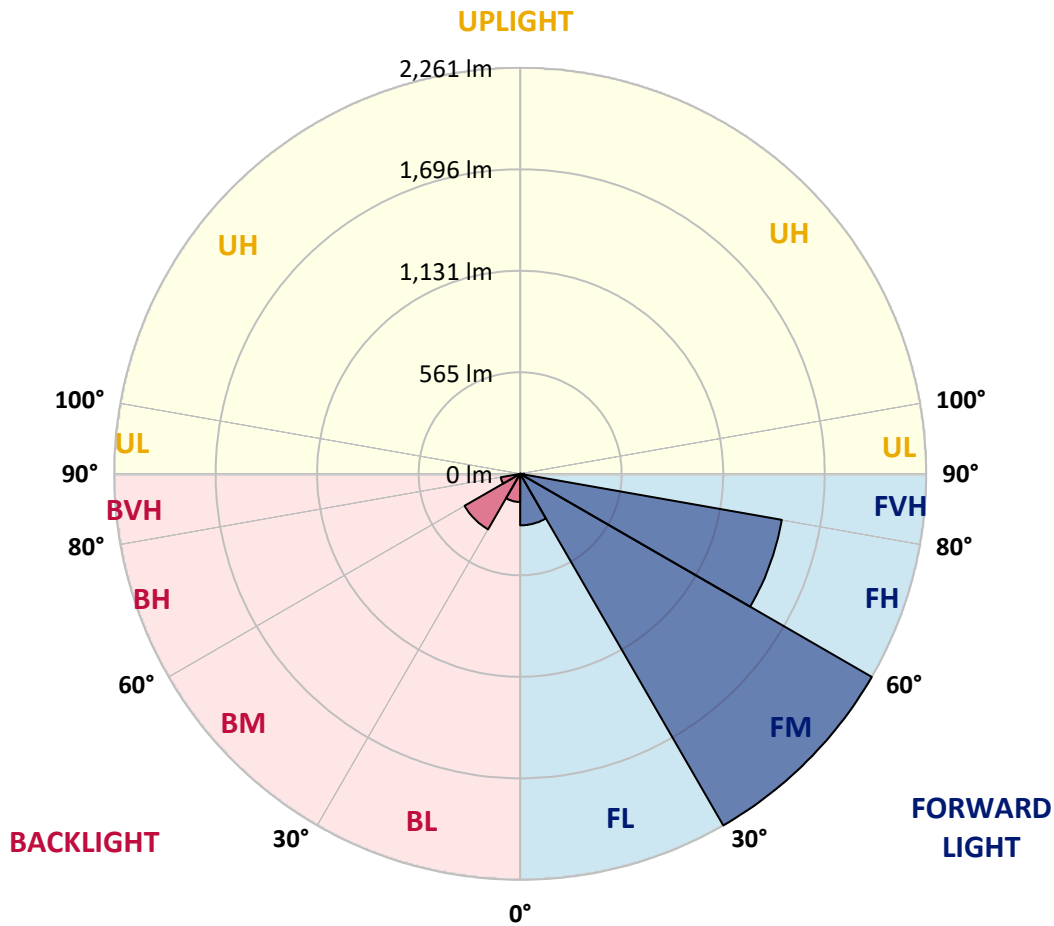
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.0	6.1			
FM (30°-60°)	2261.3	48.4			
FH (60°-80°)	1479.7	31.7			G1/1800
FVH (80°-90°)	20.9	0.4			G1/100
BL (0°-30°)	156.9	3.4	B1/500		
BM (30°-60°)	357.3	7.6	B1/1000		
BH (60°-80°)	109.7	2.3	B0/110		G0/110
BVH (80°-90°)	1.1	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°	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6
2.5°	541.8	545.5	544.6	543.6	543.3	543.9	544.3	543.9	543.9	543.9
5°	531.4	534.5	534.5	536.7	539.9	543.6	546.5	547.1	547.7	548.6
7.5°	511.7	514.2	516.1	523.3	531.1	541.1	549.6	554.0	554.6	558.0
10°	498.2	501.3	504.5	512.0	523.3	538.3	552.7	563.4	564.9	573.1
12.5°	497.6	500.7	504.8	512.9	526.1	542.1	559.6	575.0	577.8	589.7
15°	504.2	507.9	511.7	521.7	535.8	555.2	574.0	593.1	596.0	612.9
17.5°	517.6	522.6	525.5	535.5	550.5	572.1	596.9	618.8	621.3	641.1
20°	544.3	550.2	551.2	559.3	574.0	597.2	626.7	653.9	657.1	679.6
22.5°	599.4	607.9	600.3	604.4	617.6	640.8	672.7	707.2	711.6	737.3
25°	696.5	708.4	689.0	682.1	687.8	711.9	752.0	795.6	800.6	821.2
27.5°	887.4	872.0	842.6	813.7	796.8	810.6	855.7	909.6	915.9	935.9
30°	1097.0	1083.5	1043.7	979.8	939.7	937.5	979.2	1039.3	1046.5	1065.6
32.5°	1306.9	1294.1	1250.8	1172.2	1102.6	1068.2	1097.0	1163.7	1167.5	1179.7
35°	1513.4	1500.2	1457.0	1376.5	1290.9	1212.6	1207.0	1282.2	1283.4	1296.3
37.5°	1721.1	1710.2	1664.1	1585.2	1500.9	1392.8	1340.4	1394.3	1395.9	1408.4
40°	1869.4	1874.1	1842.4	1781.3	1708.9	1590.8	1490.2	1513.7	1504.3	1525.3
42.5°	1996.6	2006.0	1978.4	1947.7	1905.7	1801.7	1675.7	1671.6	1656.6	1667.9
45°	2106.5	2114.4	2089.6	2082.4	2081.5	2008.5	1878.4	1854.0	1833.0	1830.8
47.5°	2147.0	2162.0	2172.7	2196.8	2243.8	2213.1	2088.1	2050.1	2026.6	2009.4
50°	2162.3	2178.3	2214.6	2284.8	2396.1	2409.2	2296.7	2254.1	2225.3	2194.0
52.5°	2141.6	2170.2	2219.0	2337.2	2498.5	2566.5	2497.0	2459.7	2426.8	2375.7
55°	2019.8	2048.3	2148.2	2336.5	2549.6	2676.8	2686.2	2669.6	2632.6	2552.1
57.5°	1762.8	1805.1	1963.4	2256.9	2548.7	2771.8	2871.7	2883.6	2842.3	2726.9
60°	1406.9	1464.2	1657.2	2080.5	2470.0	2823.1	3034.3	3093.9	3050.0	2899.3
62.5°	981.7	1048.1	1230.8	1804.2	2290.2	2786.2	3153.1	3263.1	3229.8	3053.4
65°	598.8	620.1	767.4	1419.7	1984.3	2631.4	3189.7	3354.6	3343.6	3147.8
67.5°	398.9	416.7	459.0	973.5	1540.4	2322.1	3102.0	3338.6	3341.7	3132.4
70°	240.3	255.7	283.3	566.2	998.3	1838.0	2830.3	3134.9	3153.1	2927.2
72.5°	99.0	109.4	134.4	256.6	517.0	1166.5	2253.8	2691.5	2733.8	2461.2
75°	56.1	61.4	79.0	128.8	224.3	543.6	1365.2	1910.7	1973.1	1696.4
77.5°	37.3	39.8	51.1	83.3	126.3	185.5	583.4	995.5	1114.5	926.5
80°	25.1	27.3	35.1	55.8	82.1	79.6	185.8	368.8	453.7	318.3
82.5°	16.9	17.2	25.1	36.7	52.0	38.5	54.8	114.7	144.1	92.1
85°	9.7	9.4	18.5	21.3	23.2	16.0	16.6	34.5	45.1	38.9
87.5°	1.3	1.9	7.2	5.6	3.1	3.4	3.4	6.0	8.8	9.4
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°
543.6	0°	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6
544.3	2.5°	544.3	543.9	543.0	542.1	539.9	538.6	539.2	538.6	538.3	538.6
548.3	5°	548.3	547.4	544.9	541.8	537.4	532.0	528.6	523.6	518.9	516.1
559.3	7.5°	559.3	558.4	554.9	546.1	532.0	509.8	489.4	471.6	458.1	450.3
576.8	10°	576.8	575.3	570.0	550.5	513.6	465.0	424.6	391.0	369.1	358.8
597.5	12.5°	597.5	595.6	586.2	546.5	478.5	402.6	346.9	309.6	289.2	280.1
621.3	15°	622.0	619.5	601.0	527.0	427.4	333.7	282.6	254.7	241.6	233.4
651.7	17.5°	652.4	648.0	611.9	497.9	371.9	281.1	243.1	222.2	210.6	202.7
691.5	20°	691.8	684.6	620.7	463.1	320.9	247.8	216.5	199.0	190.2	183.3
747.9	22.5°	747.0	736.6	631.4	425.5	284.8	225.0	196.8	183.9	176.7	168.9
826.6	25°	815.3	803.1	644.5	390.7	260.1	205.2	182.4	171.7	163.2	154.2
929.7	27.5°	910.9	888.9	660.2	362.2	238.8	188.3	169.2	157.3	147.6	140.1
1046.5	30°	1017.4	981.4	674.0	345.0	219.3	172.6	152.0	140.1	131.0	125.6
1151.5	32.5°	1118.3	1069.4	683.1	337.5	201.8	154.8	133.2	120.3	113.4	111.9
1254.3	35°	1213.5	1149.0	682.1	330.3	186.1	136.9	114.7	101.5	96.2	97.1
1364.9	37.5°	1323.2	1233.9	675.5	319.0	173.3	120.6	98.7	87.1	82.4	82.7
1499.3	40°	1450.7	1332.0	671.5	297.7	159.2	105.6	85.5	76.1	72.7	71.4
1640.9	42.5°	1586.7	1426.9	672.1	273.5	141.6	92.1	76.5	68.6	65.5	64.5
1798.5	45°	1723.3	1517.5	673.0	248.5	123.1	81.8	69.9	63.3	61.4	60.2
1958.3	47.5°	1851.8	1594.6	655.5	221.5	105.0	73.9	64.5	60.2	58.6	57.0
2118.8	50°	1971.5	1645.9	613.2	190.2	90.6	67.7	60.5	57.3	55.8	54.2
2264.2	52.5°	2064.6	1654.1	543.3	157.9	80.5	63.0	58.0	55.1	53.3	51.7
2381.7	55°	2105.9	1603.0	444.0	127.8	72.7	58.9	55.5	52.6	50.4	48.9
2474.1	57.5°	2095.3	1495.5	346.2	102.8	65.2	54.8	52.3	50.4	47.9	45.4
2549.0	60°	2042.9	1351.7	261.0	85.5	58.3	50.4	48.9	47.3	43.9	40.1
2577.8	62.5°	1952.4	1170.9	186.1	70.8	50.8	45.4	44.8	43.6	38.5	31.6
2535.2	65°	1813.9	951.3	125.3	58.9	43.6	39.8	40.1	37.9	31.3	23.5
2379.1	67.5°	1611.5	695.6	80.2	48.3	36.3	33.2	33.5	32.3	26.6	20.1
2083.4	70°	1353.6	460.6	52.3	36.7	29.1	25.7	27.6	27.9	22.6	16.3
1598.9	72.5°	992.3	272.0	36.7	27.3	21.3	17.9	22.6	23.2	18.2	12.2
961.9	75°	565.6	129.1	27.6	19.7	13.2	12.5	17.5	17.5	12.5	8.1
416.4	77.5°	237.5	53.9	19.4	12.8	7.5	7.2	11.9	11.0	6.3	3.8
101.5	80°	68.6	24.1	10.3	6.3	3.1	2.8	4.7	3.4	1.6	0.6
38.5	82.5°	26.9	10.7	4.1	2.5	1.3	1.3	0.6	0.0	0.0	0.0
21.9	85°	16.0	4.4	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	4.1	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>
543.6
539.9
516.7
450.6
357.8
279.2
233.7
202.1
182.0
167.6
153.2
138.5
124.7
112.8
97.1
84.0
71.1
64.2
60.2
57.0
54.2
51.4
48.6
45.1
39.5
31.0
22.9
19.1
15.7
11.6
7.5
3.8
0.6
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