

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: P938921

Luminaire Tested: **GALN-SB1B-740-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
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-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

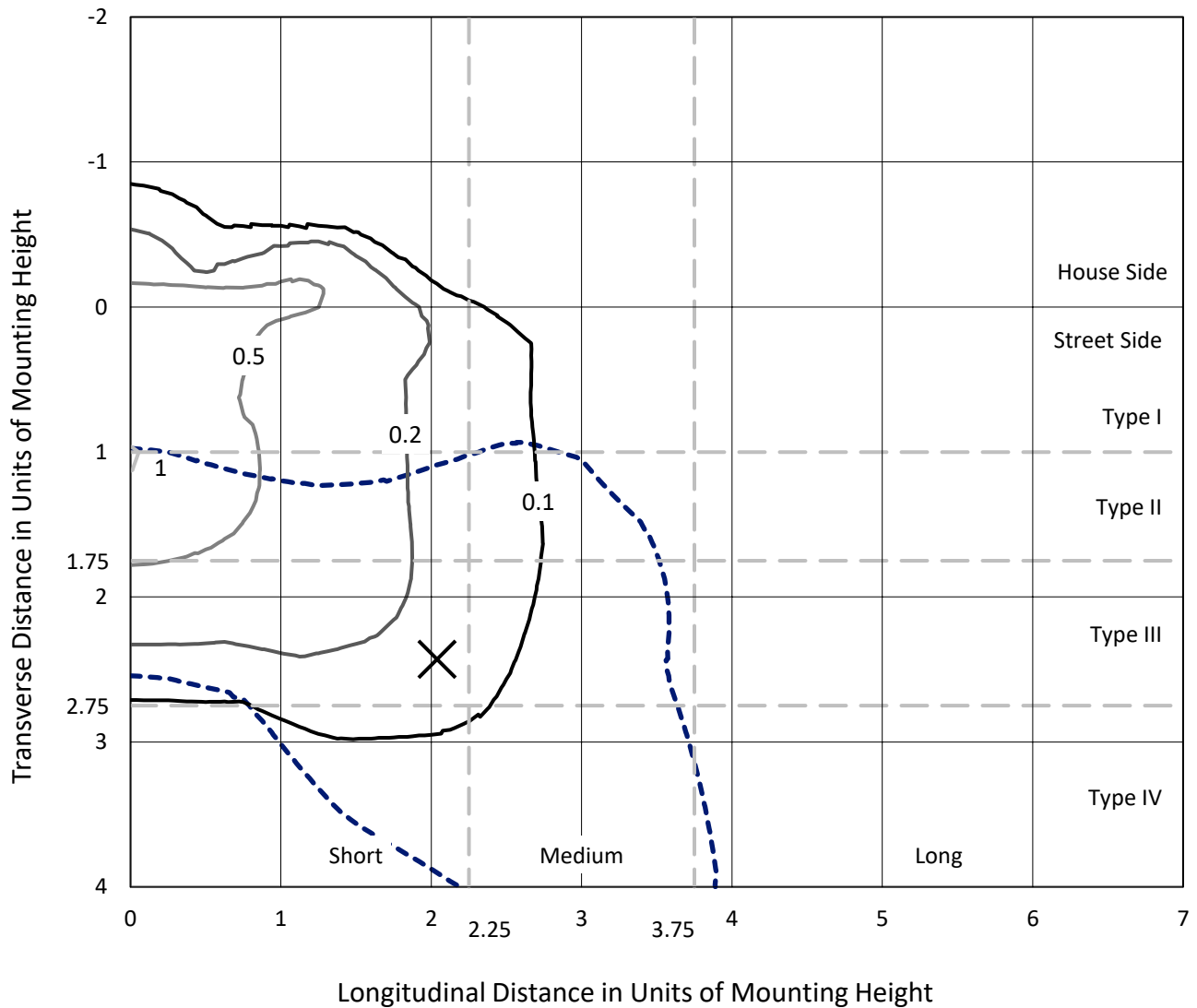
Lumens per Lamp: N/A  
Luminaire Lumens: 4160 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

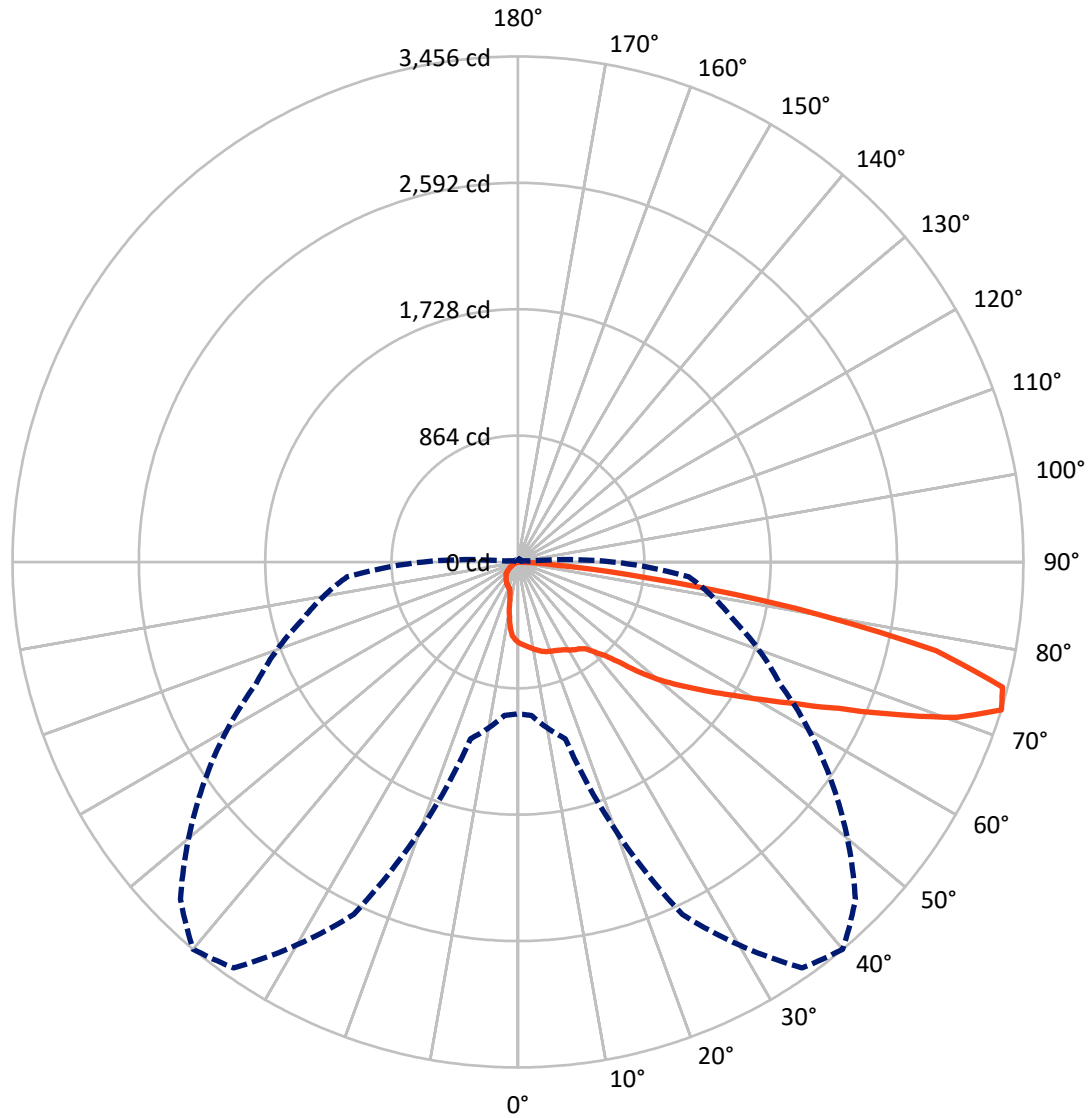
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	537.2	0.0	537.2
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	3622.8	0.0	3622.8
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	4160.0	0.0	4160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.3	1.2
10°-20°	136.6	3.3
20°-30°	221.0	5.3
30°-40°	326.3	7.8
40°-50°	549.2	13.2
50°-60°	852.8	20.5
60°-70°	1067.1	25.7
70°-80°	873.7	21.0
80°-90°	82.8	2.0
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°	4160.0	100.0
0°-180°	4160.0	100.0

**Coefficient of Utilization**



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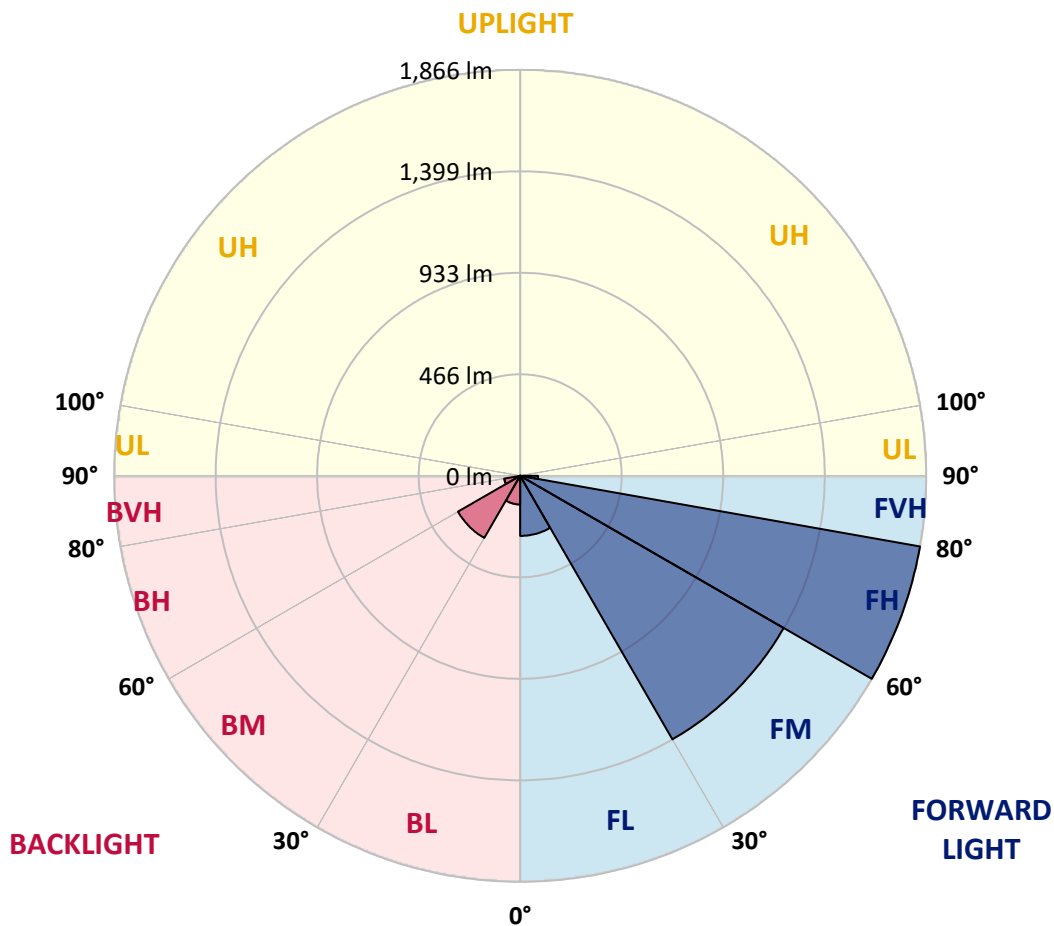
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.1	6.6			
FM (30°-60°)	1398.5	33.6			
FH (60°-80°)	1865.9	44.9			G2/5000
FVH (80°-90°)	82.2	2.0			G1/100
BL (0°-30°)	131.9	3.2	B1/500		
BM (30°-60°)	329.9	7.9	B1/1000		
BH (60°-80°)	74.8	1.8	B0/110		G0/110
BVH (80°-90°)	0.6	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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8
2.5°	567.4	569.6	568.4	565.9	565.2	564.0	562.4	561.8	559.6	557.7
5°	583.4	585.6	584.0	580.6	579.0	577.4	575.3	573.4	569.0	564.9
7.5°	600.9	602.8	600.9	595.9	593.4	591.5	588.4	585.6	580.6	574.6
10°	620.4	621.9	619.1	612.5	608.5	605.6	602.8	599.7	595.0	588.4
12.5°	638.5	640.4	636.0	628.2	623.5	620.7	617.6	615.0	610.3	604.1
15°	655.2	658.0	650.5	642.0	636.7	634.5	631.3	629.8	626.6	622.3
17.5°	667.7	669.6	661.7	651.7	645.8	644.2	642.0	642.9	642.3	640.1
20°	678.3	679.6	669.3	657.0	650.5	650.8	650.1	653.3	654.5	654.5
22.5°	691.5	691.8	678.7	663.3	655.5	657.7	658.6	662.0	664.6	667.1
25°	708.7	708.1	692.4	671.4	664.6	667.7	669.9	671.1	674.0	678.0
27.5°	734.4	732.5	712.5	684.6	676.5	679.3	683.4	682.7	681.5	684.6
30°	767.0	764.5	737.9	703.1	695.6	698.1	699.3	693.7	684.6	687.4
32.5°	818.7	814.3	777.3	723.8	712.2	715.0	713.4	701.8	688.4	691.2
35°	908.6	898.0	845.7	767.0	731.0	727.8	724.1	712.8	696.2	693.4
37.5°	1099.8	1081.0	991.7	851.3	773.6	753.2	741.6	730.4	704.7	693.4
40°	1315.3	1296.2	1193.1	992.3	844.4	809.9	782.4	751.0	713.4	697.5
42.5°	1540.3	1519.3	1413.4	1167.1	945.6	874.8	823.4	767.6	727.8	710.0
45°	1791.6	1765.2	1626.8	1349.5	1092.5	982.6	889.5	801.8	752.9	732.2
47.5°	2056.6	2022.5	1839.5	1526.5	1250.8	1131.7	1010.5	862.9	789.9	765.4
50°	2291.6	2257.8	2059.1	1711.7	1398.7	1273.6	1148.3	947.5	845.3	812.4
52.5°	2460.5	2434.8	2259.0	1902.8	1552.5	1406.8	1273.3	1045.9	915.5	872.6
55°	2573.6	2550.1	2400.7	2083.9	1731.4	1553.4	1396.5	1152.7	1000.1	944.7
57.5°	2642.2	2628.8	2503.1	2245.6	1908.7	1713.9	1537.5	1270.2	1099.8	1029.6
60°	2666.7	2655.7	2566.7	2399.7	2123.1	1906.6	1703.2	1402.7	1220.7	1126.1
62.5°	2601.5	2603.7	2612.5	2582.4	2349.0	2132.1	1901.9	1561.9	1354.8	1235.4
65°	2294.8	2312.9	2479.6	2784.8	2648.2	2414.8	2154.7	1756.2	1508.3	1359.8
67.5°	1900.0	1926.3	2133.7	2903.2	2967.1	2781.7	2506.9	2003.7	1691.3	1486.4
70°	1454.4	1482.6	1733.9	2878.5	3265.7	3182.7	2942.4	2318.6	1880.9	1574.1
72.5°	1038.0	1052.4	1250.5	2658.2	3388.2	3455.9	3263.2	2616.9	1977.7	1525.6
75°	729.4	726.9	858.2	2140.6	3197.4	3422.7	3150.8	2455.5	1789.7	1211.9
77.5°	317.7	318.3	428.6	1300.0	2552.0	2923.3	2619.0	1538.1	1247.6	642.3
80°	82.4	84.9	157.3	517.6	1536.5	1929.4	1597.3	676.1	576.5	156.7
82.5°	29.1	31.0	72.4	162.6	566.8	884.8	711.2	216.2	150.4	44.8
85°	8.5	10.0	38.9	49.8	117.2	250.0	172.6	42.0	37.0	23.2
87.5°	0.0	1.3	7.8	6.9	6.9	4.7	8.8	4.7	6.0	2.8
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°
550.8	0°	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8
555.5	2.5°	553.6	551.4	546.7	541.7	537.0	532.6	531.4	526.7	524.5	524.8
559.9	5°	556.5	552.4	543.3	532.3	521.1	508.2	497.6	482.5	469.7	468.1
568.4	7.5°	564.0	557.4	542.7	521.4	493.2	457.8	424.9	392.3	373.8	363.8
580.9	10°	575.6	566.8	544.2	503.5	443.7	380.4	330.6	289.5	268.5	258.8
596.2	12.5°	589.4	579.6	546.7	473.1	379.7	296.7	242.8	217.8	213.4	212.7
615.0	15°	608.8	598.1	549.6	432.1	310.5	225.9	201.2	201.5	204.9	206.8
635.4	17.5°	630.4	619.7	545.5	381.9	242.2	193.0	192.4	195.2	200.2	202.1
654.2	20°	652.3	642.3	531.1	323.0	195.8	183.9	186.4	189.6	194.6	197.1
672.7	22.5°	674.9	666.1	508.2	260.4	176.7	177.3	180.5	183.6	189.2	192.1
690.9	25°	699.0	691.5	477.8	208.7	168.6	170.4	174.5	178.3	184.2	187.7
706.2	27.5°	723.5	717.8	443.3	174.2	161.0	163.2	167.9	173.0	178.9	183.0
719.7	30°	750.1	747.0	415.8	161.4	153.8	155.7	161.0	166.7	173.3	178.3
733.2	32.5°	777.3	776.7	402.3	170.8	147.3	148.5	153.2	158.9	167.0	173.3
744.4	35°	804.3	805.5	394.5	197.4	145.1	141.6	144.8	149.8	159.5	167.3
757.3	37.5°	838.8	841.9	394.2	226.2	150.4	134.7	136.9	140.4	148.8	157.9
777.3	40°	890.1	906.8	414.2	251.0	159.8	128.5	129.1	129.7	134.1	141.6
804.0	42.5°	958.4	1007.0	486.6	267.9	163.6	122.8	120.6	117.2	116.6	120.6
840.3	45°	1043.4	1128.3	613.8	277.3	159.8	116.6	110.6	101.5	98.1	100.9
889.5	47.5°	1143.3	1261.1	764.5	279.5	153.5	108.7	98.1	86.2	83.3	84.3
955.6	50°	1240.7	1360.8	897.0	261.3	143.2	98.7	84.3	74.3	72.4	72.7
1033.6	52.5°	1326.9	1394.9	934.6	218.4	129.4	86.5	72.4	65.5	64.2	64.2
1119.8	55°	1383.9	1357.9	833.4	167.0	112.2	73.9	62.0	58.6	58.0	57.7
1216.0	57.5°	1395.8	1237.6	629.5	120.6	87.7	62.4	55.1	53.3	52.0	50.8
1314.7	60°	1353.2	1037.1	400.7	84.3	65.8	53.3	48.9	47.6	45.1	42.6
1407.4	62.5°	1261.1	783.3	221.8	58.6	53.0	45.4	43.2	41.7	37.0	32.9
1481.1	65°	1137.4	520.7	98.1	45.7	43.2	38.2	37.0	34.8	29.1	24.4
1509.0	67.5°	1013.0	299.8	44.2	36.7	34.8	31.3	30.4	28.8	24.8	20.4
1437.8	70°	871.0	152.0	30.4	29.1	26.9	23.8	24.8	24.4	20.4	16.6
1172.8	72.5°	648.6	75.5	22.9	21.9	19.4	16.9	20.4	20.1	16.0	12.5
723.1	75°	367.2	37.3	16.6	15.4	11.6	12.5	16.3	15.4	11.0	8.1
305.2	77.5°	145.7	19.1	11.0	9.4	6.9	8.5	11.9	10.3	5.6	3.4
58.3	80°	33.5	9.4	5.6	4.1	3.1	5.0	6.3	3.8	1.6	0.3
15.7	82.5°	9.4	4.1	1.9	1.6	1.6	1.9	1.6	0.6	0.0	0.0
4.1	85°	3.1	1.9	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.3	87.5°	1.3	0.6	0.0	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>
550.8
524.5
467.2
363.1
256.9
212.4
206.5
201.8
197.1
192.1
187.7
183.3
178.9
173.9
168.6
159.5
144.1
122.8
100.9
84.0
72.7
63.9
57.0
50.1
41.7
31.6
23.5
19.7
16.0
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