

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: P945542

Luminaire Tested: **GALN-SB1B-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-950-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

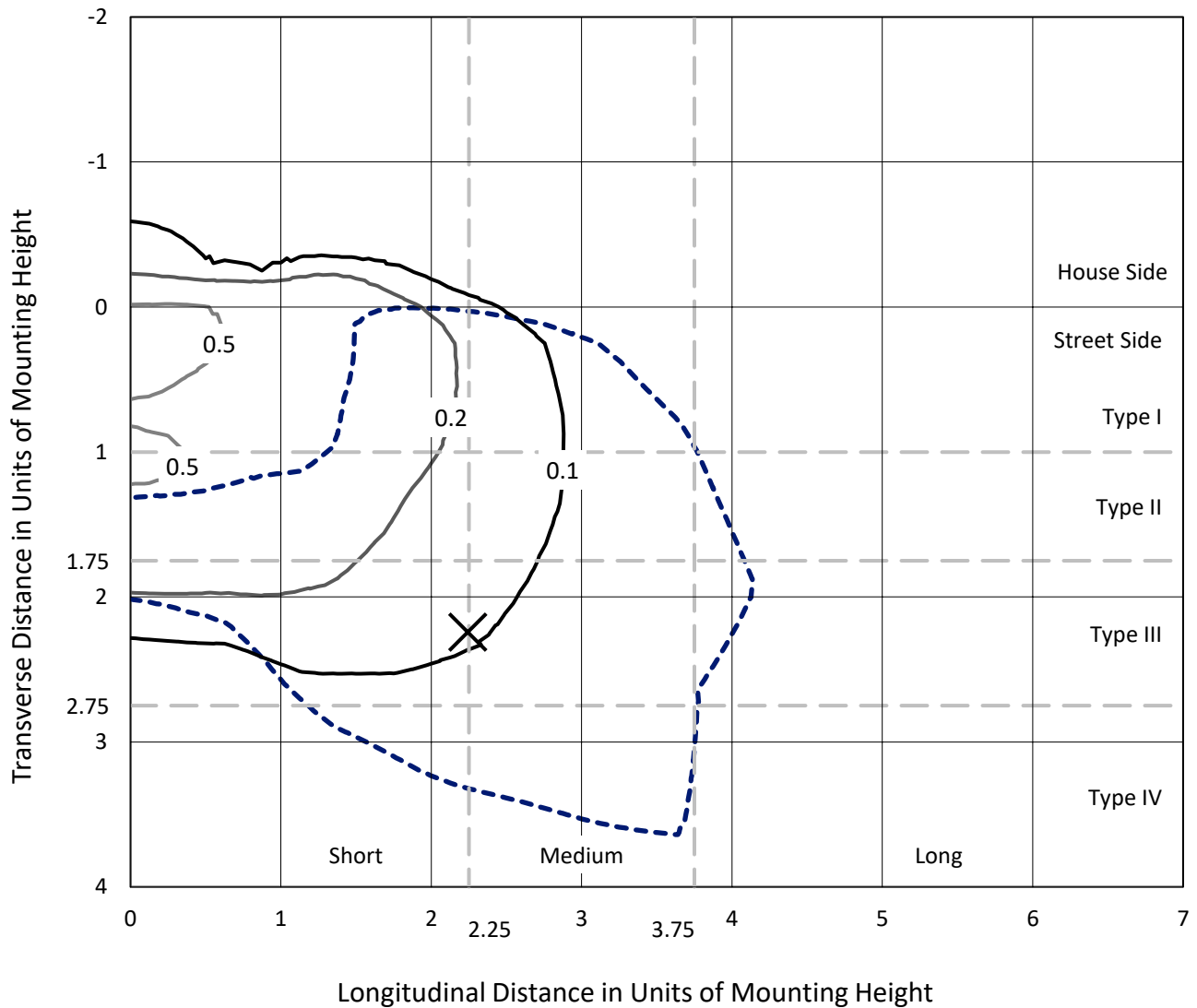
Lumens per Lamp: N/A  
Luminaire Lumens: 3018 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

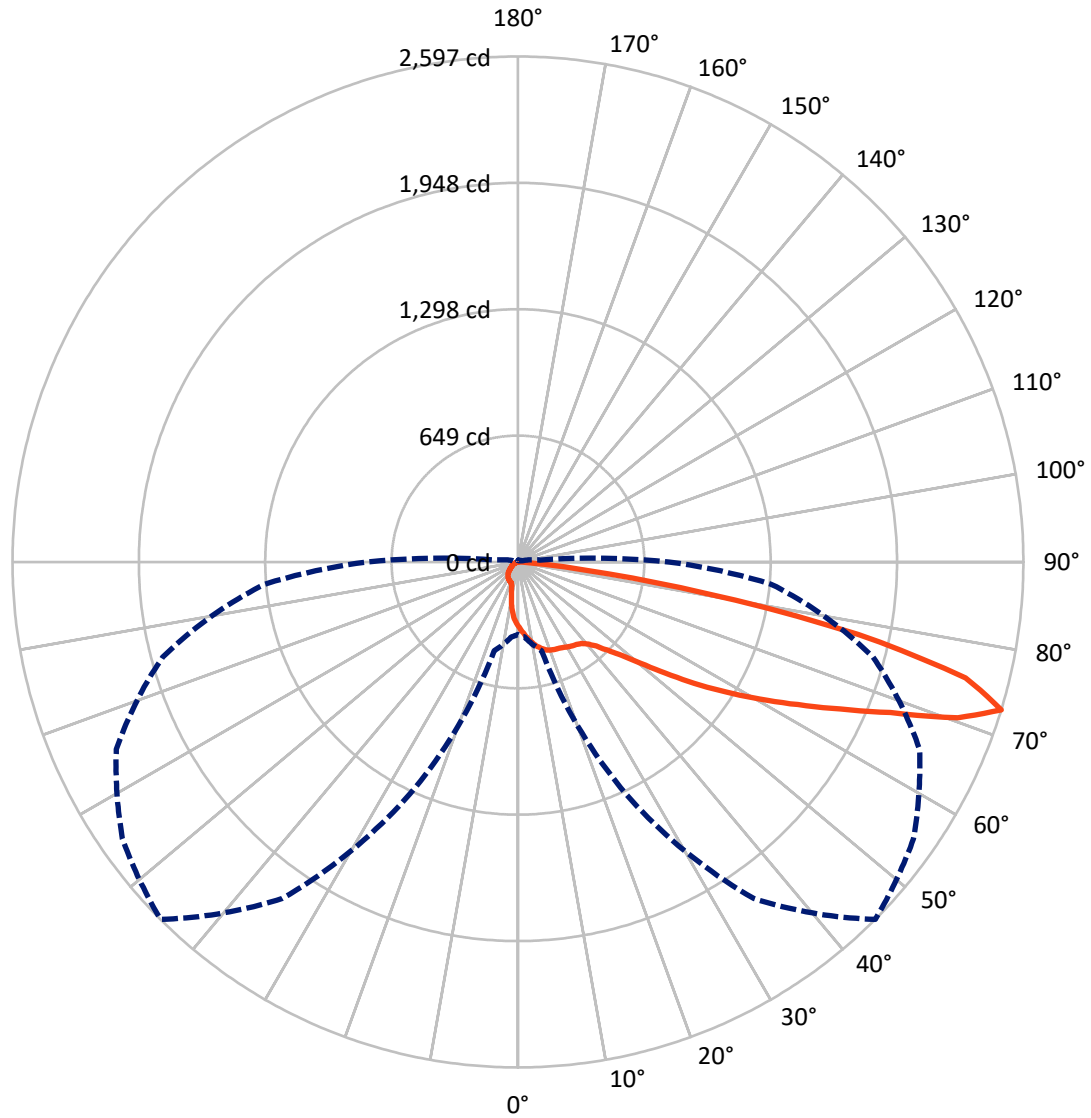
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	317.1	0.0	317.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2700.9	0.0	2700.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3018.0	0.0	3018.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.2	1.0
10°-20°	91.0	3.0
20°-30°	149.5	5.0
30°-40°	212.0	7.0
40°-50°	350.5	11.6
50°-60°	629.6	20.9
60°-70°	874.2	29.0
70°-80°	634.1	21.0
80°-90°	45.8	1.5
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°	3018.0	100.0
0°-180°	3018.0	100.0

**Coefficient of Utilization**



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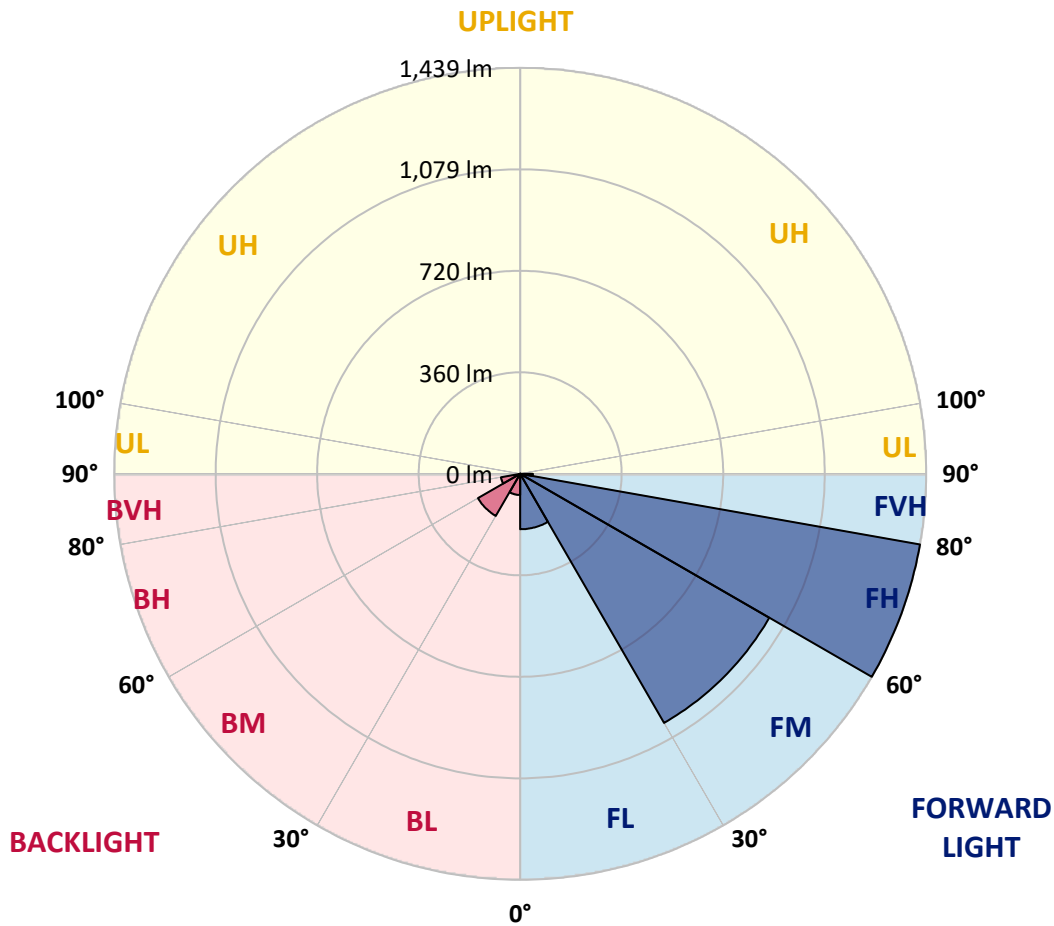
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.6	6.5			
FM (30°-60°)	1019.6	33.8			
FH (60°-80°)	1439.2	47.7			G1/1800
FVH (80°-90°)	45.5	1.5			G1/100
BL (0°-30°)	75.1	2.5	B0/110		
BM (30°-60°)	172.5	5.7	B0/220		
BH (60°-80°)	69.1	2.3	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	330.6	330.6	330.6	330.6	330.6	330.6	330.6	330.6	330.6	330.6
2.5°	361.1	361.7	361.3	358.9	354.7	352.5	351.2	347.1	344.4	339.7
5°	394.3	396.8	395.3	390.4	382.5	377.0	375.3	366.9	359.3	350.4
7.5°	429.5	430.7	428.1	421.7	411.2	401.7	400.3	388.5	376.4	362.8
10°	460.0	461.4	457.3	448.0	436.1	424.4	422.3	409.3	394.9	378.2
12.5°	485.5	487.0	481.6	470.5	457.3	445.2	443.1	429.5	413.6	395.1
15°	504.9	507.6	500.4	488.4	474.2	462.1	461.0	447.6	432.2	411.6
17.5°	516.2	518.9	512.1	497.7	485.5	475.2	474.0	462.9	448.5	428.7
20°	518.1	520.6	513.3	500.8	490.7	482.4	481.8	473.8	463.3	444.3
22.5°	512.5	515.6	509.0	498.9	491.9	487.6	486.8	482.2	476.3	460.2
25°	506.8	509.2	504.3	495.4	491.7	491.3	491.9	491.1	489.9	476.3
27.5°	506.3	509.0	503.5	495.0	493.0	497.3	497.9	501.8	502.8	490.9
30°	509.8	511.7	506.3	497.5	496.5	506.3	506.6	513.6	515.2	503.3
32.5°	517.5	519.5	514.2	501.2	499.8	513.6	514.2	523.4	526.1	516.4
35°	535.4	537.9	531.7	511.5	506.3	520.4	522.2	533.1	538.5	530.4
37.5°	580.1	572.9	564.4	532.3	521.4	531.1	534.2	546.9	556.4	547.1
40°	691.1	668.5	642.1	567.7	547.8	553.9	556.4	569.2	582.2	573.1
42.5°	857.8	831.0	788.6	649.3	587.5	590.6	592.5	603.6	621.9	614.7
45°	1006.3	996.6	953.4	788.6	661.9	646.6	648.9	654.7	681.7	679.0
47.5°	1120.4	1114.9	1081.5	948.4	787.5	715.2	721.6	724.3	763.2	772.7
50°	1208.2	1206.1	1176.3	1090.6	951.7	816.4	818.6	812.9	871.2	894.7
52.5°	1291.0	1298.0	1276.0	1222.6	1127.0	948.8	948.4	921.2	999.9	1035.4
55°	1365.8	1368.2	1370.5	1357.3	1303.4	1099.6	1095.7	1051.2	1149.3	1185.9
57.5°	1436.0	1437.0	1457.2	1484.2	1486.9	1261.5	1254.3	1201.0	1312.4	1338.6
60°	1483.2	1487.9	1530.6	1605.6	1638.3	1428.6	1424.7	1370.3	1478.5	1490.6
62.5°	1415.2	1444.1	1551.6	1700.3	1781.3	1613.8	1611.9	1560.9	1653.1	1643.3
65°	1145.6	1194.4	1383.5	1764.4	1921.6	1820.6	1823.3	1768.9	1832.6	1800.4
67.5°	801.3	852.8	1076.6	1769.5	2078.3	2063.5	2078.9	1993.7	2023.1	1951.0
70°	554.1	580.7	726.4	1658.7	2200.5	2398.0	2397.6	2269.7	2212.6	2019.6
72.5°	372.7	386.5	471.7	1315.9	2110.7	2596.8	2584.9	2480.6	2276.5	1888.8
75°	157.2	167.3	218.4	739.5	1669.8	2375.8	2343.4	2192.2	2022.7	1487.3
77.5°	49.9	54.2	86.1	264.7	919.8	1785.8	1751.6	1369.1	1355.7	746.1
80°	23.7	27.6	48.4	106.3	361.9	971.3	966.5	621.1	583.2	201.5
82.5°	10.3	12.2	26.8	56.9	161.9	346.5	353.5	211.4	174.9	76.4
85°	3.3	4.3	12.4	26.2	68.4	86.1	85.1	50.3	70.5	41.6
87.5°	0.0	0.0	4.1	6.0	7.0	4.9	5.6	4.3	19.6	11.5
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°
330.6	0°	330.6	330.6	330.6	330.6	330.6	330.6	330.6	330.6	330.6	330.6
334.7	2.5°	332.3	329.0	323.2	317.9	313.1	308.4	305.5	301.4	301.0	301.0
340.1	5°	334.5	329.2	318.9	308.0	295.4	283.5	271.5	260.0	256.3	253.6
348.8	7.5°	341.1	332.7	316.4	295.6	271.7	245.6	227.2	207.4	199.8	195.7
360.3	10°	350.6	339.1	314.4	277.9	239.2	203.5	177.4	155.9	147.7	144.2
372.9	12.5°	361.1	346.9	310.6	255.9	203.5	160.9	135.3	125.5	124.2	124.2
387.9	15°	373.7	356.4	304.3	229.9	166.2	127.3	118.2	118.7	119.9	120.7
402.5	17.5°	386.7	366.5	294.2	200.8	133.3	114.5	114.7	115.4	116.4	117.2
418.4	20°	400.7	376.6	280.8	169.9	114.3	110.8	111.4	112.1	112.9	113.3
433.2	22.5°	415.7	386.0	264.9	139.7	107.9	107.7	107.9	108.6	109.6	109.6
450.5	25°	431.8	396.5	246.8	117.6	104.6	104.6	105.1	105.5	106.3	106.3
467.2	27.5°	448.3	406.2	227.6	106.1	101.8	101.6	101.6	102.2	102.6	102.8
483.7	30°	466.4	417.6	208.5	103.6	99.5	98.5	97.8	98.3	98.7	98.9
501.0	32.5°	484.9	428.5	191.4	104.6	97.2	95.4	93.3	92.9	92.9	93.7
518.9	35°	505.5	440.4	178.2	108.1	96.0	90.8	87.5	85.7	85.9	87.1
540.3	37.5°	530.2	454.8	168.5	111.2	95.2	85.7	80.3	78.1	76.6	78.1
569.8	40°	562.6	476.1	161.5	113.7	94.1	79.7	72.5	68.8	66.1	66.9
615.5	42.5°	610.2	509.4	158.8	113.9	91.9	72.7	64.5	59.5	55.6	55.8
684.3	45°	676.9	562.2	172.6	111.2	86.9	65.1	56.0	49.4	47.0	46.3
787.1	47.5°	768.4	639.0	204.6	105.7	79.7	57.7	47.8	42.2	40.4	39.3
922.1	50°	890.9	737.7	240.0	99.5	72.5	50.7	41.0	37.5	36.3	35.2
1082.1	52.5°	1033.1	837.8	269.0	93.3	65.3	44.5	36.7	34.6	33.6	32.8
1236.6	55°	1163.5	906.8	267.4	86.7	58.3	39.6	33.6	32.3	31.1	30.3
1369.7	57.5°	1244.6	916.5	220.4	79.5	50.3	35.6	30.7	29.9	28.4	27.4
1484.8	60°	1281.9	861.3	154.5	70.0	42.2	31.9	27.6	27.2	25.3	23.9
1593.8	62.5°	1288.7	758.7	103.0	58.3	35.2	28.4	24.5	23.9	21.4	19.0
1682.4	65°	1261.1	612.0	71.3	45.5	30.1	24.7	21.0	19.8	17.1	14.6
1703.4	67.5°	1173.8	429.7	49.6	32.8	25.5	19.6	16.7	16.3	14.2	12.2
1596.3	70°	1013.7	244.9	33.2	24.5	20.2	13.4	13.2	13.6	11.5	9.9
1304.2	72.5°	777.2	112.1	20.6	17.9	13.8	9.1	10.5	10.7	8.9	7.4
813.7	75°	457.5	48.0	13.0	11.5	7.0	6.0	7.6	7.8	6.0	4.7
297.5	77.5°	155.7	18.1	8.2	6.8	3.5	3.3	4.9	4.9	3.3	1.9
59.7	80°	35.4	6.8	4.1	2.7	1.6	1.4	1.6	1.4	0.8	0.2
18.3	82.5°	10.1	2.7	1.6	1.0	0.6	0.6	0.2	0.0	0.0	0.0
6.4	85°	2.9	1.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	1.2	0.2	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>
330.6
302.0
254.8
196.3
144.2
124.2
120.7
117.2
113.5
110.0
106.5
103.0
99.3
94.3
87.8
77.7
66.5
55.0
45.5
38.7
35.0
32.5
29.9
27.2
23.5
17.7
13.8
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9.1
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4.1
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