

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: P939031

Luminaire Tested: **GALN-SB1B-940-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939031  
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-940-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

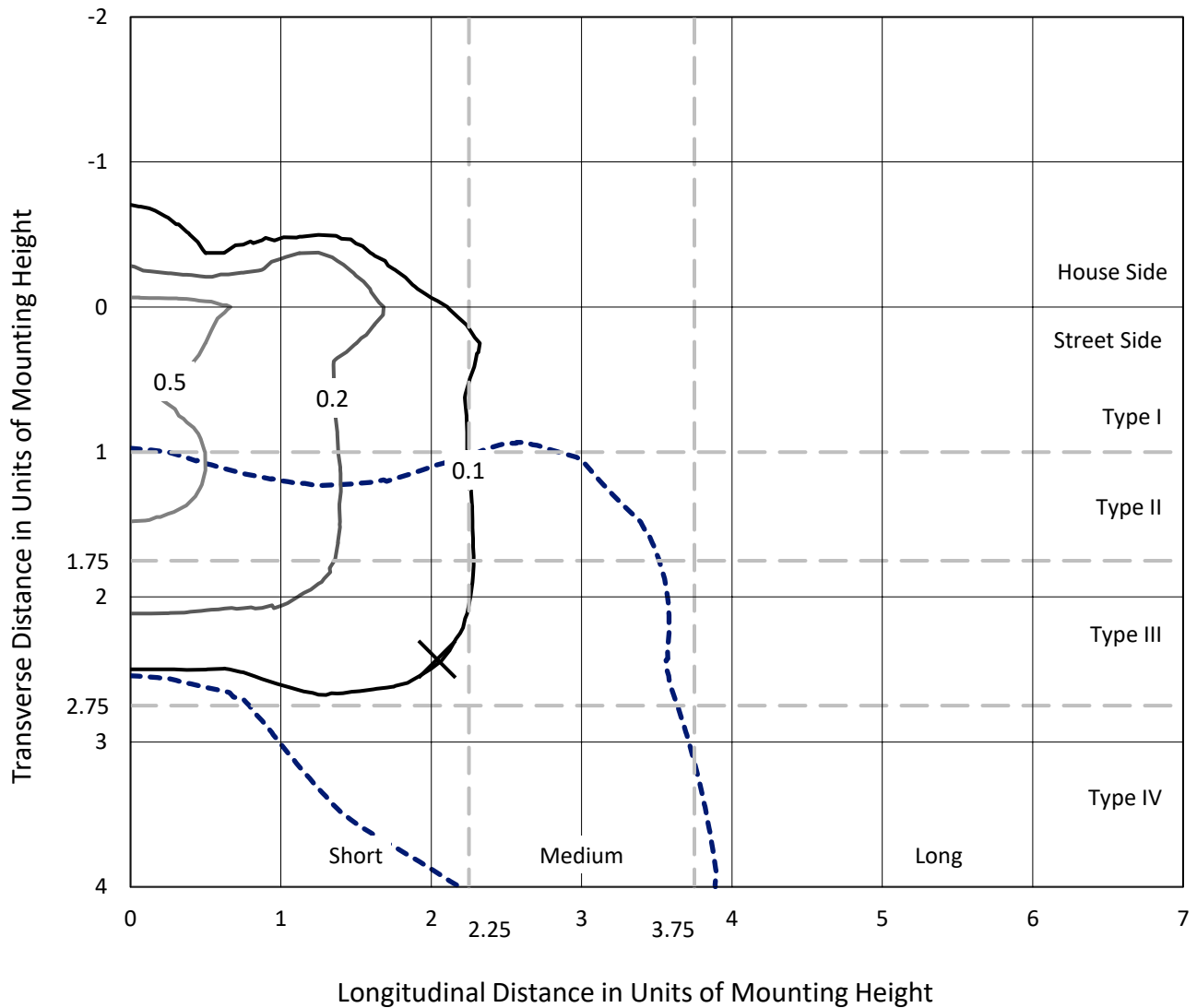
Lumens per Lamp: N/A  
Luminaire Lumens: 2849 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

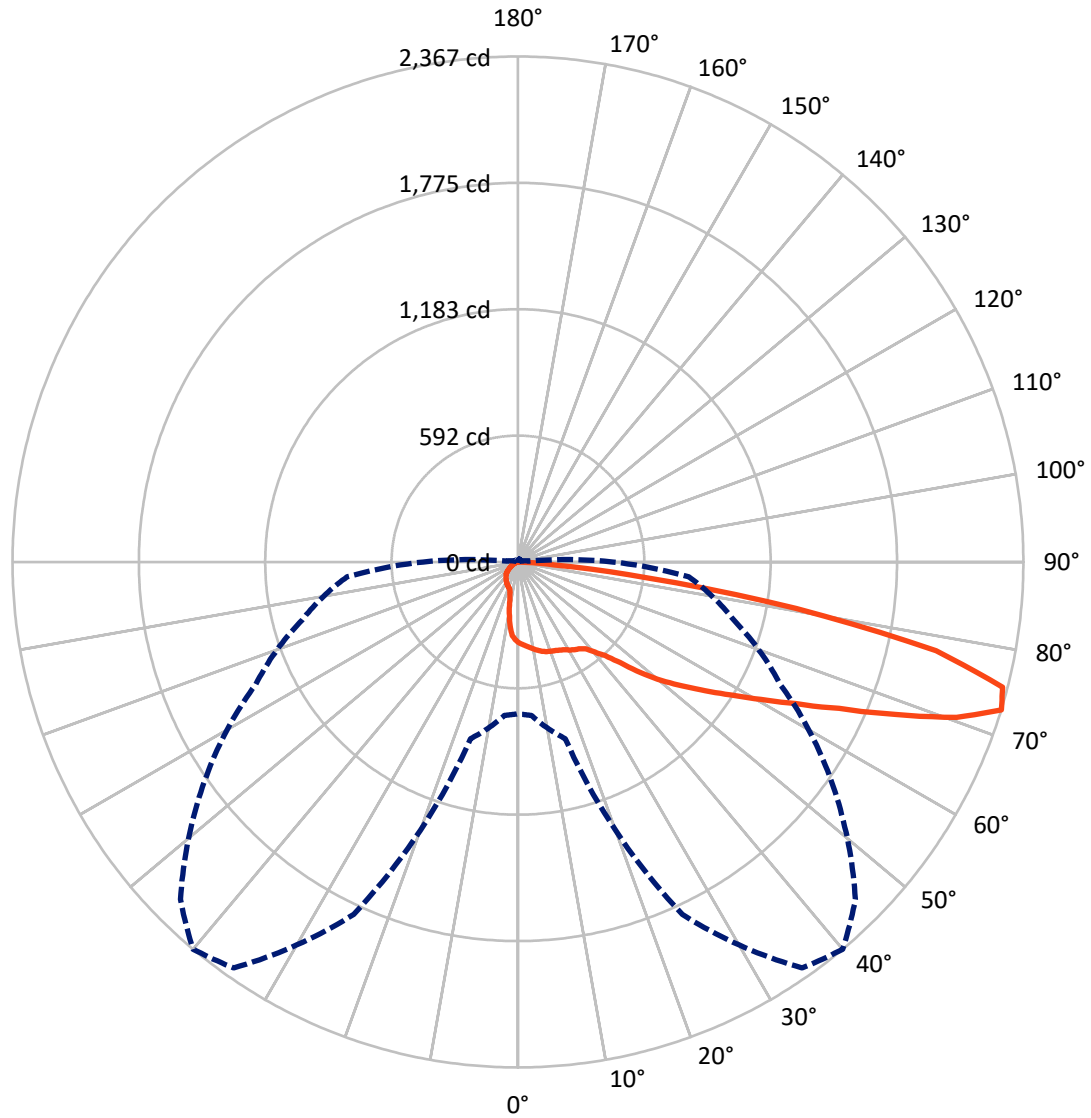
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	367.9	0.0	367.9
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	2481.1	0.0	2481.1
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	2849.0	0.0	2849.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.5	1.2
10°-20°	93.6	3.3
20°-30°	151.4	5.3
30°-40°	223.5	7.8
40°-50°	376.2	13.2
50°-60°	584.1	20.5
60°-70°	730.8	25.7
70°-80°	598.3	21.0
80°-90°	56.7	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°	2849.0	100.0
0°-180°	2849.0	100.0

**Coefficient of Utilization**



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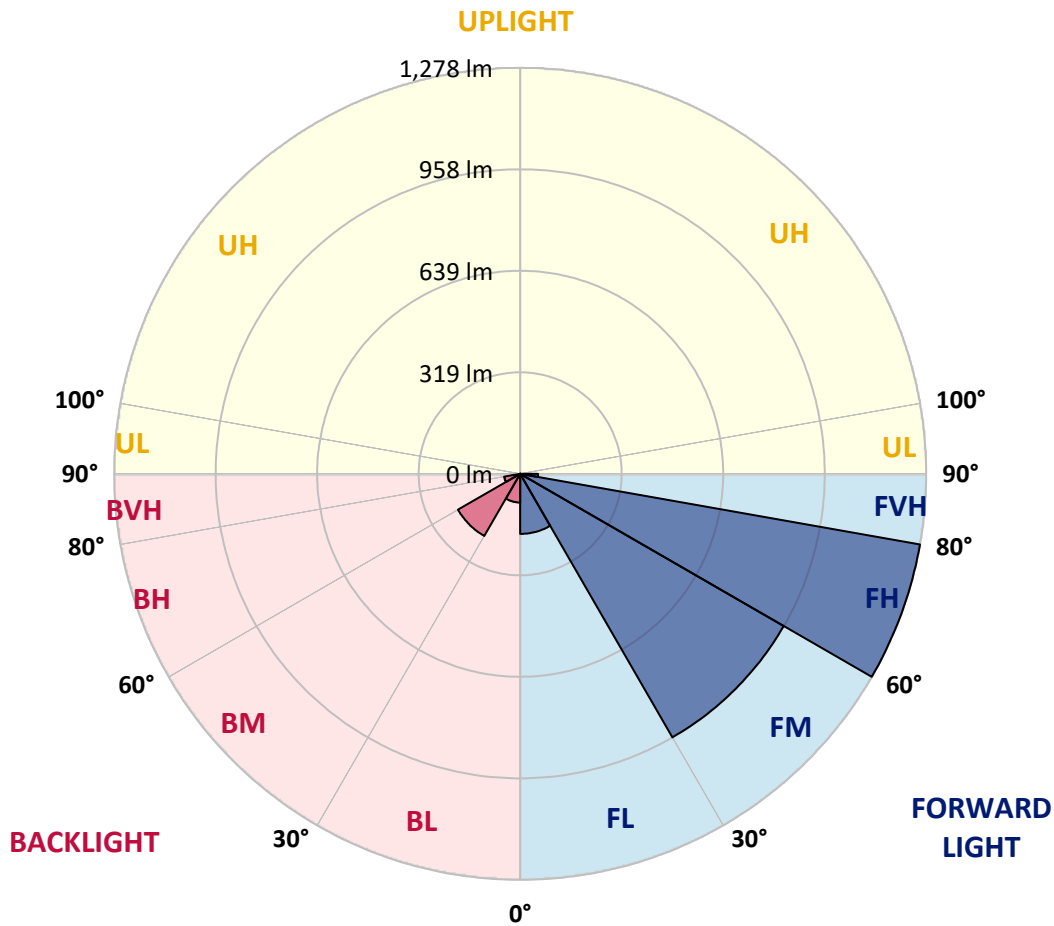
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.1	6.6			
FM (30°-60°)	957.8	33.6			
FH (60°-80°)	1277.9	44.9			G1/1800
FVH (80°-90°)	56.3	2.0			G1/100
BL (0°-30°)	90.3	3.2	B0/110		
BM (30°-60°)	225.9	7.9	B1/1000		
BH (60°-80°)	51.3	1.8	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: B1-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2
2.5°	388.6	390.1	389.2	387.5	387.1	386.2	385.2	384.7	383.2	382.0
5°	399.5	401.0	400.0	397.6	396.5	395.5	394.0	392.7	389.7	386.9
7.5°	411.6	412.9	411.6	408.1	406.4	405.1	403.0	401.0	397.6	393.5
10°	424.9	425.9	424.0	419.5	416.7	414.8	412.9	410.7	407.5	403.0
12.5°	437.3	438.6	435.6	430.2	427.0	425.1	422.9	421.2	418.0	413.7
15°	448.7	450.6	445.5	439.7	436.0	434.5	432.4	431.3	429.2	426.2
17.5°	457.3	458.6	453.2	446.3	442.2	441.2	439.7	440.3	439.9	438.4
20°	464.6	465.4	458.3	450.0	445.5	445.7	445.3	447.4	448.3	448.3
22.5°	473.6	473.8	464.8	454.3	448.9	450.4	451.0	453.4	455.1	456.8
25°	485.4	484.9	474.2	459.8	455.1	457.3	458.8	459.6	461.6	464.3
27.5°	503.0	501.7	488.0	468.9	463.3	465.2	468.0	467.6	466.7	468.9
30°	525.3	523.6	505.3	481.5	476.4	478.1	478.9	475.1	468.9	470.8
32.5°	560.7	557.7	532.4	495.7	487.7	489.7	488.6	480.7	471.4	473.4
35°	622.3	615.0	579.1	525.3	500.6	498.5	495.9	488.2	476.8	474.9
37.5°	753.2	740.3	679.1	583.0	529.8	515.8	507.9	500.2	482.6	474.9
40°	900.8	887.7	817.1	679.6	578.3	554.7	535.8	514.3	488.6	477.7
42.5°	1054.9	1040.5	968.0	799.3	647.6	599.1	563.9	525.7	498.5	486.2
45°	1227.0	1208.9	1114.1	924.2	748.2	672.9	609.2	549.1	515.6	501.5
47.5°	1408.5	1385.1	1259.8	1045.4	856.6	775.1	692.0	591.0	541.0	524.2
50°	1569.4	1546.3	1410.2	1172.2	957.9	872.3	786.4	648.9	578.9	556.4
52.5°	1685.1	1667.5	1547.1	1303.1	1063.2	963.5	872.1	716.3	627.0	597.6
55°	1762.6	1746.5	1644.1	1427.2	1185.8	1063.9	956.4	789.4	684.9	647.0
57.5°	1809.5	1800.3	1714.3	1537.9	1307.2	1173.7	1052.9	869.9	753.2	705.1
60°	1826.3	1818.8	1757.8	1643.5	1454.0	1305.7	1166.5	960.7	836.0	771.2
62.5°	1781.7	1783.2	1789.2	1768.6	1608.7	1460.2	1302.5	1069.7	927.8	846.1
65°	1571.6	1584.0	1698.2	1907.2	1813.6	1653.8	1475.7	1202.7	1033.0	931.3
67.5°	1301.2	1319.2	1461.3	1988.3	2032.1	1905.0	1716.9	1372.2	1158.3	1018.0
70°	996.1	1015.4	1187.5	1971.3	2236.6	2179.7	2015.1	1587.9	1288.1	1078.0
72.5°	710.9	720.8	856.4	1820.5	2320.5	2366.8	2234.8	1792.2	1354.4	1044.8
75°	499.5	497.8	587.7	1466.0	2189.8	2344.1	2157.8	1681.7	1225.7	830.0
77.5°	217.6	218.0	293.5	890.3	1747.7	2002.0	1793.7	1053.4	854.5	439.9
80°	56.4	58.2	107.7	354.5	1052.3	1321.4	1093.9	463.1	394.8	107.3
82.5°	20.0	21.2	49.6	111.4	388.2	606.0	487.1	148.1	103.0	30.7
85°	5.8	6.9	26.6	34.1	80.3	171.2	118.2	28.8	25.3	15.9
87.5°	0.0	0.9	5.4	4.7	4.7	3.2	6.0	3.2	4.1	1.9
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°
377.2	0°	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2
380.4	2.5°	379.2	377.7	374.4	371.0	367.8	364.8	363.9	360.7	359.2	359.4
383.5	5°	381.1	378.3	372.1	364.6	356.8	348.0	340.8	330.5	321.7	320.6
389.2	7.5°	386.2	381.7	371.7	357.1	337.7	313.5	291.0	268.7	256.0	249.1
397.8	10°	394.2	388.2	372.7	344.8	303.8	260.5	226.4	198.3	183.9	177.2
408.3	12.5°	403.6	397.0	374.4	324.0	260.1	203.2	166.3	149.1	146.1	145.7
421.2	15°	416.9	409.6	376.4	295.9	212.6	154.7	137.8	138.0	140.3	141.6
435.2	17.5°	431.7	424.4	373.6	261.6	165.9	132.2	131.8	133.7	137.1	138.4
448.0	20°	446.8	439.9	363.7	221.2	134.1	126.0	127.7	129.8	133.3	135.0
460.7	22.5°	462.2	456.2	348.0	178.3	121.0	121.5	123.6	125.7	129.6	131.5
473.1	25°	478.7	473.6	327.2	142.9	115.4	116.7	119.5	122.1	126.2	128.5
483.7	27.5°	495.5	491.6	303.6	119.3	110.3	111.8	115.0	118.4	122.5	125.3
492.9	30°	513.7	511.6	284.7	110.5	105.4	106.6	110.3	114.2	118.7	122.1
502.1	32.5°	532.4	531.9	275.5	116.9	100.9	101.7	104.9	108.8	114.4	118.7
509.8	35°	550.8	551.7	270.2	135.2	99.4	97.0	99.1	102.6	109.2	114.6
518.6	37.5°	574.4	576.6	269.9	154.9	103.0	92.3	93.8	96.1	101.9	108.1
532.4	40°	609.6	621.0	283.7	171.9	109.4	88.0	88.4	88.8	91.8	97.0
550.6	42.5°	656.4	689.7	333.2	183.5	112.0	84.1	82.6	80.3	79.8	82.6
575.5	45°	714.5	772.7	420.4	189.9	109.4	79.8	75.7	69.5	67.2	69.1
609.2	47.5°	783.0	863.7	523.6	191.4	105.1	74.5	67.2	59.0	57.1	57.7
654.5	50°	849.7	931.9	614.3	179.0	98.1	67.6	57.7	50.9	49.6	49.8
707.9	52.5°	908.7	955.3	640.1	149.6	88.6	59.2	49.6	44.8	44.0	44.0
766.9	55°	947.8	930.0	570.8	114.4	76.8	50.6	42.5	40.1	39.7	39.5
832.8	57.5°	956.0	847.6	431.1	82.6	60.1	42.7	37.8	36.5	35.6	34.8
900.4	60°	926.8	710.3	274.4	57.7	45.1	36.5	33.5	32.6	30.9	29.2
963.9	62.5°	863.7	536.4	151.9	40.1	36.3	31.1	29.6	28.5	25.3	22.5
1014.3	65°	778.9	356.6	67.2	31.3	29.6	26.2	25.3	23.8	20.0	16.7
1033.4	67.5°	693.7	205.4	30.3	25.1	23.8	21.5	20.8	19.7	17.0	13.9
984.7	70°	596.5	104.1	20.8	20.0	18.5	16.3	17.0	16.7	13.9	11.4
803.2	72.5°	444.2	51.7	15.7	15.0	13.3	11.6	13.9	13.7	10.9	8.6
495.2	75°	251.5	25.5	11.4	10.5	7.9	8.6	11.2	10.5	7.5	5.6
209.0	77.5°	99.8	13.1	7.5	6.4	4.7	5.8	8.2	7.1	3.9	2.4
39.9	80°	23.0	6.4	3.9	2.8	2.1	3.4	4.3	2.6	1.1	0.2
10.7	82.5°	6.4	2.8	1.3	1.1	1.1	1.3	1.1	0.4	0.0	0.0
2.8	85°	2.1	1.3	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0
0.9	87.5°	0.9	0.4	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>
377.2
359.2
319.9
248.7
176.0
145.5
141.4
138.2
135.0
131.5
128.5
125.5
122.5
119.1
115.4
109.2
98.7
84.1
69.1
57.5
49.8
43.8
39.1
34.3
28.5
21.7
16.1
13.5
10.9
8.2
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