

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: P946613

Luminaire Tested: **GALN-SB2A-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946613
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-SB2A-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4807 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

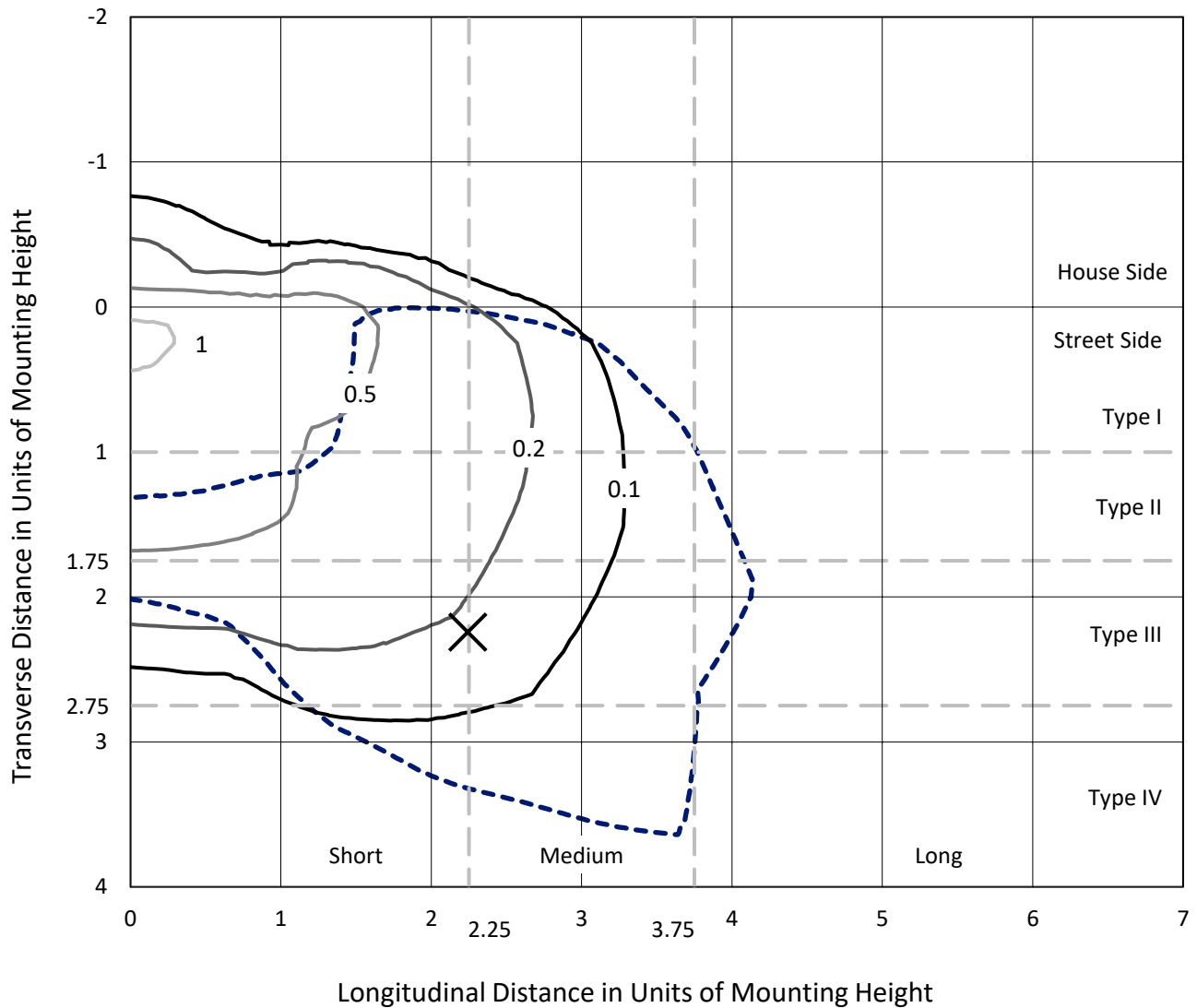
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

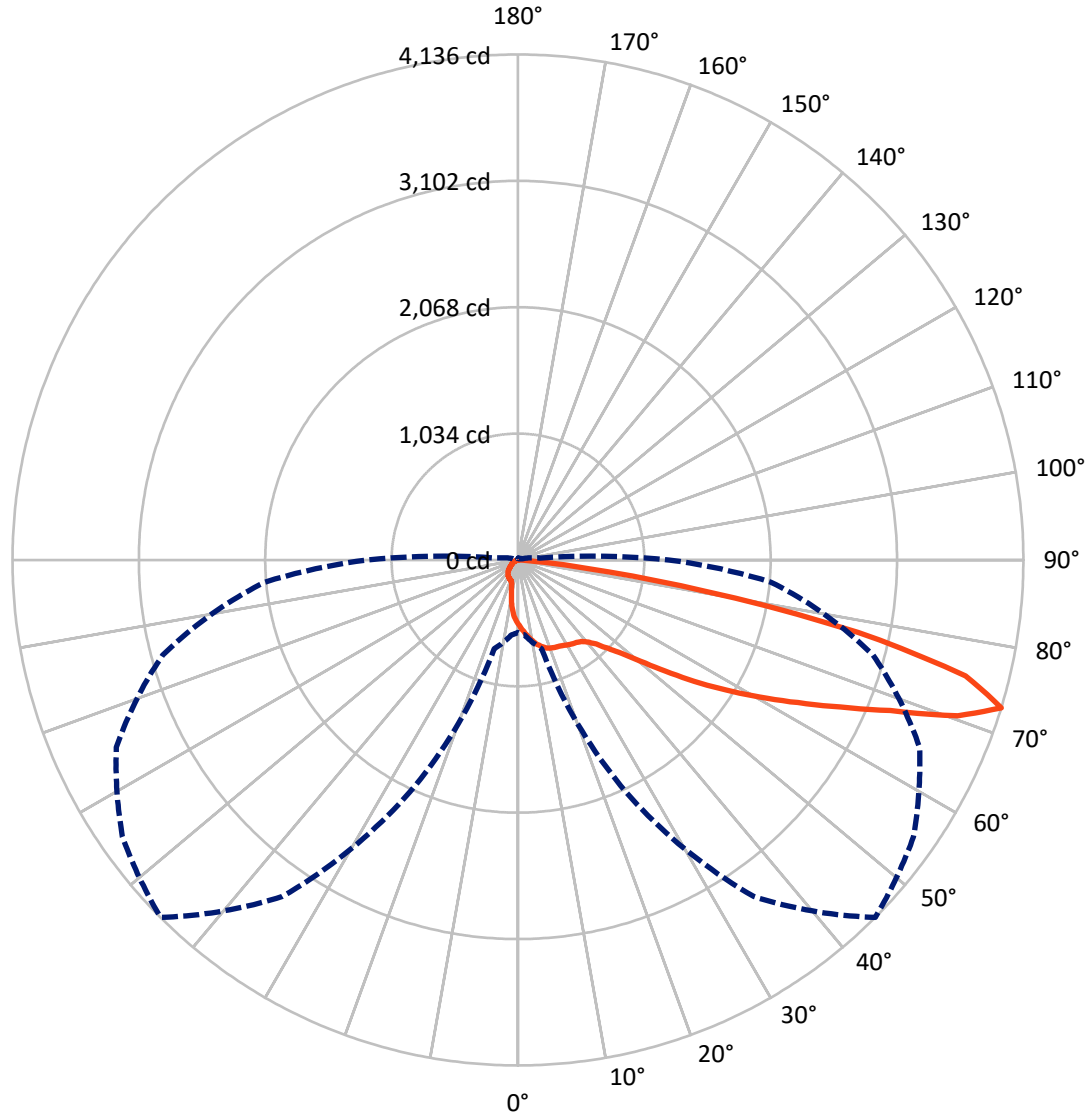
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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
House Side	Lumens	505.1	0.0	505.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4301.9	0.0	4301.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	4807.0	0.0	4807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.0
10°-20°	145.0	3.0
20°-30°	238.1	5.0
30°-40°	337.7	7.0
40°-50°	558.2	11.6
50°-60°	1002.8	20.9
60°-70°	1392.4	29.0
70°-80°	1010.0	21.0
80°-90°	73.0	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°	4807.0	100.0
0°-180°	4807.0	100.0

Coefficient of Utilization



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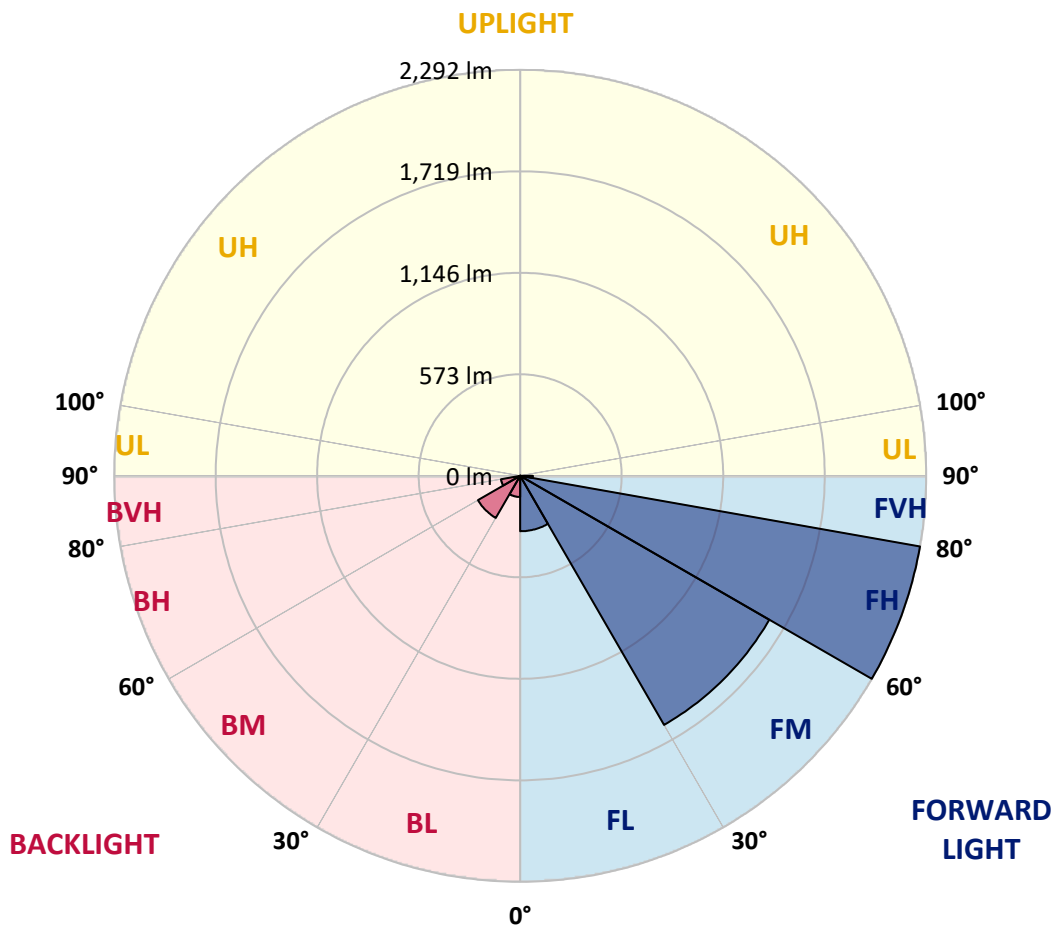
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.1	6.5			
FM (30°-60°)	1624.1	33.8			
FH (60°-80°)	2292.3	47.7			G2/5000
FVH (80°-90°)	72.4	1.5			G1/100
BL (0°-30°)	119.6	2.5	B1/500		
BM (30°-60°)	274.7	5.7	B1/1000		
BH (60°-80°)	110.1	2.3	B1/500		G1/500
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°	45°	46°	55°	65°	75°
0°	526.6	526.6	526.6	526.6	526.6	526.6	526.6	526.6	526.6	526.6
2.5°	575.2	576.2	575.5	571.6	565.0	561.4	559.4	552.9	548.6	541.1
5°	628.0	631.9	629.6	621.8	609.3	600.4	597.8	584.4	572.2	558.1
7.5°	684.1	686.1	681.8	671.6	654.9	639.8	637.5	618.8	599.5	577.8
10°	732.7	735.0	728.4	713.6	694.6	675.9	672.6	652.0	629.0	602.4
12.5°	773.4	775.7	767.1	749.4	728.4	709.0	705.8	684.1	658.8	629.3
15°	804.2	808.5	797.0	777.9	755.3	736.0	734.3	713.0	688.4	655.6
17.5°	822.2	826.5	815.7	792.7	773.4	757.0	755.0	737.3	714.3	682.8
20°	825.2	829.1	817.7	797.6	781.6	768.4	767.5	754.7	737.9	707.7
22.5°	816.3	821.3	810.8	794.7	783.5	776.6	775.3	768.1	758.6	733.0
25°	807.2	811.1	803.2	789.1	783.2	782.5	783.5	782.2	780.2	758.6
27.5°	806.5	810.8	801.9	788.4	785.2	792.1	793.0	799.3	800.9	781.9
30°	812.1	815.0	806.5	792.4	790.7	806.5	806.8	818.0	820.6	801.6
32.5°	824.2	827.5	819.0	798.3	796.0	818.0	819.0	833.7	838.0	822.6
35°	852.8	856.7	846.9	814.7	806.5	828.8	831.8	849.1	857.7	844.9
37.5°	924.0	912.5	899.0	847.8	830.4	845.9	850.8	871.1	886.2	871.5
40°	1100.8	1064.7	1022.7	904.3	872.4	882.3	886.2	906.6	927.2	912.8
42.5°	1366.3	1323.6	1256.0	1034.2	935.8	940.7	943.6	961.4	990.6	979.1
45°	1602.8	1587.4	1518.5	1256.0	1054.2	1029.9	1033.5	1042.7	1085.7	1081.5
47.5°	1784.6	1775.7	1722.6	1510.6	1254.4	1139.2	1149.4	1153.6	1215.6	1230.7
50°	1924.4	1921.1	1873.5	1737.0	1515.9	1300.3	1303.9	1294.7	1387.6	1425.0
52.5°	2056.3	2067.4	2032.3	1947.3	1795.1	1511.3	1510.6	1467.3	1592.6	1649.1
55°	2175.4	2179.3	2182.9	2161.9	2076.0	1751.5	1745.2	1674.3	1830.5	1888.9
57.5°	2287.3	2288.9	2321.1	2364.0	2368.3	2009.3	1997.9	1912.9	2090.4	2132.1
60°	2362.4	2369.9	2437.9	2557.3	2609.5	2275.4	2269.2	2182.6	2354.8	2374.2
62.5°	2254.1	2300.1	2471.3	2708.2	2837.2	2570.4	2567.5	2486.1	2633.1	2617.3
65°	1824.6	1902.4	2203.6	2810.3	3060.6	2899.8	2904.1	2817.5	2918.9	2867.7
67.5°	1276.3	1358.4	1714.7	2818.5	3310.3	3286.7	3311.3	3175.5	3222.4	3107.5
70°	882.6	924.9	1156.9	2641.9	3504.9	3819.5	3818.9	3615.1	3524.2	3216.8
72.5°	593.6	615.5	751.4	2096.0	3361.8	4136.2	4117.1	3951.1	3625.9	3008.4
75°	250.3	266.4	347.8	1177.9	2659.7	3784.1	3732.6	3491.8	3221.7	2369.0
77.5°	79.4	86.3	137.2	421.6	1465.0	2844.4	2789.9	2180.6	2159.3	1188.4
80°	37.7	44.0	77.1	169.3	576.5	1547.0	1539.5	989.3	928.9	320.9
82.5°	16.4	19.4	42.7	90.6	257.9	551.9	563.0	336.6	278.6	121.7
85°	5.2	6.9	19.7	41.7	108.9	137.2	135.5	80.1	112.2	66.3
87.5°	0.0	0.0	6.6	9.5	11.2	7.9	8.9	6.9	31.2	18.4
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°
526.6	0°	526.6	526.6	526.6	526.6	526.6	526.6	526.6	526.6	526.6	526.6
533.2	2.5°	529.2	524.0	514.8	506.3	498.7	491.2	486.6	480.0	479.4	479.4
541.7	5°	532.9	524.3	507.9	490.5	470.5	451.5	432.4	414.1	408.2	403.9
555.5	7.5°	543.4	529.9	504.0	470.8	432.8	391.1	361.9	330.4	318.3	311.7
573.9	10°	558.4	540.1	500.7	442.6	380.9	324.2	282.5	248.4	235.3	229.7
593.9	12.5°	575.2	552.5	494.8	407.5	324.2	256.3	215.6	199.8	197.9	197.9
617.8	15°	595.2	567.6	484.6	366.2	264.8	202.8	188.3	189.0	191.0	192.3
641.1	17.5°	615.9	583.7	468.5	319.9	212.3	182.4	182.8	183.7	185.4	186.7
666.4	20°	638.2	599.8	447.2	270.7	182.1	176.5	177.5	178.5	179.8	180.5
690.0	22.5°	662.1	614.9	421.9	222.5	171.9	171.6	171.9	172.9	174.6	174.6
717.6	25°	687.7	631.6	393.1	187.4	166.7	166.7	167.3	168.0	169.3	169.3
744.2	27.5°	714.0	647.0	362.6	169.0	162.1	161.8	161.8	162.7	163.4	163.7
770.4	30°	742.8	665.1	332.0	165.0	158.5	156.8	155.9	156.5	157.2	157.5
798.0	32.5°	772.4	682.5	304.8	166.7	154.9	151.9	148.6	148.0	148.0	149.3
826.5	35°	805.2	701.5	283.8	172.3	152.9	144.7	139.4	136.5	136.8	138.8
860.6	37.5°	844.6	724.5	268.4	177.2	151.6	136.5	128.0	124.4	122.1	124.4
907.6	40°	896.1	758.3	257.2	181.1	149.9	127.0	115.5	109.6	105.3	106.6
980.4	42.5°	971.9	811.4	253.0	181.4	146.3	115.8	102.7	94.8	88.6	88.9
1090.0	45°	1078.2	895.4	275.0	177.2	138.5	103.7	89.2	78.7	74.8	73.8
1253.7	47.5°	1223.9	1017.8	325.8	168.3	127.0	91.9	76.1	67.3	64.3	62.7
1468.6	50°	1419.1	1175.0	382.2	158.5	115.5	80.7	65.3	59.7	57.7	56.1
1723.6	52.5°	1645.5	1334.4	428.5	148.6	104.0	70.9	58.4	55.1	53.5	52.2
1969.6	55°	1853.2	1444.3	425.9	138.1	92.9	63.0	53.5	51.5	49.5	48.2
2181.6	57.5°	1982.4	1459.8	351.1	126.7	80.1	56.8	48.9	47.6	45.3	43.6
2365.0	60°	2041.8	1371.8	246.1	111.6	67.3	50.9	44.0	43.3	40.4	38.1
2538.6	62.5°	2052.7	1208.4	164.1	92.9	56.1	45.3	39.0	38.1	34.1	30.2
2679.7	65°	2008.7	974.8	113.5	72.5	47.9	39.4	33.5	31.5	27.2	23.3
2713.1	67.5°	1869.6	684.4	79.1	52.2	40.7	31.2	26.6	25.9	22.6	19.4
2542.5	70°	1614.6	390.1	52.8	39.0	32.2	21.3	21.0	21.7	18.4	15.7
2077.3	72.5°	1238.0	178.5	32.8	28.5	22.0	14.4	16.7	17.1	14.1	11.8
1296.0	75°	728.7	76.4	20.7	18.4	11.2	9.5	12.1	12.5	9.5	7.5
473.8	77.5°	248.1	28.9	13.1	10.8	5.6	5.2	7.9	7.9	5.2	3.0
95.2	80°	56.4	10.8	6.6	4.3	2.6	2.3	2.6	2.3	1.3	0.3
29.2	82.5°	16.1	4.3	2.6	1.6	1.0	1.0	0.3	0.0	0.0	0.0
10.2	85°	4.6	2.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
3.6	87.5°	2.0	0.3	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>
526.6
481.0
405.9
312.7
229.7
197.9
192.3
186.7
180.8
175.2
169.6
164.1
158.1
150.3
139.8
123.7
106.0
87.6
72.5
61.7
55.8
51.8
47.6
43.3
37.4
28.2
22.0
18.4
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