

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: P939556

Luminaire Tested: **GALN-SB2A-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939556
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-SB2A-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4894 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

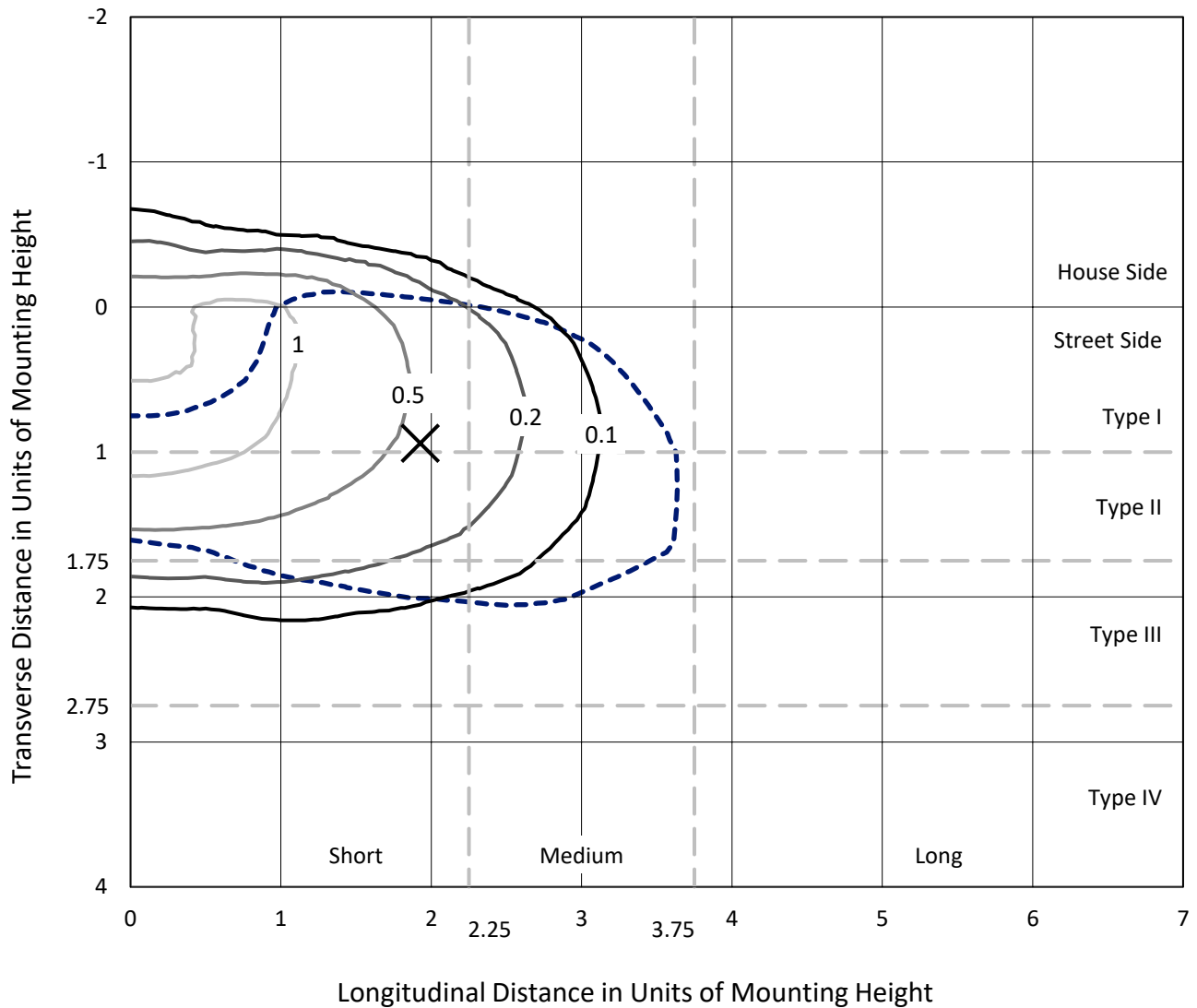
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

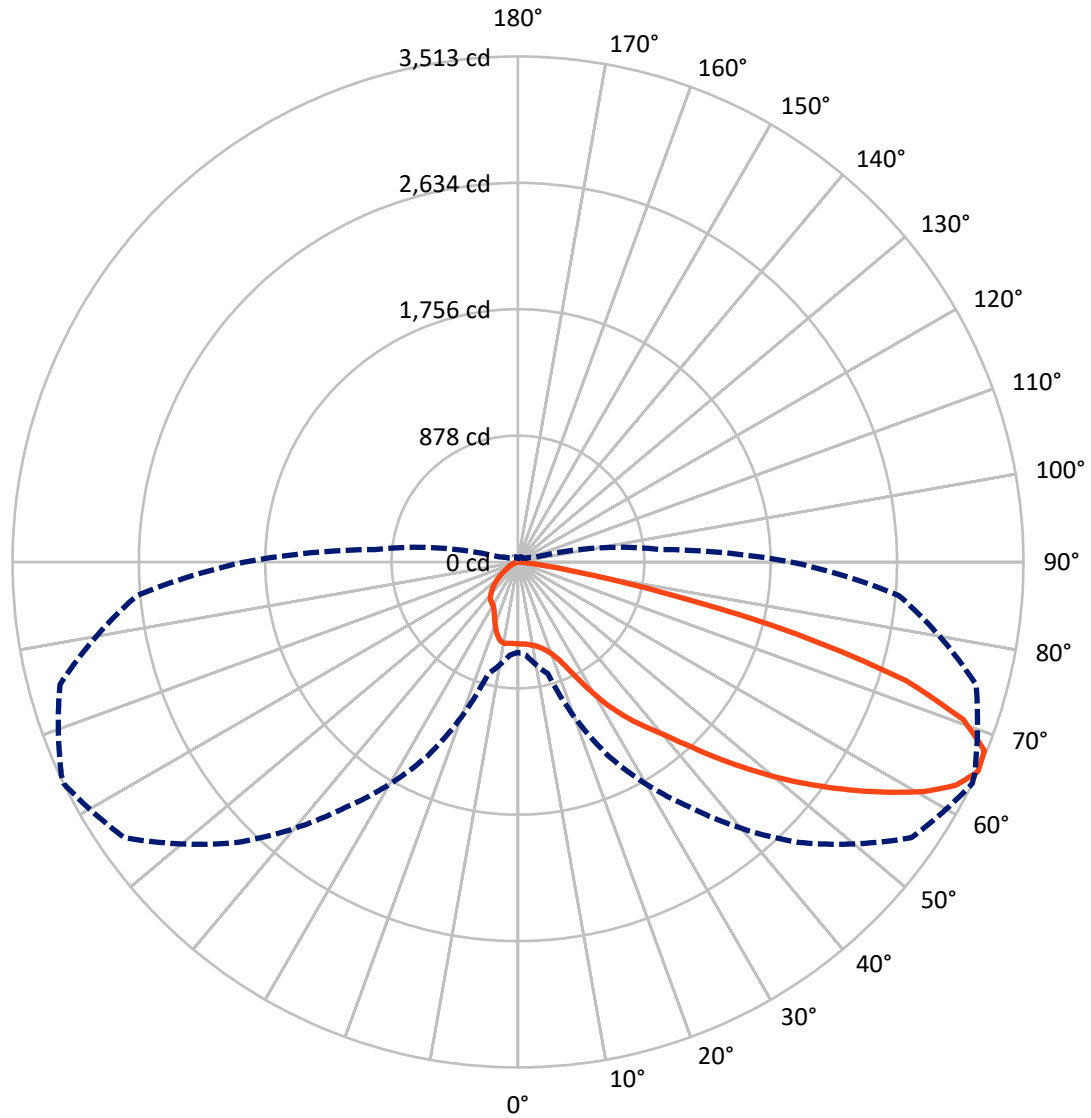
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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
House Side	Lumens	654.5	0.0	654.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4239.5	0.0	4239.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	4894.0	0.0	4894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.1
10°-20°	142.4	2.9
20°-30°	269.9	5.5
30°-40°	546.2	11.2
40°-50°	930.4	19.0
50°-60°	1265.3	25.9
60°-70°	1188.2	24.3
70°-80°	476.0	9.7
80°-90°	23.1	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°	4894.0	100.0
0°-180°	4894.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939556

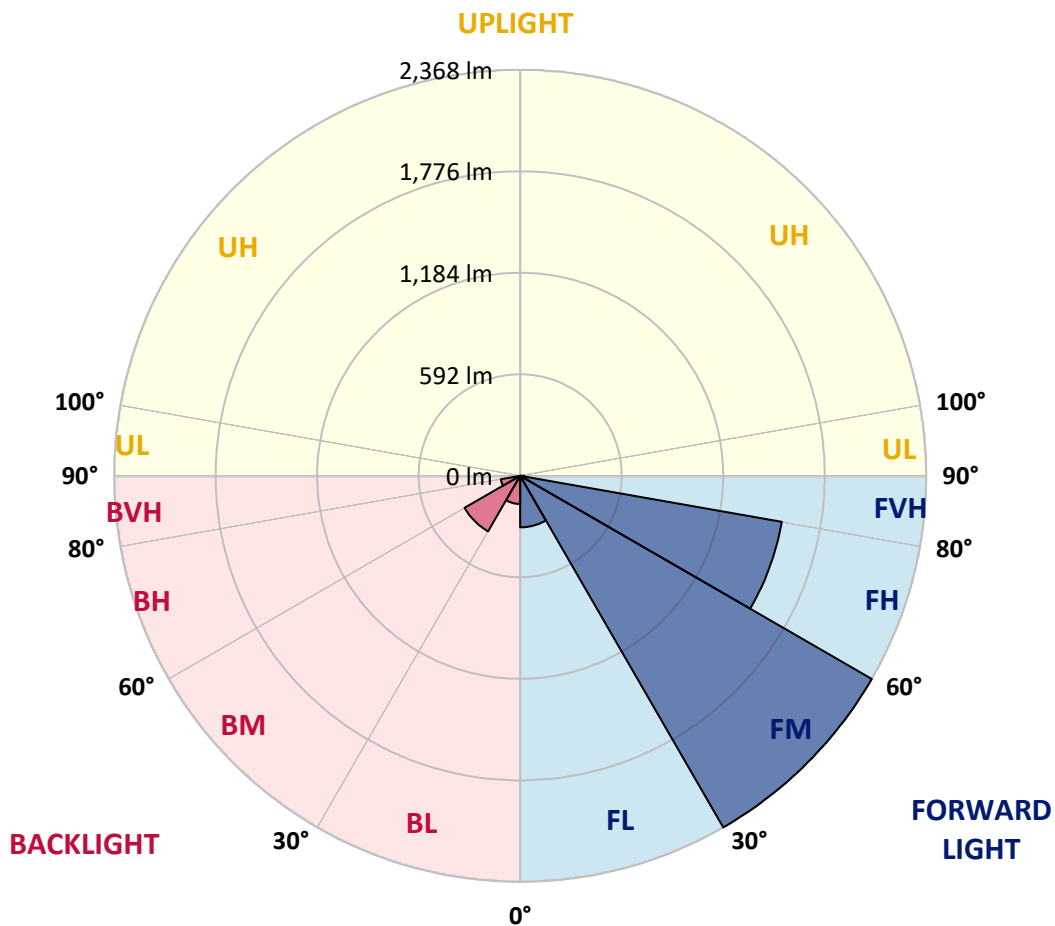
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.5	6.1			
FM (30°-60°)	2367.7	48.4			
FH (60°-80°)	1549.3	31.7			G1/1800
FVH (80°-90°)	21.9	0.4			G1/100
BL (0°-30°)	164.3	3.4	B1/500		
BM (30°-60°)	374.2	7.6	B1/1000		
BH (60°-80°)	114.9	2.3	B1/500		G1/500
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



REPORT NUMBER: P939556

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	567.3	571.2	570.2	569.2	568.9	569.6	569.9	569.6	569.6	569.6
5°	556.4	559.7	559.7	562.0	565.3	569.2	572.2	572.8	573.5	574.5
7.5°	535.8	538.4	540.4	547.9	556.1	566.6	575.5	580.0	580.7	584.3
10°	521.7	524.9	528.2	536.1	547.9	563.6	578.7	589.9	591.5	600.1
12.5°	521.0	524.3	528.5	537.1	550.9	567.6	586.0	602.0	605.0	617.5
15°	527.9	531.8	535.8	546.3	561.0	581.4	601.0	621.1	624.0	641.7
17.5°	542.0	547.2	550.2	560.7	576.4	599.1	625.0	648.0	650.6	671.3
20°	569.9	576.1	577.1	585.6	601.0	625.3	656.2	684.7	688.0	711.6
22.5°	627.6	636.5	628.6	632.9	646.7	670.9	704.4	740.5	745.1	772.0
25°	729.3	741.8	721.5	714.2	720.1	745.4	787.4	833.0	838.3	859.9
27.5°	929.1	913.1	882.2	852.0	834.3	848.7	896.0	952.4	959.0	980.0
30°	1148.6	1134.5	1092.8	1025.9	983.9	981.6	1025.3	1088.2	1095.8	1115.8
32.5°	1368.4	1355.0	1309.7	1227.4	1154.5	1118.4	1148.6	1218.5	1222.4	1235.2
35°	1584.6	1570.9	1525.6	1441.3	1351.7	1269.7	1263.8	1342.5	1343.8	1357.3
37.5°	1802.2	1790.7	1742.4	1659.8	1571.5	1458.3	1403.5	1460.0	1461.6	1474.7
40°	1957.3	1962.3	1929.1	1865.1	1789.4	1665.7	1560.4	1585.0	1575.1	1597.1
42.5°	2090.5	2100.4	2071.5	2039.4	1995.4	1886.5	1754.6	1750.3	1734.6	1746.4
45°	2205.7	2213.9	2188.0	2180.4	2179.5	2103.0	1966.9	1941.3	1919.3	1917.0
47.5°	2248.0	2263.8	2274.9	2300.2	2349.4	2317.2	2186.3	2146.6	2122.0	2104.0
50°	2264.1	2280.8	2318.9	2392.4	2508.8	2522.6	2404.8	2360.2	2330.0	2297.2
52.5°	2242.4	2272.3	2323.5	2447.2	2616.1	2687.3	2614.5	2575.4	2541.0	2487.5
55°	2114.8	2144.7	2249.3	2446.5	2669.6	2802.8	2812.7	2795.3	2756.5	2672.2
57.5°	1845.8	1890.1	2055.8	2363.2	2668.6	2902.2	3006.9	3019.3	2976.0	2855.3
60°	1473.1	1533.1	1735.2	2178.5	2586.3	2956.0	3177.2	3239.5	3193.6	3035.7
62.5°	1027.9	1097.4	1288.7	1889.1	2398.0	2917.3	3301.5	3416.7	3381.9	3197.2
65°	627.0	649.3	803.5	1486.5	2077.7	2755.2	3339.9	3512.5	3501.0	3295.9
67.5°	417.6	436.3	480.6	1019.4	1612.9	2431.4	3248.0	3495.7	3499.0	3279.8
70°	251.6	267.7	296.6	592.8	1045.3	1924.5	2963.6	3282.5	3301.5	3064.9
72.5°	103.7	114.5	140.7	268.7	541.3	1221.5	2359.9	2818.2	2862.5	2577.1
75°	58.7	64.3	82.7	134.8	234.9	569.2	1429.5	2000.6	2065.9	1776.2
77.5°	39.0	41.7	53.5	87.3	132.2	194.2	610.9	1042.3	1167.0	970.1
80°	26.2	28.5	36.7	58.4	86.0	83.3	194.6	386.2	475.1	333.3
82.5°	17.7	18.0	26.2	38.4	54.5	40.4	57.4	120.1	150.9	96.5
85°	10.2	9.8	19.4	22.3	24.3	16.7	17.4	36.1	47.2	40.7
87.5°	1.3	2.0	7.5	5.9	3.3	3.6	3.6	6.2	9.2	9.8
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°
569.2	0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
569.9	2.5°	569.9	569.6	568.6	567.6	565.3	564.0	564.6	564.0	563.6	564.0
574.1	5°	574.1	573.2	570.5	567.3	562.7	557.1	553.5	548.2	543.3	540.4
585.6	7.5°	585.6	584.6	581.0	571.8	557.1	533.8	512.5	493.8	479.7	471.5
604.0	10°	604.0	602.4	596.8	576.4	537.7	486.9	444.6	409.4	386.5	375.7
625.7	12.5°	625.7	623.7	613.8	572.2	501.0	421.6	363.2	324.1	302.8	293.3
650.6	15°	651.2	648.6	629.3	551.8	447.5	349.4	295.9	266.7	253.0	244.4
682.4	17.5°	683.1	678.5	640.7	521.3	389.4	294.3	254.6	232.6	220.5	212.3
724.1	20°	724.4	716.9	649.9	484.9	336.0	259.5	226.7	208.3	199.1	191.9
783.1	22.5°	782.1	771.3	661.1	445.5	298.2	235.6	206.0	192.6	185.0	176.8
865.5	25°	853.7	840.9	674.9	409.1	272.3	214.9	190.9	179.8	170.9	161.4
973.4	27.5°	953.7	930.8	691.3	379.3	250.0	197.2	177.2	164.7	154.5	146.7
1095.8	30°	1065.3	1027.6	705.7	361.2	229.7	180.8	159.1	146.7	137.1	131.6
1205.7	32.5°	1170.9	1119.7	715.2	353.3	211.3	162.1	139.4	126.0	118.8	117.1
1313.3	35°	1270.7	1203.1	714.2	345.8	194.9	143.4	120.1	106.3	100.7	101.7
1429.1	37.5°	1385.5	1292.0	707.3	334.0	181.4	126.3	103.3	91.2	86.3	86.6
1569.9	40°	1519.0	1394.7	703.1	311.7	166.7	110.6	89.6	79.7	76.1	74.8
1718.2	42.5°	1661.4	1494.1	703.7	286.4	148.3	96.5	80.1	71.9	68.6	67.6
1883.2	45°	1804.5	1588.9	704.7	260.2	128.9	85.6	73.2	66.3	64.3	63.0
2050.5	47.5°	1939.0	1669.6	686.3	232.0	109.9	77.4	67.6	63.0	61.4	59.7
2218.5	50°	2064.3	1723.4	642.1	199.1	94.8	70.9	63.3	60.0	58.4	56.8
2370.7	52.5°	2161.7	1731.9	568.9	165.4	84.3	65.9	60.7	57.7	55.8	54.1
2493.8	55°	2205.0	1678.5	464.9	133.9	76.1	61.7	58.1	55.1	52.8	51.2
2590.5	57.5°	2193.9	1565.9	362.5	107.6	68.2	57.4	54.8	52.8	50.2	47.6
2669.0	60°	2139.1	1415.3	273.3	89.6	61.0	52.8	51.2	49.5	45.9	42.0
2699.1	62.5°	2044.3	1226.0	194.9	74.1	53.1	47.6	46.9	45.6	40.4	33.1
2654.5	65°	1899.3	996.1	131.2	61.7	45.6	41.7	42.0	39.7	32.8	24.6
2491.1	67.5°	1687.3	728.3	84.0	50.5	38.1	34.8	35.1	33.8	27.9	21.0
2181.4	70°	1417.3	482.3	54.8	38.4	30.5	26.9	28.9	29.2	23.6	17.1
1674.2	72.5°	1039.0	284.8	38.4	28.5	22.3	18.7	23.6	24.3	19.0	12.8
1007.2	75°	592.2	135.2	28.9	20.7	13.8	13.1	18.4	18.4	13.1	8.5
436.0	77.5°	248.7	56.4	20.3	13.5	7.9	7.5	12.5	11.5	6.6	3.9
106.3	80°	71.9	25.3	10.8	6.6	3.3	3.0	4.9	3.6	1.6	0.7
40.4	82.5°	28.2	11.2	4.3	2.6	1.3	1.3	0.7	0.0	0.0	0.0
23.0	85°	16.7	4.6	2.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
4.9	87.5°	4.3	1.0	0.7	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>
569.2
565.3
541.0
471.8
374.7
292.3
244.7
211.6
190.6
175.5
160.4
145.0
130.6
118.1
101.7
87.9
74.5
67.3
63.0
59.7
56.8
53.8
50.9
47.2
41.3
32.5
24.0
20.0
16.4
12.1
7.9
3.9
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