

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: P939546

Luminaire Tested: **GALN-SB2A-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939546
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-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 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: 5098 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

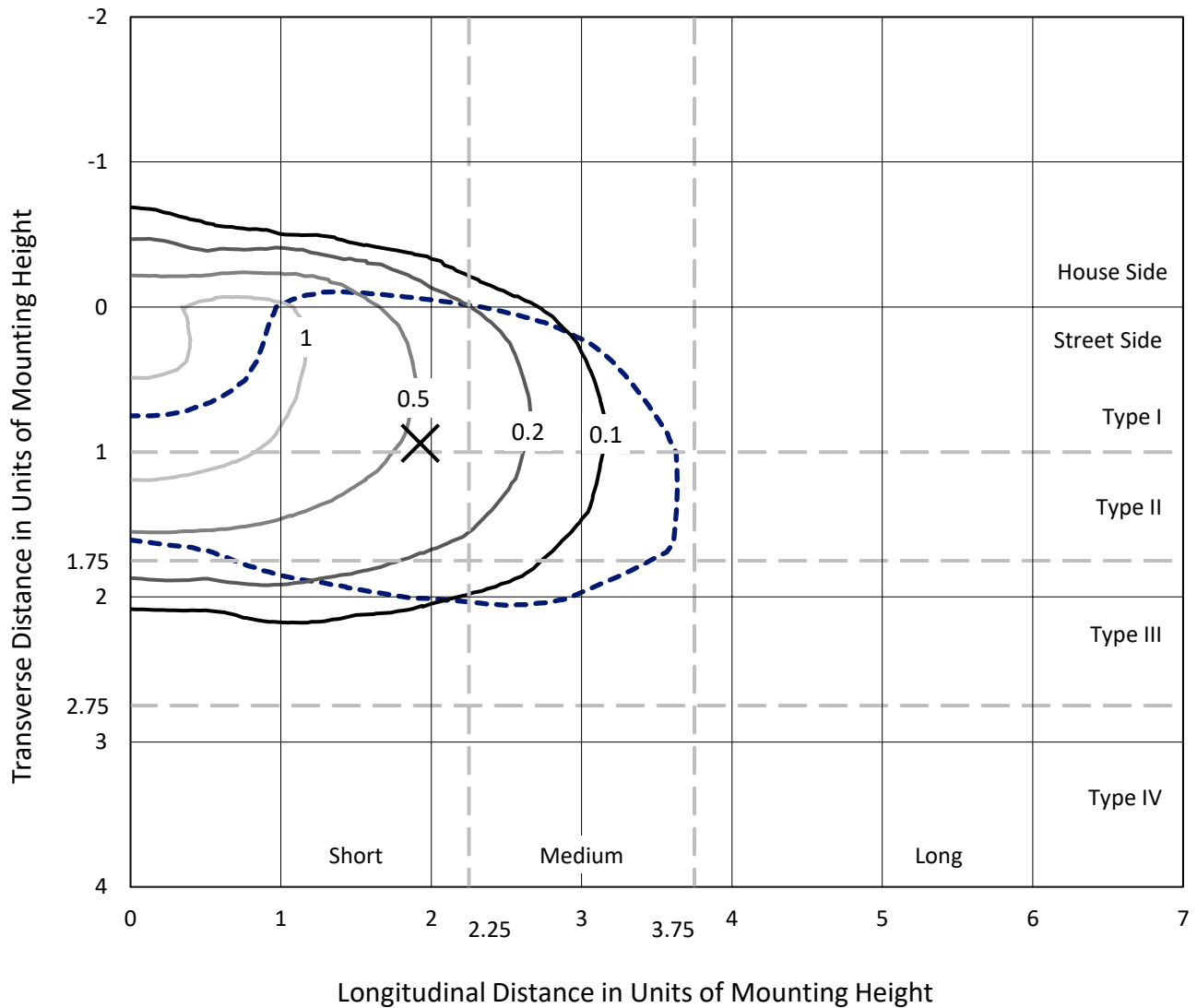
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

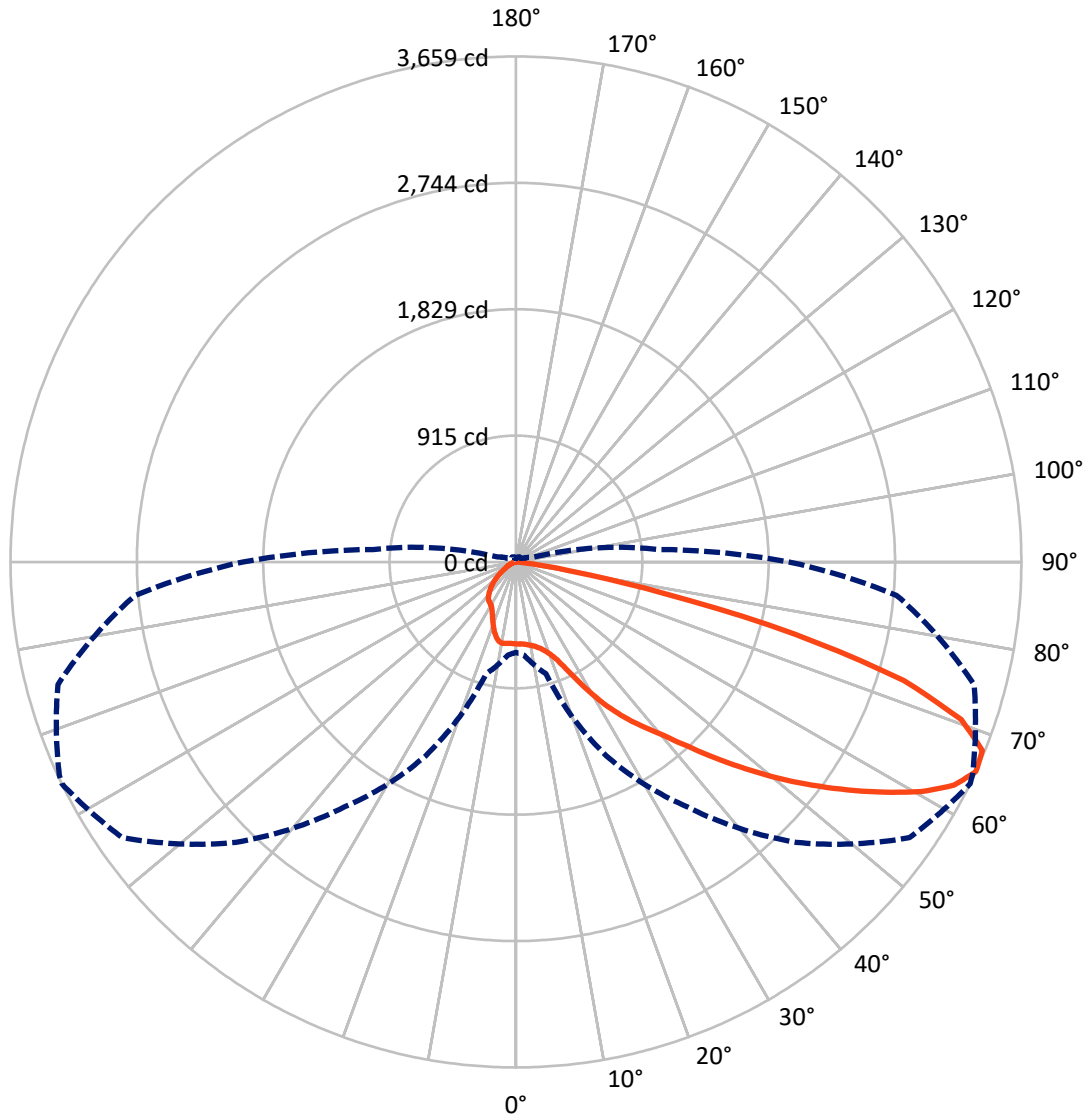
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	681.8	0.0	681.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4416.2	0.0	4416.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	5098.0	0.0	5098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	1.1
10°-20°	148.4	2.9
20°-30°	281.2	5.5
30°-40°	568.9	11.2
40°-50°	969.2	19.0
50°-60°	1318.0	25.9
60°-70°	1237.7	24.3
70°-80°	495.9	9.7
80°-90°	24.0	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°	5098.0	100.0
0°-180°	5098.0	100.0

Coefficient of Utilization



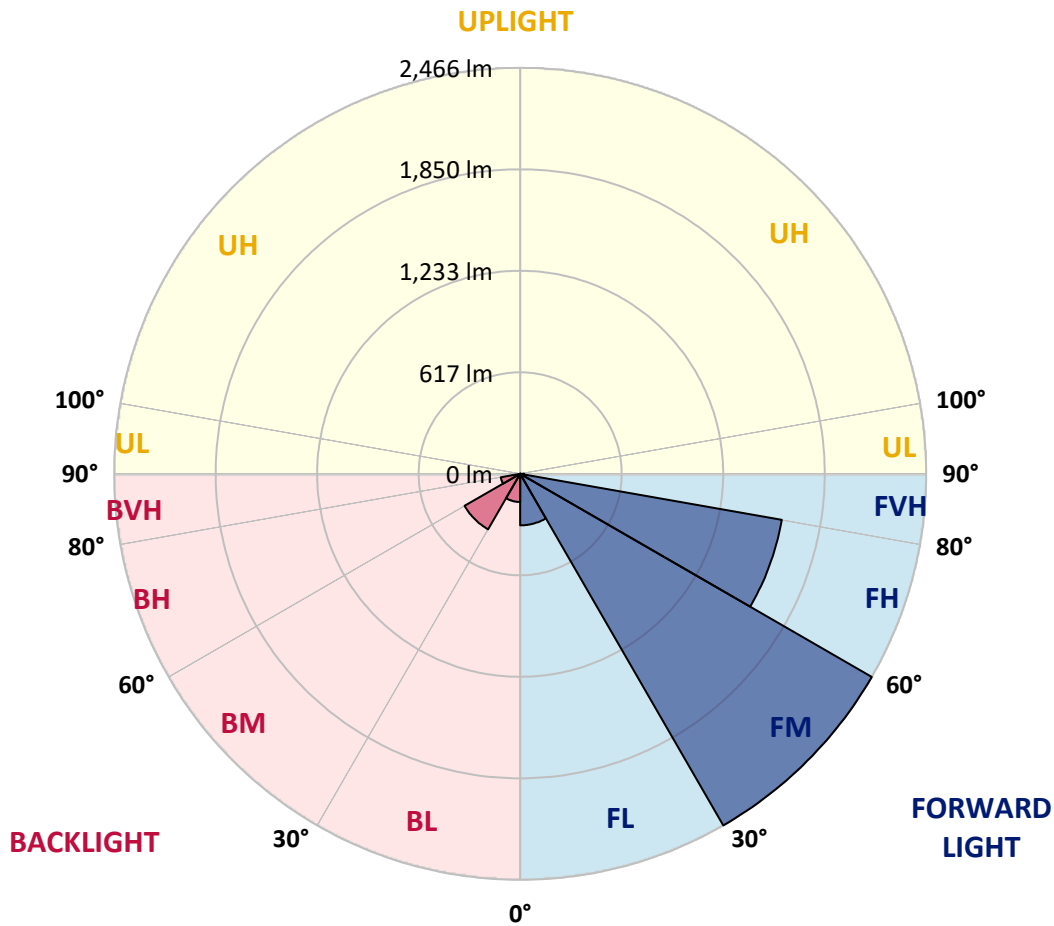
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.1	6.1			
FM (30°-60°)	2466.4	48.4			
FH (60°-80°)	1613.9	31.7			G1/1800
FVH (80°-90°)	22.9	0.4			G1/100
BL (0°-30°)	171.2	3.4	B1/500		
BM (30°-60°)	389.7	7.6	B1/1000		
BH (60°-80°)	119.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
2.5°	590.9	595.0	594.0	593.0	592.6	593.3	593.6	593.3	593.3	593.3
5°	579.6	583.0	583.0	585.4	588.8	593.0	596.0	596.7	597.4	598.4
7.5°	558.1	560.8	562.9	570.7	579.3	590.2	599.4	604.2	604.9	608.7
10°	543.4	546.8	550.2	558.4	570.7	587.1	602.9	614.5	616.2	625.1
12.5°	542.7	546.1	550.6	559.5	573.8	591.2	610.4	627.1	630.2	643.2
15°	549.9	554.0	558.1	569.0	584.4	605.6	626.1	646.9	650.0	668.5
17.5°	564.6	570.1	573.1	584.1	600.5	624.1	651.0	675.0	677.7	699.2
20°	593.6	600.1	601.2	610.0	626.1	651.4	683.5	713.2	716.7	741.3
22.5°	653.8	663.0	654.8	659.3	673.6	698.9	733.8	771.3	776.1	804.2
25°	759.7	772.7	751.5	744.0	750.2	776.5	820.2	867.7	873.2	895.7
27.5°	967.9	951.1	919.0	887.5	869.1	884.1	933.3	992.1	999.0	1020.8
30°	1196.5	1181.8	1138.4	1068.7	1024.9	1022.5	1068.0	1133.6	1141.5	1162.3
32.5°	1425.5	1411.5	1364.3	1278.5	1202.6	1165.1	1196.5	1269.3	1273.4	1286.7
35°	1650.7	1636.3	1589.2	1501.3	1408.0	1322.6	1316.5	1398.5	1399.8	1413.9
37.5°	1877.3	1865.3	1815.1	1729.0	1637.0	1519.1	1462.0	1520.8	1522.5	1536.2
40°	2038.9	2044.1	2009.5	1942.9	1863.9	1735.1	1625.4	1651.0	1640.8	1663.7
42.5°	2177.7	2187.9	2157.9	2124.4	2078.6	1965.1	1827.7	1823.3	1806.9	1819.2
45°	2297.6	2306.2	2279.2	2271.3	2270.3	2190.7	2048.8	2022.2	1999.3	1996.9
47.5°	2341.7	2358.1	2369.8	2396.1	2447.3	2413.8	2277.5	2236.1	2210.5	2191.7
50°	2358.5	2375.9	2415.5	2492.1	2613.4	2627.8	2505.1	2458.6	2427.2	2393.0
52.5°	2335.9	2367.0	2420.3	2549.2	2725.2	2799.3	2723.5	2682.8	2646.9	2591.2
55°	2203.0	2234.1	2343.1	2548.5	2780.9	2919.6	2929.9	2911.8	2871.5	2783.6
57.5°	1922.7	1968.9	2141.5	2461.7	2779.9	3023.2	3132.2	3145.2	3100.1	2974.3
60°	1534.5	1597.0	1807.6	2269.3	2694.1	3079.2	3309.6	3374.5	3326.7	3162.3
62.5°	1070.7	1143.2	1342.4	1967.8	2497.9	3038.9	3439.1	3559.1	3522.8	3330.4
65°	653.1	676.3	837.0	1548.5	2164.4	2870.1	3479.1	3658.9	3646.9	3433.3
67.5°	435.1	454.5	500.7	1061.8	1680.1	2532.8	3383.4	3641.4	3644.9	3416.6
70°	262.1	278.9	308.9	617.6	1088.8	2004.8	3087.1	3419.3	3439.1	3192.7
72.5°	108.0	119.3	146.6	279.9	563.9	1272.4	2458.3	2935.7	2981.8	2684.5
75°	61.2	67.0	86.1	140.5	244.7	593.0	1489.0	2084.0	2152.1	1850.3
77.5°	40.7	43.4	55.7	90.9	137.7	202.3	636.4	1085.8	1215.6	1010.6
80°	27.3	29.7	38.3	60.8	89.5	86.8	202.7	402.2	494.9	347.2
82.5°	18.5	18.8	27.3	40.0	56.7	42.0	59.8	125.1	157.2	100.5
85°	10.6	10.3	20.2	23.2	25.3	17.4	18.1	37.6	49.2	42.4
87.5°	1.4	2.1	7.9	6.2	3.4	3.8	3.8	6.5	9.6	10.3
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°
593.0	0°	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
593.6	2.5°	593.6	593.3	592.3	591.2	588.8	587.5	588.2	587.5	587.1	587.5
598.1	5°	598.1	597.1	594.3	590.9	586.1	580.3	576.5	571.1	566.0	562.9
610.0	7.5°	610.0	609.0	605.3	595.7	580.3	556.0	533.8	514.3	499.7	491.1
629.2	10°	629.2	627.5	621.7	600.5	560.1	507.2	463.1	426.5	402.6	391.3
651.7	12.5°	651.7	649.7	639.4	596.0	521.9	439.2	378.3	337.7	315.4	305.5
677.7	15°	678.4	675.7	655.5	574.8	466.2	364.0	308.3	277.8	263.5	254.6
710.9	17.5°	711.5	706.8	667.5	543.1	405.7	306.6	265.2	242.3	229.7	221.1
754.3	20°	754.6	746.7	677.0	505.1	350.0	270.3	236.2	217.0	207.4	199.9
815.8	22.5°	814.8	803.5	688.6	464.1	310.7	245.4	214.6	200.6	192.8	184.2
901.6	25°	889.3	875.9	703.0	426.2	283.7	223.9	198.9	187.3	178.1	168.1
1014.0	27.5°	993.5	969.6	720.1	395.1	260.4	205.4	184.5	171.6	161.0	152.8
1141.5	30°	1109.7	1070.4	735.1	376.3	239.2	188.3	165.8	152.8	142.9	137.0
1256.0	32.5°	1219.7	1166.4	745.0	368.1	220.1	168.8	145.2	131.2	123.7	122.0
1368.1	35°	1323.6	1253.2	744.0	360.2	203.0	149.3	125.1	110.7	104.9	105.9
1488.7	37.5°	1443.2	1345.8	736.8	347.9	189.0	131.6	107.7	95.0	89.9	90.2
1635.3	40°	1582.3	1452.8	732.4	324.7	173.6	115.2	93.3	83.0	79.3	77.9
1789.8	42.5°	1730.7	1556.4	733.1	298.4	154.5	100.5	83.4	74.8	71.4	70.4
1961.7	45°	1879.7	1655.1	734.1	271.0	134.3	89.2	76.2	69.0	67.0	65.6
2136.0	47.5°	2019.8	1739.2	715.0	241.6	114.5	80.7	70.4	65.6	63.9	62.2
2311.0	50°	2150.3	1795.3	668.8	207.4	98.8	73.8	66.0	62.5	60.8	59.1
2469.5	52.5°	2251.8	1804.1	592.6	172.2	87.8	68.7	63.2	60.1	58.1	56.4
2597.7	55°	2297.0	1748.4	484.3	139.4	79.3	64.3	60.5	57.4	55.0	53.3
2698.5	57.5°	2285.3	1631.2	377.6	112.1	71.1	59.8	57.1	55.0	52.3	49.6
2780.2	60°	2228.3	1474.3	284.7	93.3	63.6	55.0	53.3	51.6	47.8	43.7
2811.6	62.5°	2129.5	1277.2	203.0	77.2	55.4	49.6	48.9	47.5	42.0	34.5
2765.2	65°	1978.4	1037.6	136.7	64.3	47.5	43.4	43.7	41.4	34.2	25.6
2595.0	67.5°	1757.7	758.7	87.5	52.6	39.6	36.2	36.6	35.2	29.0	21.9
2272.3	70°	1476.4	502.4	57.1	40.0	31.8	28.0	30.1	30.4	24.6	17.8
1744.0	72.5°	1082.3	296.6	40.0	29.7	23.2	19.5	24.6	25.3	19.8	13.3
1049.2	75°	616.9	140.8	30.1	21.5	14.4	13.7	19.1	19.1	13.7	8.9
454.2	77.5°	259.1	58.8	21.2	14.0	8.2	7.9	13.0	12.0	6.8	4.1
110.7	80°	74.8	26.3	11.3	6.8	3.4	3.1	5.1	3.8	1.7	0.7
42.0	82.5°	29.4	11.6	4.4	2.7	1.4	1.4	0.7	0.0	0.0	0.0
23.9	85°	17.4	4.8	2.1	1.0	0.3	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	4.4	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>
593.0
588.8
563.6
491.4
390.3
304.5
255.0
220.4
198.6
182.8
167.1
151.1
136.0
123.0
105.9
91.6
77.6
70.1
65.6
62.2
59.1
56.0
53.0
49.2
43.1
33.8
24.9
20.8
17.1
12.6
8.2
4.1
0.7
0.0
0.0
0.0
0.0

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