

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: P939386

Luminaire Tested: **GALN-SB1D-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939386
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-SB1D-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5554 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

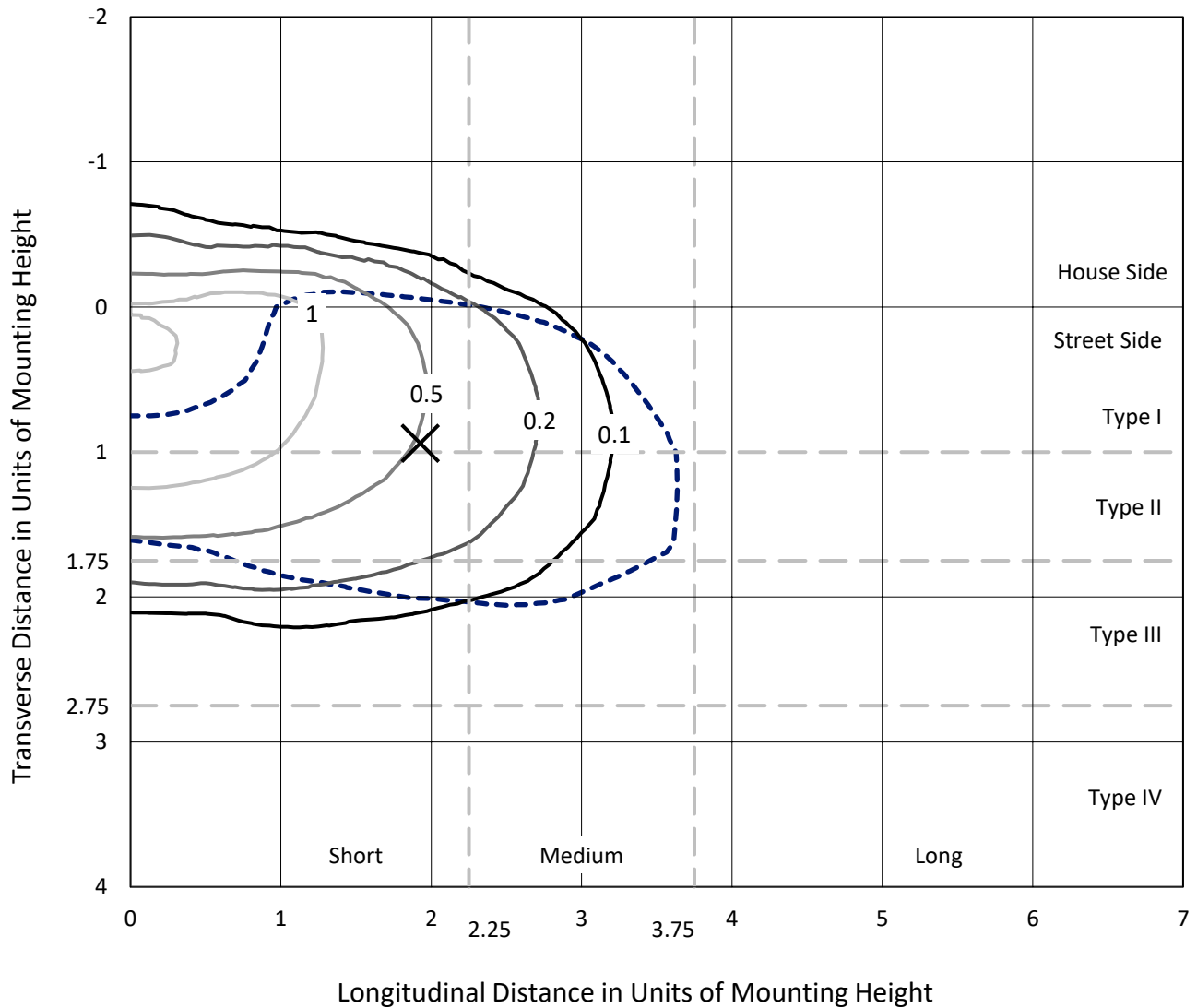
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

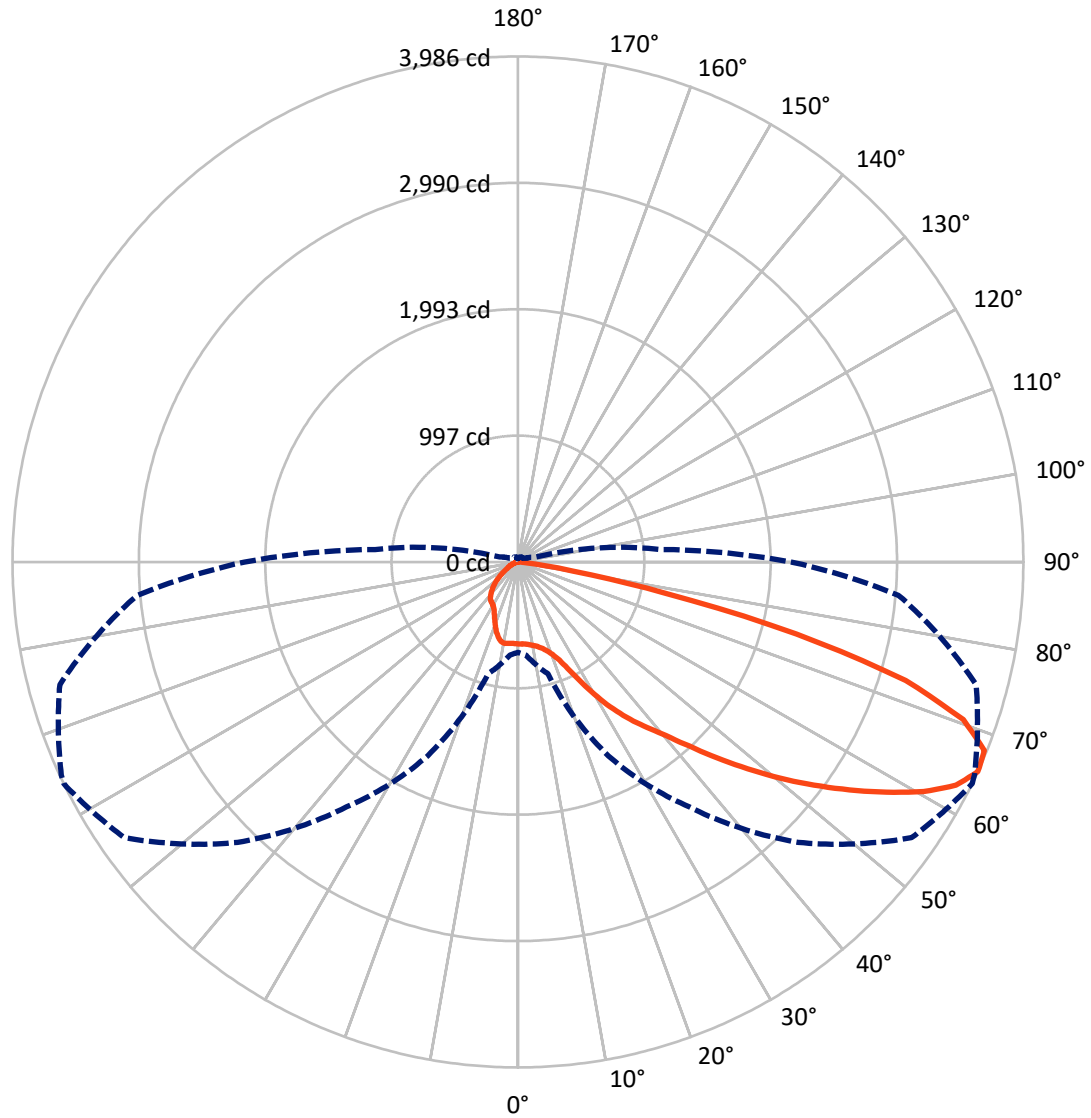
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	742.7	0.0	742.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4811.3	0.0	4811.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	5554.0	0.0	5554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.1
10°-20°	161.7	2.9
20°-30°	306.3	5.5
30°-40°	619.8	11.2
40°-50°	1055.9	19.0
50°-60°	1435.9	25.9
60°-70°	1348.4	24.3
70°-80°	540.2	9.7
80°-90°	26.2	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°	5554.0	100.0
0°-180°	5554.0	100.0

Coefficient of Utilization



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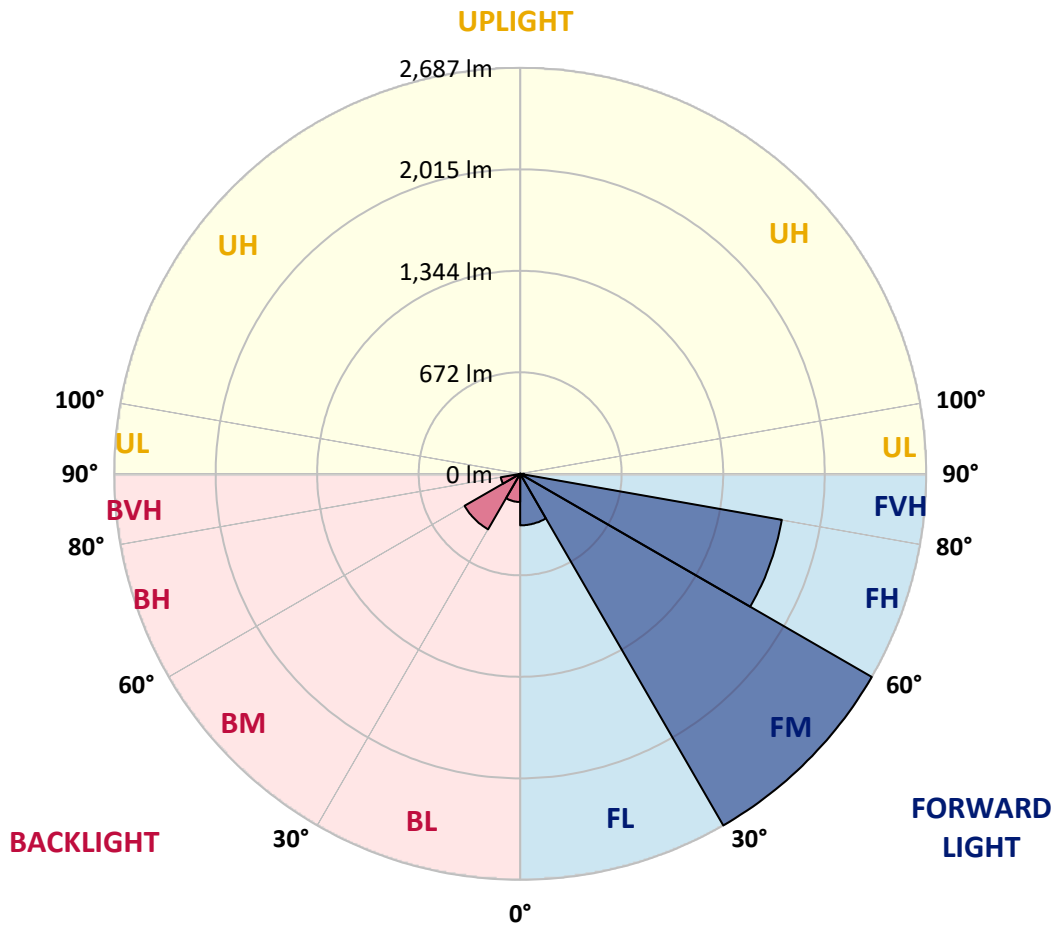
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.1	6.1			
FM (30°-60°)	2687.0	48.4			
FH (60°-80°)	1758.3	31.7			G1/1800
FVH (80°-90°)	24.9	0.4			G1/100
BL (0°-30°)	186.5	3.4	B1/500		
BM (30°-60°)	424.6	7.6	B1/1000		
BH (60°-80°)	130.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
2.5°	643.8	648.2	647.1	646.0	645.6	646.4	646.7	646.4	646.4	646.4
5°	631.5	635.2	635.2	637.8	641.5	646.0	649.3	650.1	650.8	651.9
7.5°	608.0	611.0	613.2	621.8	631.1	643.0	653.1	658.3	659.0	663.1
10°	592.0	595.7	599.4	608.4	621.8	639.7	656.8	669.4	671.3	681.0
12.5°	591.3	595.0	599.8	609.5	625.1	644.1	665.0	683.2	686.6	700.7
15°	599.1	603.5	608.0	619.9	636.7	659.8	682.1	704.8	708.2	728.3
17.5°	615.1	621.0	624.4	636.3	654.2	679.9	709.3	735.3	738.3	761.8
20°	646.7	653.8	654.9	664.6	682.1	709.7	744.7	777.0	780.8	807.6
22.5°	712.3	722.3	713.4	718.2	733.9	761.4	799.4	840.3	845.6	876.1
25°	827.7	841.8	818.7	810.6	817.3	845.9	893.6	945.3	951.3	975.9
27.5°	1054.4	1036.2	1001.2	966.9	946.8	963.2	1016.8	1080.9	1088.3	1112.1
30°	1303.5	1287.5	1240.2	1164.3	1116.6	1114.0	1163.5	1235.0	1243.6	1266.3
32.5°	1553.0	1537.7	1486.3	1392.9	1310.2	1269.3	1303.5	1382.8	1387.3	1401.8
35°	1798.3	1782.7	1731.3	1635.6	1534.0	1440.9	1434.2	1523.6	1525.1	1540.3
37.5°	2045.2	2032.2	1977.4	1883.6	1783.4	1655.0	1592.8	1656.9	1658.7	1673.6
40°	2221.3	2226.9	2189.3	2116.7	2030.7	1890.3	1770.8	1798.7	1787.5	1812.5
42.5°	2372.5	2383.6	2350.9	2314.4	2264.5	2140.9	1991.2	1986.4	1968.5	1981.9
45°	2503.2	2512.5	2483.1	2474.5	2473.4	2386.6	2232.1	2203.1	2178.1	2175.5
47.5°	2551.2	2569.1	2581.7	2610.4	2666.2	2629.7	2481.2	2436.1	2408.2	2387.7
50°	2569.4	2588.4	2631.6	2715.0	2847.2	2862.8	2729.2	2678.5	2644.3	2607.0
52.5°	2544.9	2578.7	2636.8	2777.2	2968.9	3049.7	2967.1	2922.8	2883.7	2823.0
55°	2400.0	2433.9	2552.7	2776.4	3029.6	3180.8	3192.0	3172.2	3128.3	3032.6
57.5°	2094.7	2145.0	2333.0	2681.9	3028.5	3293.6	3412.4	3426.5	3377.4	3240.4
60°	1671.7	1739.9	1969.2	2472.3	2935.1	3354.7	3605.6	3676.4	3624.2	3445.1
62.5°	1166.5	1245.4	1462.5	2143.9	2721.3	3310.7	3746.7	3877.4	3837.9	3628.3
65°	711.5	736.8	911.8	1687.0	2357.9	3126.8	3790.3	3986.1	3973.1	3740.4
67.5°	474.0	495.2	545.5	1156.8	1830.4	2759.3	3686.0	3967.1	3970.9	3722.2
70°	285.6	303.8	336.6	672.8	1186.2	2184.1	3363.2	3725.1	3746.7	3478.3
72.5°	117.7	129.9	159.7	304.9	614.3	1386.2	2678.2	3198.3	3248.6	2924.6
75°	66.6	73.0	93.8	153.0	266.6	646.0	1622.2	2270.5	2344.5	2015.8
77.5°	44.3	47.3	60.7	99.0	150.0	220.4	693.3	1182.9	1324.4	1101.0
80°	29.8	32.4	41.7	66.3	97.5	94.6	220.8	438.2	539.1	378.3
82.5°	20.1	20.5	29.8	43.6	61.8	45.8	65.2	136.3	171.3	109.5
85°	11.5	11.2	22.0	25.3	27.6	19.0	19.7	41.0	53.6	46.2
87.5°	1.5	2.2	8.6	6.7	3.7	4.1	4.1	7.1	10.4	11.2
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°
646.0	0°	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
646.7	2.5°	646.7	646.4	645.2	644.1	641.5	640.0	640.8	640.0	639.7	640.0
651.6	5°	651.6	650.5	647.5	643.8	638.5	632.2	628.1	622.2	616.6	613.2
664.6	7.5°	664.6	663.5	659.4	649.0	632.2	605.8	581.6	560.4	544.3	535.0
685.5	10°	685.5	683.6	677.3	654.2	610.2	552.5	504.5	464.7	438.6	426.3
710.0	12.5°	710.0	707.8	696.6	649.3	568.5	478.4	412.2	367.9	343.7	332.9
738.3	15°	739.1	736.1	714.1	626.3	507.9	396.5	335.8	302.7	287.1	277.4
774.4	17.5°	775.2	770.0	727.2	591.6	442.0	334.0	288.9	264.0	250.2	240.9
821.7	20°	822.1	813.5	737.6	550.3	381.3	294.5	257.3	236.4	226.0	217.8
888.7	22.5°	887.6	875.3	750.2	505.6	338.4	267.3	233.8	218.6	210.0	200.7
982.2	25°	968.8	954.3	765.9	464.3	309.0	243.9	216.7	204.0	194.0	183.2
1104.7	27.5°	1082.4	1056.3	784.5	430.4	283.7	223.8	201.1	186.9	175.4	166.4
1243.6	30°	1208.9	1166.1	800.9	409.9	260.6	205.2	180.6	166.4	155.6	149.3
1368.3	32.5°	1328.8	1270.8	811.7	401.0	239.8	183.9	158.2	143.0	134.8	132.9
1490.4	35°	1442.0	1365.3	810.6	392.4	221.2	162.7	136.3	120.6	114.3	115.4
1621.9	37.5°	1572.3	1466.2	802.7	379.0	205.9	143.3	117.3	103.5	97.9	98.3
1781.6	40°	1723.9	1582.8	797.9	353.7	189.1	125.5	101.6	90.5	86.4	84.9
1949.9	42.5°	1885.5	1695.6	798.6	325.0	168.3	109.5	90.8	81.5	77.8	76.7
2137.2	45°	2047.8	1803.2	799.8	295.3	146.3	97.2	83.0	75.2	73.0	71.5
2327.0	47.5°	2200.5	1894.8	778.9	263.2	124.7	87.9	76.7	71.5	69.6	67.8
2517.7	50°	2342.7	1955.8	728.6	226.0	107.6	80.4	71.9	68.1	66.3	64.4
2690.4	52.5°	2453.3	1965.5	645.6	187.7	95.7	74.8	68.9	65.5	63.3	61.4
2830.1	55°	2502.4	1904.8	527.6	151.9	86.4	70.0	65.9	62.6	59.9	58.1
2939.9	57.5°	2489.8	1777.1	411.4	122.1	77.4	65.2	62.2	59.9	57.0	54.0
3028.9	60°	2427.6	1606.2	310.1	101.6	69.3	59.9	58.1	56.2	52.1	47.7
3063.1	62.5°	2320.0	1391.4	221.2	84.1	60.3	54.0	53.2	51.8	45.8	37.6
3012.5	65°	2155.4	1130.4	148.9	70.0	51.8	47.3	47.7	45.1	37.2	27.9
2827.1	67.5°	1914.9	826.6	95.3	57.3	43.2	39.5	39.8	38.3	31.6	23.8
2475.6	70°	1608.5	547.3	62.2	43.6	34.6	30.5	32.8	33.1	26.8	19.4
1900.0	72.5°	1179.2	323.2	43.6	32.4	25.3	21.2	26.8	27.6	21.6	14.5
1143.0	75°	672.1	153.4	32.8	23.5	15.6	14.9	20.9	20.9	14.9	9.7
494.8	77.5°	282.2	64.0	23.1	15.3	8.9	8.6	14.1	13.0	7.4	4.5
120.6	80°	81.5	28.7	12.3	7.4	3.7	3.4	5.6	4.1	1.9	0.7
45.8	82.5°	32.0	12.7	4.8	3.0	1.5	1.5	0.7	0.0	0.0	0.0
26.1	85°	19.0	5.2	2.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0
5.6	87.5°	4.8	1.1	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>
646.0
641.5
614.0
535.4
425.2
331.7
277.8
240.2
216.3
199.2
182.1
164.6
148.2
134.0
115.4
99.8
84.5
76.3
71.5
67.8
64.4
61.1
57.7
53.6
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