

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: P946254

Luminaire Tested: **GALN-SB1D-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5895 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

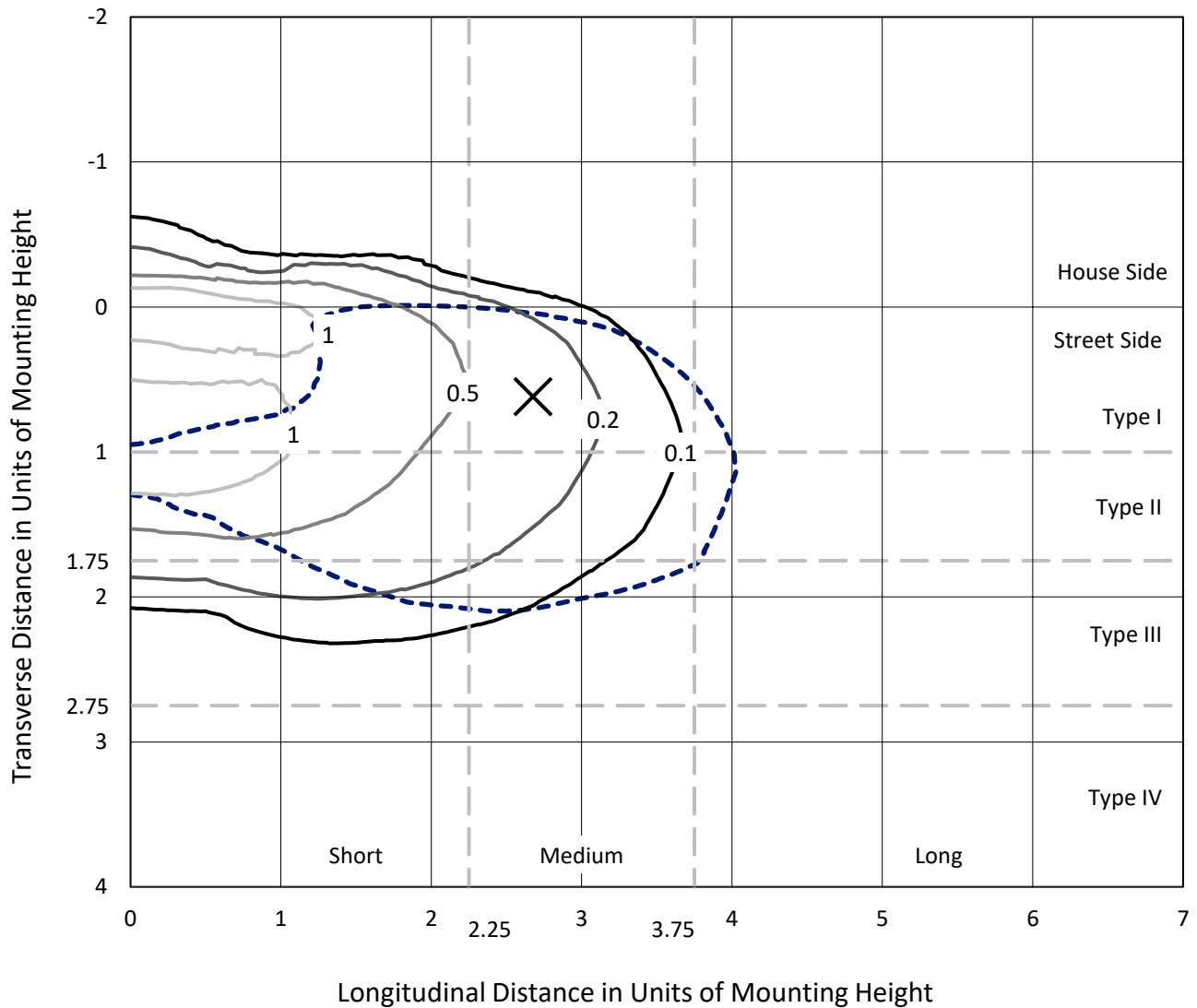
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

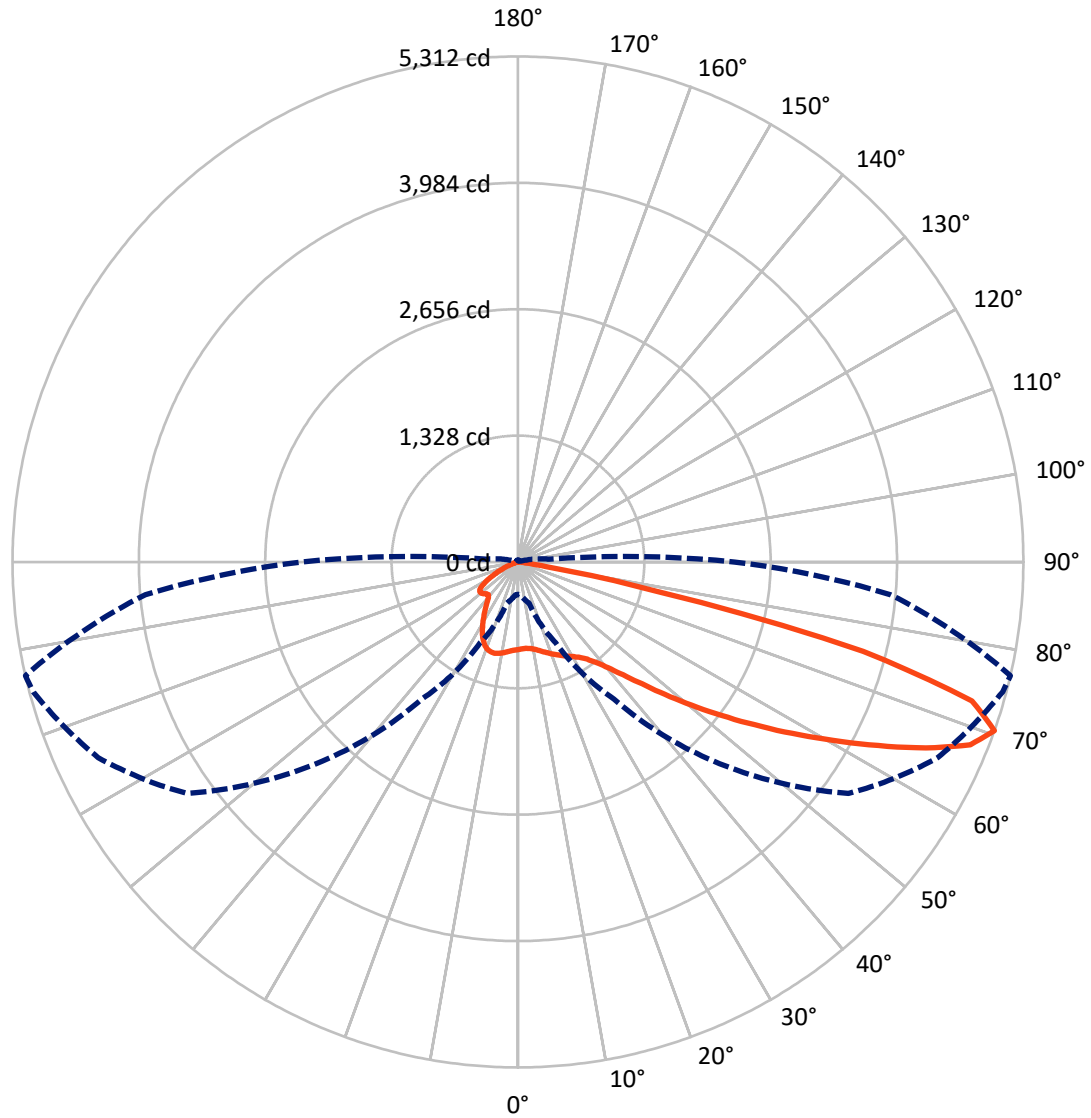
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.4	0.0	621.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5273.6	0.0	5273.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	5895.0	0.0	5895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.3
10°-20°	188.1	3.2
20°-30°	291.0	4.9
30°-40°	528.0	9.0
40°-50°	996.6	16.9
50°-60°	1440.1	24.4
60°-70°	1532.9	26.0
70°-80°	812.3	13.8
80°-90°	26.7	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°	5895.0	100.0
0°-180°	5895.0	100.0

Coefficient of Utilization



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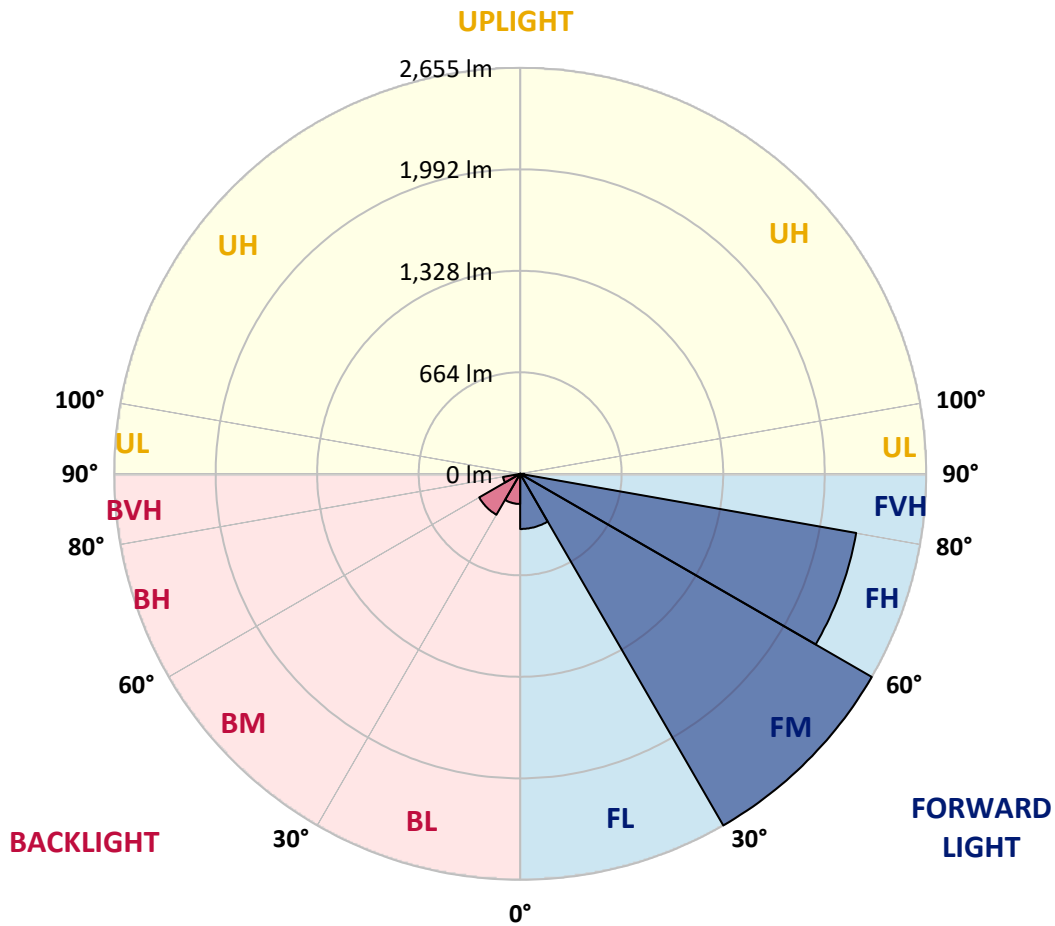
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.9	6.1			
FM (30°-60°)	2655.4	45.0			
FH (60°-80°)	2231.3	37.9			G2/5000
FVH (80°-90°)	26.0	0.4			G1/100
BL (0°-30°)	197.4	3.3	B1/500		
BM (30°-60°)	309.3	5.2	B1/1000		
BH (60°-80°)	113.9	1.9	B1/500		G1/500
BVH (80°-90°)	0.7	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	919.5	919.5	919.5	919.5	919.5	919.5	919.5	919.5	919.5	919.5
2.5°	863.3	871.1	870.0	875.2	877.1	884.5	892.0	902.0	913.2	912.8
5°	814.5	822.4	824.2	831.3	840.2	851.8	867.0	887.1	908.0	911.3
7.5°	756.8	765.0	769.9	784.0	800.4	824.2	849.2	878.6	913.2	918.0
10°	699.1	706.6	712.9	733.0	759.1	794.4	835.0	877.4	924.0	931.1
12.5°	663.4	670.5	677.5	695.0	727.4	770.6	825.7	882.7	941.8	951.9
15°	650.7	657.1	662.6	678.3	708.4	757.6	823.8	893.5	964.6	978.0
17.5°	652.6	655.9	659.7	671.6	701.0	751.6	827.2	912.1	991.4	1003.3
20°	663.4	665.3	665.6	673.8	699.9	750.9	833.9	929.9	1016.7	1032.7
22.5°	677.2	677.9	677.2	682.7	706.9	756.5	842.8	951.5	1045.0	1059.9
25°	741.6	727.4	709.6	698.8	718.9	767.3	856.2	980.6	1075.9	1090.4
27.5°	941.5	900.9	836.9	765.0	743.4	782.9	874.8	1010.0	1107.1	1120.2
30°	1266.1	1212.9	1104.2	942.2	822.4	815.6	899.0	1039.4	1140.3	1154.4
32.5°	1591.5	1578.4	1453.0	1228.9	999.9	888.6	939.2	1079.2	1184.2	1195.4
35°	1920.6	1894.1	1791.4	1569.9	1273.5	1037.2	1006.3	1131.3	1241.9	1254.6
37.5°	2172.6	2156.6	2092.9	1910.5	1598.2	1266.5	1120.9	1212.1	1325.7	1339.8
40°	2395.2	2387.8	2366.2	2245.9	1961.1	1566.5	1299.2	1337.2	1441.8	1458.6
42.5°	2570.2	2587.7	2600.0	2566.4	2335.3	1909.0	1539.0	1512.9	1603.8	1620.9
45°	2749.2	2755.2	2804.7	2853.1	2706.8	2267.1	1809.2	1718.8	1805.2	1826.4
47.5°	2864.3	2888.1	2975.2	3060.5	3019.1	2622.3	2099.6	1961.9	2038.6	2078.4
50°	2872.8	2917.9	3037.7	3186.3	3246.6	2960.3	2415.3	2238.8	2320.4	2364.3
52.5°	2730.2	2800.2	2986.0	3203.4	3369.4	3246.6	2741.8	2515.8	2620.4	2677.8
55°	2093.3	2184.9	2791.3	3110.3	3374.3	3463.6	3059.7	2804.3	2954.7	3019.5
57.5°	1823.8	1869.9	2194.5	2948.8	3284.6	3551.1	3347.1	3079.1	3318.4	3398.8
60°	1517.4	1578.1	1840.5	2684.5	3162.8	3559.7	3601.0	3433.5	3712.7	3803.1
62.5°	1031.2	1097.1	1358.1	2230.3	2996.4	3555.6	3809.1	3798.3	4150.8	4248.0
65°	638.8	680.1	852.1	1821.2	2763.8	3560.0	4026.9	4241.3	4613.2	4711.9
67.5°	504.8	523.8	613.5	1398.3	2362.8	3459.5	4244.3	4657.9	5048.4	5126.6
70°	339.1	350.7	446.4	937.4	1757.9	2995.7	4240.2	4867.1	5272.5	5311.6
72.5°	178.7	187.6	261.0	434.1	1061.7	2129.4	3574.2	4616.9	5049.5	4990.7
75°	89.3	104.2	175.7	220.4	453.4	1187.5	2219.5	3640.1	3974.4	3746.6
77.5°	67.8	81.9	145.2	145.2	157.8	399.8	940.0	1985.3	1831.2	1524.8
80°	43.2	55.8	126.9	109.8	65.9	101.6	245.0	556.2	389.0	296.0
82.5°	25.3	36.5	105.7	72.6	36.9	37.6	69.2	118.4	100.9	78.5
85°	10.1	23.8	72.6	28.7	14.5	9.3	20.8	25.3	20.8	15.6
87.5°	0.0	5.6	12.7	0.0	1.1	0.7	1.5	1.9	1.9	1.5
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°
919.5	0°	919.5	919.5	919.5	919.5	919.5	919.5	919.5	919.5	919.5	919.5
920.3	2.5°	923.6	924.4	926.6	927.0	921.7	915.0	912.4	911.3	906.9	906.5
926.2	5°	934.8	938.1	934.8	925.1	902.0	869.6	845.1	825.0	806.7	801.1
946.7	7.5°	957.1	960.5	950.4	912.4	854.4	790.0	731.9	690.9	654.1	640.3
971.6	10°	989.1	993.6	962.0	885.3	782.5	679.0	580.7	511.5	457.5	435.6
1005.5	12.5°	1029.3	1031.2	968.3	843.9	689.1	541.3	402.1	328.0	279.9	262.1
1046.5	15°	1073.6	1071.0	969.0	787.7	561.8	382.7	262.5	215.5	196.2	190.2
1087.4	17.5°	1120.2	1109.4	954.1	706.6	422.2	261.7	194.7	183.5	180.2	178.7
1128.0	20°	1166.0	1141.8	927.0	600.5	303.0	195.4	176.8	173.5	171.6	170.9
1168.9	22.5°	1207.7	1166.3	880.4	477.3	220.0	172.7	167.2	164.2	160.8	159.3
1208.8	25°	1248.2	1180.5	814.9	362.2	176.1	161.6	157.1	151.5	147.0	145.2
1251.6	27.5°	1287.7	1189.4	733.0	268.0	157.1	151.1	143.0	135.1	131.8	131.0
1297.4	30°	1329.8	1192.4	639.9	199.9	145.6	138.1	126.2	117.3	115.4	115.8
1359.2	32.5°	1381.1	1196.9	546.1	163.8	135.9	122.5	108.3	99.0	97.5	99.0
1449.3	35°	1442.6	1205.8	455.7	150.8	127.3	106.5	91.2	83.4	81.9	83.0
1564.7	37.5°	1525.9	1220.3	371.2	148.2	120.2	93.1	76.7	70.4	70.4	70.7
1706.1	40°	1636.9	1259.0	295.6	146.3	116.5	83.0	64.8	62.2	63.3	64.0
1886.3	42.5°	1772.0	1341.3	244.6	144.1	112.4	78.5	58.8	57.7	59.6	60.3
2102.2	45°	1923.5	1445.5	226.7	140.3	108.7	81.5	56.2	54.7	57.0	57.3
2344.2	47.5°	2080.3	1547.5	224.5	136.3	105.0	86.0	55.5	52.1	54.7	55.1
2602.6	50°	2238.8	1614.2	226.7	129.9	99.0	86.0	55.8	49.5	51.7	52.9
2870.6	52.5°	2398.6	1644.7	225.2	116.1	88.6	80.8	55.8	47.3	49.5	50.3
3160.2	55°	2553.4	1638.7	202.5	95.7	75.2	71.5	54.4	45.4	46.9	47.3
3433.8	57.5°	2675.9	1555.7	160.4	74.5	61.1	59.6	49.5	43.2	44.3	43.9
3684.8	60°	2739.9	1373.3	114.7	57.3	48.0	46.9	43.6	40.2	40.9	39.1
3897.3	62.5°	2740.7	1132.1	76.7	45.4	38.3	37.2	37.2	36.1	35.4	31.6
4061.9	65°	2682.2	864.4	51.0	36.1	30.9	29.0	31.3	30.9	28.3	23.1
4112.1	67.5°	2549.7	566.6	38.7	28.3	23.8	22.7	24.9	26.1	24.2	19.4
3929.0	70°	2277.2	329.8	32.0	22.0	17.9	16.8	20.1	22.3	20.1	15.6
3358.3	72.5°	1891.5	177.9	26.1	16.4	12.3	11.2	16.0	18.2	16.0	11.5
2154.7	75°	1227.4	95.3	20.1	10.8	6.3	7.1	11.9	13.4	11.2	7.4
632.5	77.5°	412.1	42.1	12.7	5.2	3.0	3.0	7.1	8.2	5.2	2.6
115.0	80°	92.0	17.5	5.2	2.2	1.1	1.1	1.5	1.5	0.7	0.0
35.4	82.5°	30.2	7.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
8.9	85°	11.5	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	87.5°	4.5	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>
919.5
907.2
797.8
634.7
426.3
256.5
190.2
178.3
170.1
159.0
144.4
130.3
115.8
98.7
82.6
70.4
64.0
60.3
57.7
55.5
53.2
50.3
47.3
43.9
38.7
30.5
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