

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: P946884

Luminaire Tested: **GALN-SB2B-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946884
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-SB2B-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5707 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

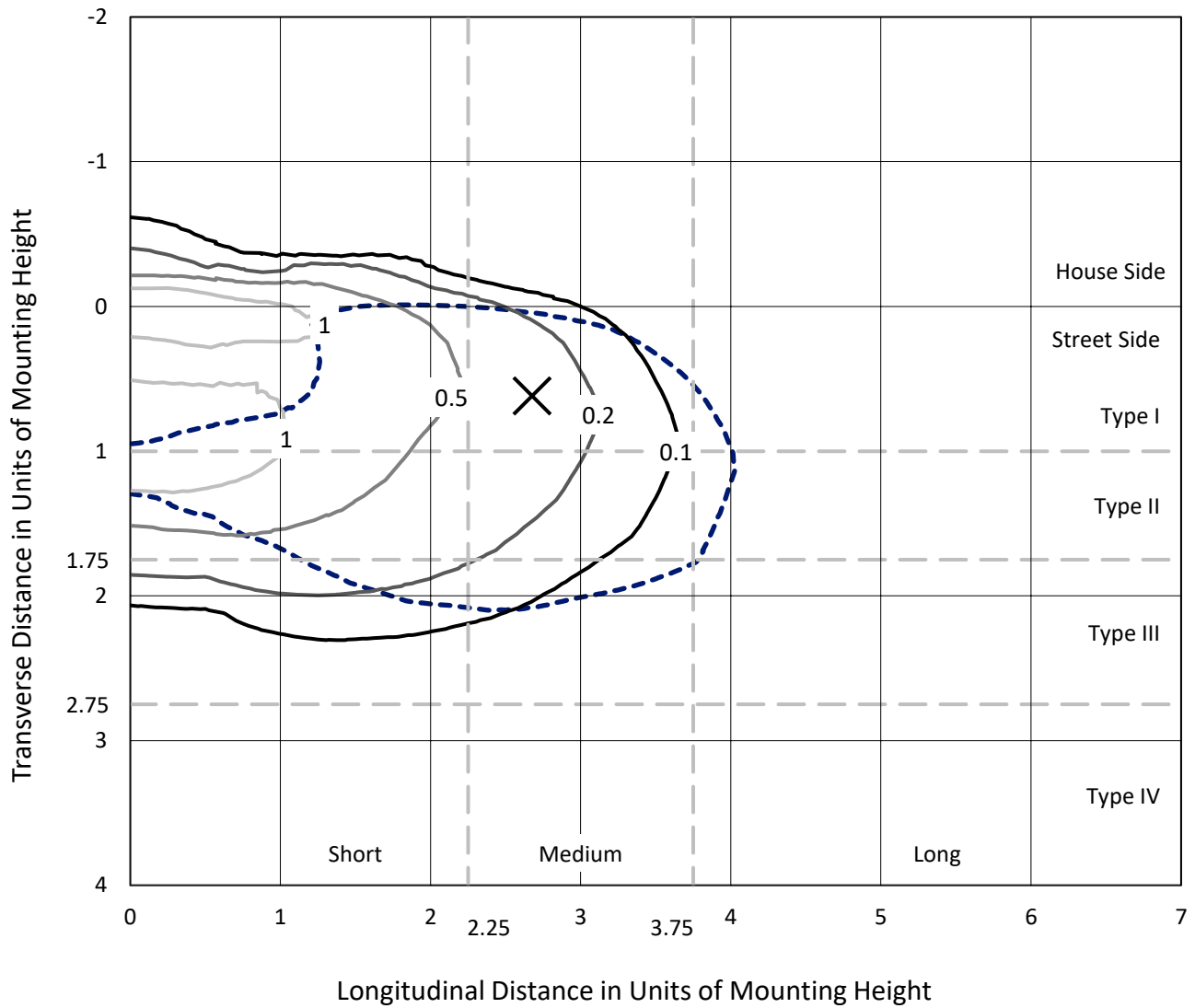
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

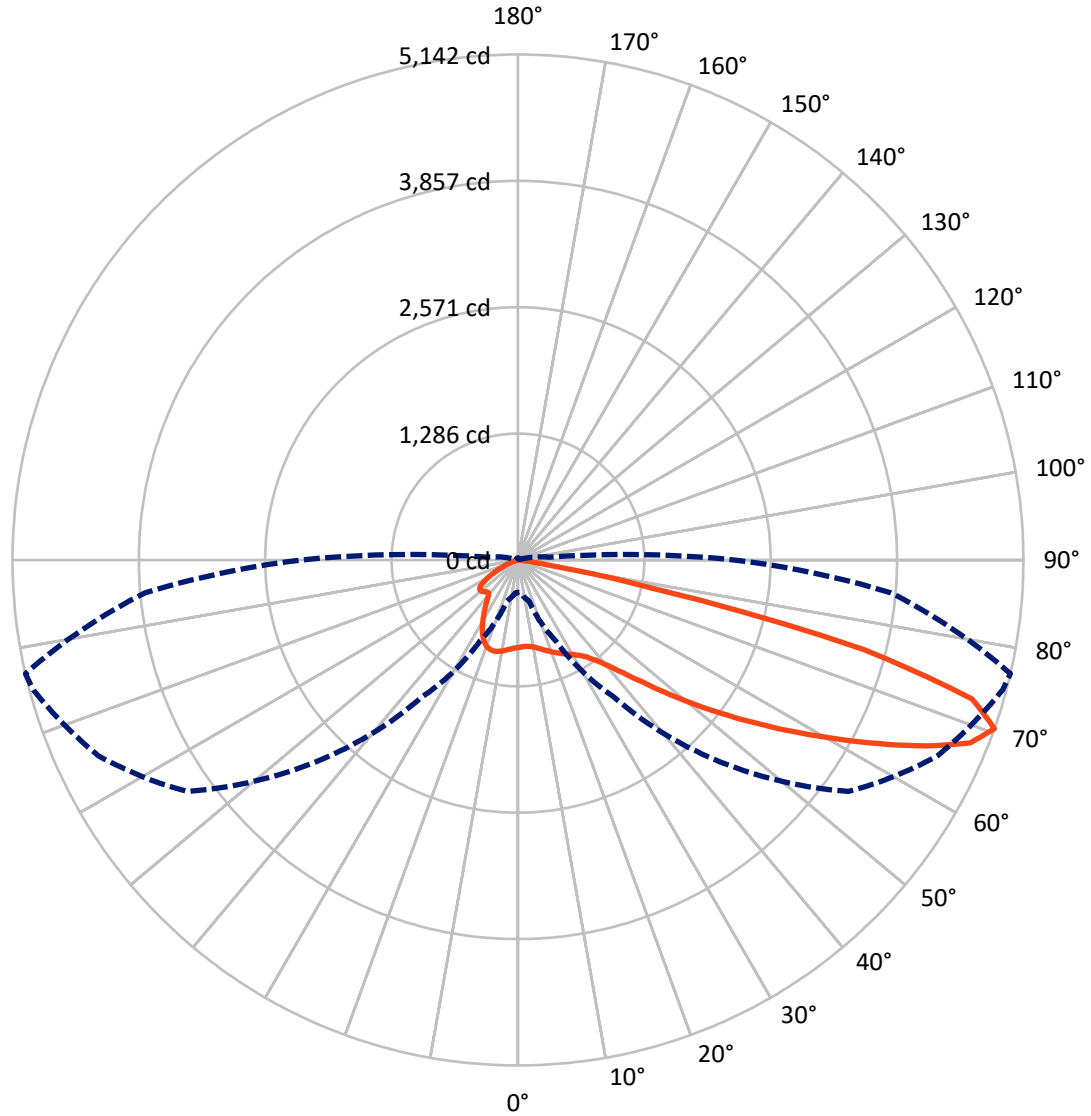
✕ Max cd
 - - - 1/2 Max cd



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	601.6	0.0	601.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5105.4	0.0	5105.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	5707.0	0.0	5707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.3
10°-20°	182.1	3.2
20°-30°	281.7	4.9
30°-40°	511.2	9.0
40°-50°	964.9	16.9
50°-60°	1394.2	24.4
60°-70°	1484.0	26.0
70°-80°	786.4	13.8
80°-90°	25.8	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°	5707.0	100.0
0°-180°	5707.0	100.0

Coefficient of Utilization



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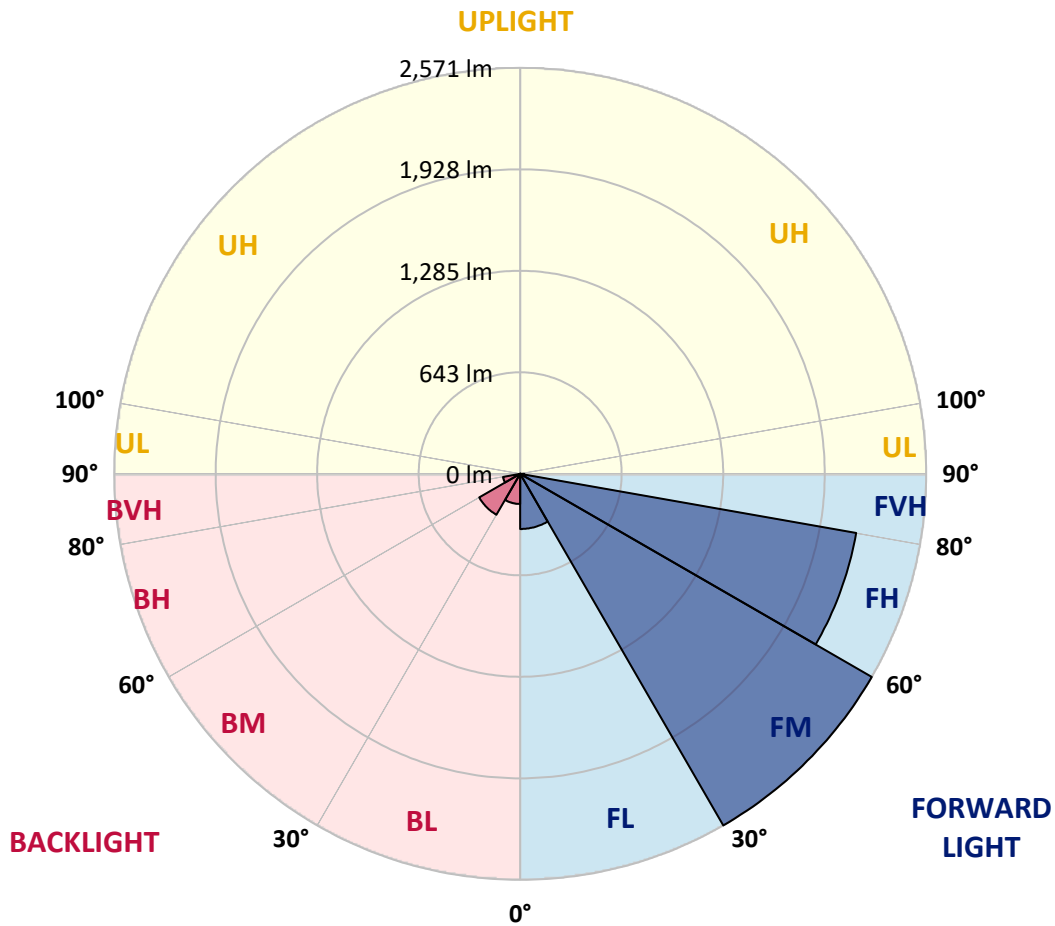
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.4	6.1			
FM (30°-60°)	2570.7	45.0			
FH (60°-80°)	2160.2	37.9			G2/5000
FVH (80°-90°)	25.1	0.4			G1/100
BL (0°-30°)	191.1	3.3	B1/500		
BM (30°-60°)	299.5	5.2	B1/1000		
BH (60°-80°)	110.3	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°	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2
2.5°	835.8	843.3	842.3	847.3	849.1	856.3	863.5	873.3	884.1	883.7
5°	788.6	796.1	797.9	804.8	813.4	824.6	839.4	858.8	879.0	882.3
7.5°	732.7	740.6	745.3	759.0	774.9	797.9	822.1	850.5	884.1	888.7
10°	676.8	684.0	690.2	709.6	734.9	769.1	808.4	849.5	894.5	901.4
12.5°	642.2	649.1	655.9	672.9	704.2	746.0	799.4	854.5	911.8	921.5
15°	630.0	636.1	641.5	656.6	685.8	733.4	797.6	865.0	933.8	946.8
17.5°	631.8	635.0	638.6	650.2	678.6	727.6	800.8	883.0	959.7	971.3
20°	642.2	644.0	644.4	652.3	677.6	726.9	807.3	900.3	984.3	999.8
22.5°	655.6	656.3	655.6	661.0	684.4	732.3	815.9	921.2	1011.6	1026.1
25°	717.9	704.2	686.9	676.5	695.9	742.8	828.9	949.3	1041.6	1055.6
27.5°	911.5	872.2	810.2	740.6	719.7	757.9	846.9	977.8	1071.8	1084.4
30°	1225.7	1174.2	1068.9	912.2	796.1	789.6	870.4	1006.2	1103.9	1117.6
32.5°	1540.7	1528.1	1406.6	1189.7	968.0	860.3	909.3	1044.8	1146.4	1157.2
35°	1859.3	1833.7	1734.2	1519.8	1232.9	1004.1	974.2	1095.3	1202.3	1214.5
37.5°	2103.3	2087.8	2026.2	1849.6	1547.2	1226.1	1085.2	1173.5	1283.4	1297.1
40°	2318.8	2311.6	2290.7	2174.3	1898.6	1516.6	1257.8	1294.6	1395.8	1412.0
42.5°	2488.2	2505.1	2517.0	2484.6	2260.8	1848.1	1489.9	1464.7	1552.6	1569.2
45°	2661.6	2667.3	2715.3	2762.1	2620.5	2194.8	1751.5	1664.0	1747.6	1768.1
47.5°	2772.9	2796.0	2880.3	2962.9	2922.8	2538.7	2032.7	1899.3	1973.6	2012.1
50°	2781.2	2824.8	2940.9	3084.7	3143.1	2865.9	2338.3	2167.4	2246.4	2288.9
52.5°	2643.2	2710.9	2890.8	3101.2	3262.0	3143.1	2654.3	2435.6	2536.9	2592.4
55°	2026.5	2115.2	2702.3	3011.1	3266.7	3353.2	2962.1	2714.9	2860.5	2923.2
57.5°	1765.6	1810.3	2124.6	2854.7	3179.8	3437.9	3240.4	2980.9	3212.6	3290.5
60°	1469.0	1527.7	1781.8	2598.8	3062.0	3446.1	3486.2	3324.0	3594.3	3681.9
62.5°	998.3	1062.1	1314.7	2159.2	2900.9	3442.2	3687.6	3677.2	4018.5	4112.5
65°	618.4	658.5	825.0	1763.1	2675.6	3446.5	3898.5	4106.0	4466.1	4561.6
67.5°	488.7	507.1	593.9	1353.7	2287.5	3349.2	4108.9	4509.3	4887.4	4963.1
70°	328.3	339.5	432.1	907.5	1701.8	2900.1	4105.0	4711.9	5104.4	5142.2
72.5°	173.0	181.6	252.6	420.2	1027.9	2061.5	3460.2	4469.7	4888.5	4831.5
75°	86.5	100.9	170.1	213.4	439.0	1149.7	2148.7	3524.0	3847.6	3627.1
77.5°	65.6	79.3	140.6	140.6	152.8	387.1	910.0	1922.0	1772.8	1476.2
80°	41.8	54.1	122.9	106.3	63.8	98.4	237.1	538.4	376.6	286.5
82.5°	24.5	35.3	102.4	70.3	35.7	36.4	67.0	114.6	97.7	76.0
85°	9.7	23.1	70.3	27.8	14.1	9.0	20.2	24.5	20.2	15.1
87.5°	0.0	5.4	12.3	0.0	1.1	0.7	1.4	1.8	1.8	1.4
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°
890.2	0°	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2
890.9	2.5°	894.2	894.9	897.0	897.4	892.4	885.9	883.3	882.3	877.9	877.6
896.7	5°	905.0	908.2	905.0	895.6	873.3	841.9	818.1	798.6	781.0	775.6
916.5	7.5°	926.6	929.8	920.1	883.3	827.1	764.8	708.5	668.9	633.2	619.9
940.6	10°	957.6	961.9	931.3	857.0	757.6	657.4	562.2	495.2	442.9	421.7
973.4	12.5°	996.5	998.3	937.4	817.0	667.1	524.0	389.2	317.5	271.0	253.7
1013.1	15°	1039.4	1036.9	938.1	762.6	543.8	370.5	254.1	208.7	189.9	184.2
1052.7	17.5°	1084.4	1074.0	923.7	684.0	408.7	253.4	188.5	177.7	174.4	173.0
1092.0	20°	1128.8	1105.3	897.4	581.3	293.4	189.2	171.2	167.9	166.1	165.4
1131.7	22.5°	1169.1	1129.1	852.3	462.0	213.0	167.2	161.8	158.9	155.7	154.3
1170.2	25°	1208.4	1142.8	788.9	350.7	170.5	156.4	152.1	146.7	142.4	140.6
1211.7	27.5°	1246.6	1151.5	709.6	259.5	152.1	146.3	138.4	130.8	127.6	126.9
1256.0	30°	1287.4	1154.4	619.5	193.5	140.9	133.7	122.2	113.5	111.7	112.1
1315.8	32.5°	1337.1	1158.7	528.7	158.6	131.5	118.6	104.9	95.9	94.4	95.9
1403.0	35°	1396.6	1167.3	441.1	146.0	123.3	103.1	88.3	80.7	79.3	80.4
1514.8	37.5°	1477.3	1181.4	359.3	143.4	116.4	90.1	74.2	68.1	68.1	68.5
1651.7	40°	1584.7	1218.9	286.2	141.6	112.8	80.4	62.7	60.2	61.3	62.0
1826.1	42.5°	1715.5	1298.5	236.8	139.5	108.8	76.0	56.9	55.9	57.7	58.4
2035.2	45°	1862.2	1399.4	219.5	135.9	105.2	78.9	54.4	53.0	55.1	55.5
2269.4	47.5°	2013.9	1498.2	217.3	131.9	101.6	83.3	53.7	50.5	53.0	53.3
2519.6	50°	2167.4	1562.7	219.5	125.8	95.9	83.3	54.1	47.9	50.1	51.2
2779.0	52.5°	2322.1	1592.2	218.0	112.4	85.8	78.2	54.1	45.8	47.9	48.7
3059.4	55°	2472.0	1586.5	196.1	92.6	72.8	69.2	52.6	44.0	45.4	45.8
3324.3	57.5°	2590.6	1506.1	155.3	72.1	59.1	57.7	47.9	41.8	42.9	42.5
3567.2	60°	2652.5	1329.5	111.0	55.5	46.5	45.4	42.2	38.9	39.6	37.8
3773.0	62.5°	2653.3	1096.0	74.2	44.0	37.1	36.0	36.0	35.0	34.2	30.6
3932.3	65°	2596.7	836.8	49.4	35.0	29.9	28.1	30.3	29.9	27.4	22.3
3981.0	67.5°	2468.4	548.5	37.5	27.4	23.1	22.0	24.1	25.2	23.4	18.7
3803.7	70°	2204.6	319.3	31.0	21.3	17.3	16.2	19.5	21.6	19.5	15.1
3251.2	72.5°	1831.2	172.3	25.2	15.9	11.9	10.8	15.5	17.7	15.5	11.2
2086.0	75°	1188.2	92.3	19.5	10.5	6.1	6.8	11.5	13.0	10.8	7.2
612.3	77.5°	399.0	40.7	12.3	5.0	2.9	2.9	6.8	7.9	5.0	2.5
111.4	80°	89.0	16.9	5.0	2.2	1.1	1.1	1.4	1.4	0.7	0.0
34.2	82.5°	29.2	6.8	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
8.6	85°	11.2	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.9	87.5°	4.3	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>
890.2
878.3
772.3
614.5
412.7
248.3
184.2
172.6
164.7
153.9
139.8
126.1
112.1
95.5
80.0
68.1
62.0
58.4
55.9
53.7
51.5
48.7
45.8
42.5
37.5
29.6
21.6
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