

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: P939291

Luminaire Tested: **GALN-SB1D-827-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6179 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

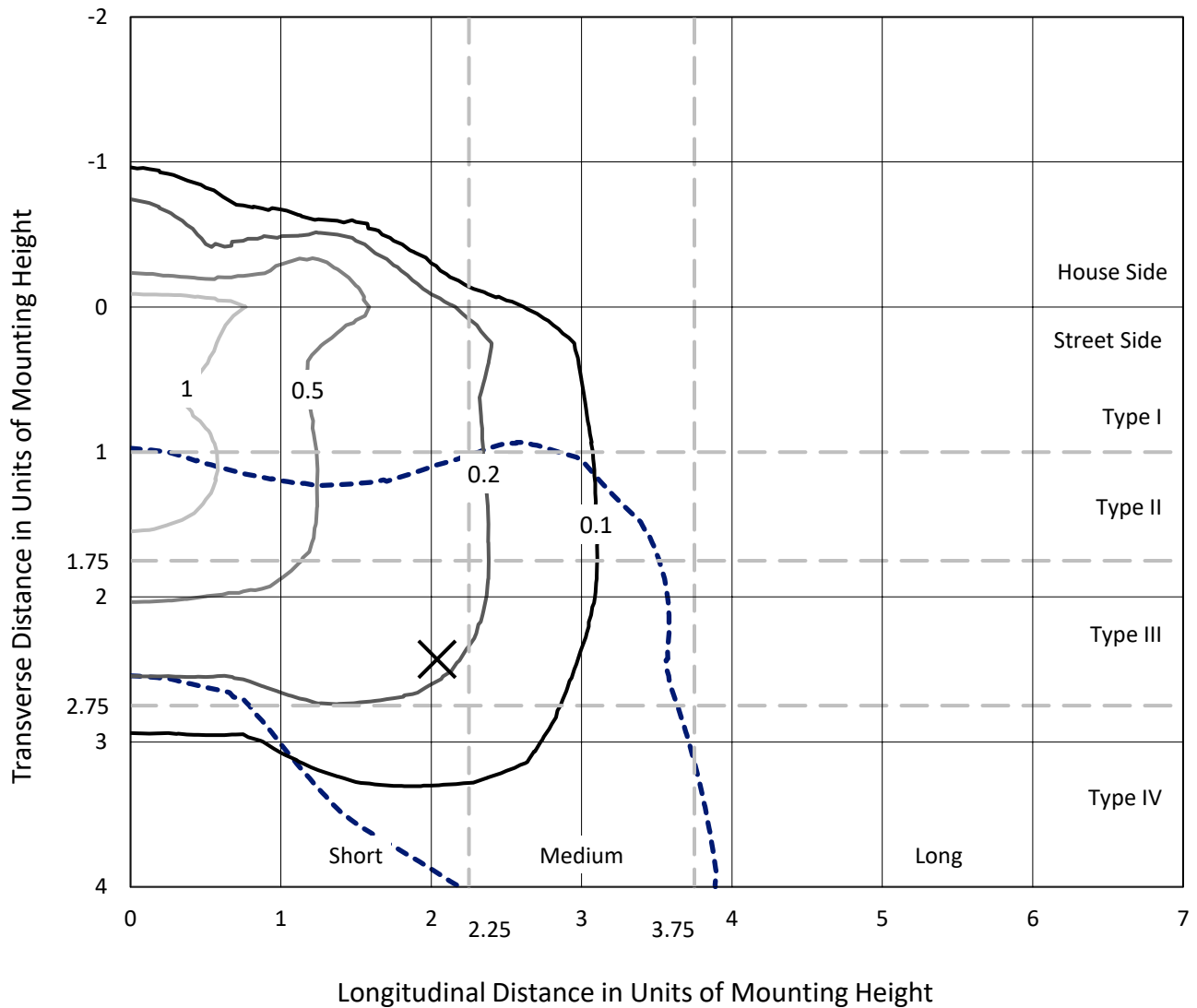
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

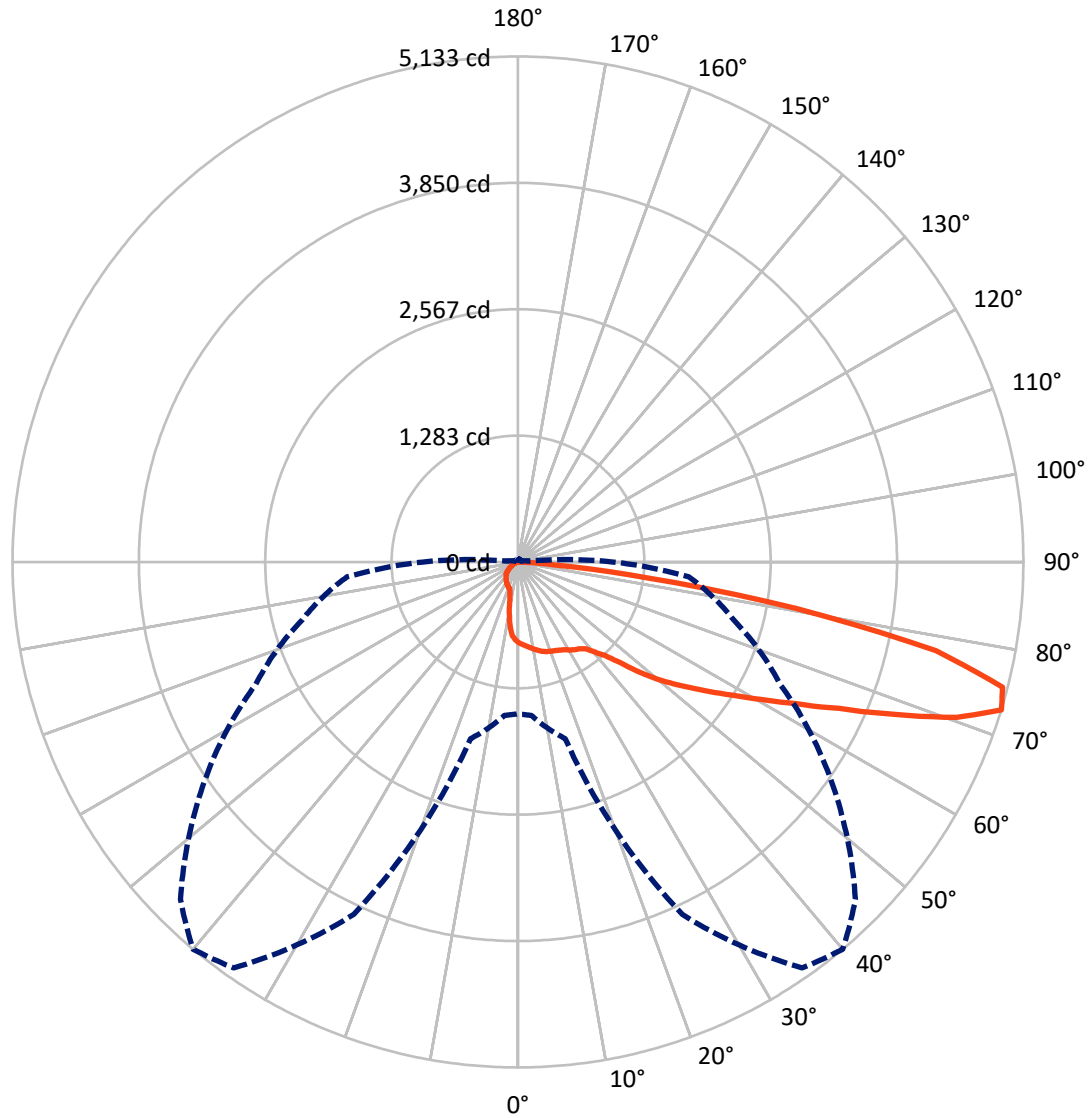
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.0	0.0	798.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	5381.1	0.0	5381.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	6179.0	0.0	6179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	1.2
10°-20°	202.9	3.3
20°-30°	328.3	5.3
30°-40°	484.7	7.8
40°-50°	815.8	13.2
50°-60°	1266.7	20.5
60°-70°	1585.0	25.7
70°-80°	1297.7	21.0
80°-90°	123.1	2.0
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°	6179.0	100.0
0°-180°	6179.0	100.0

Coefficient of Utilization



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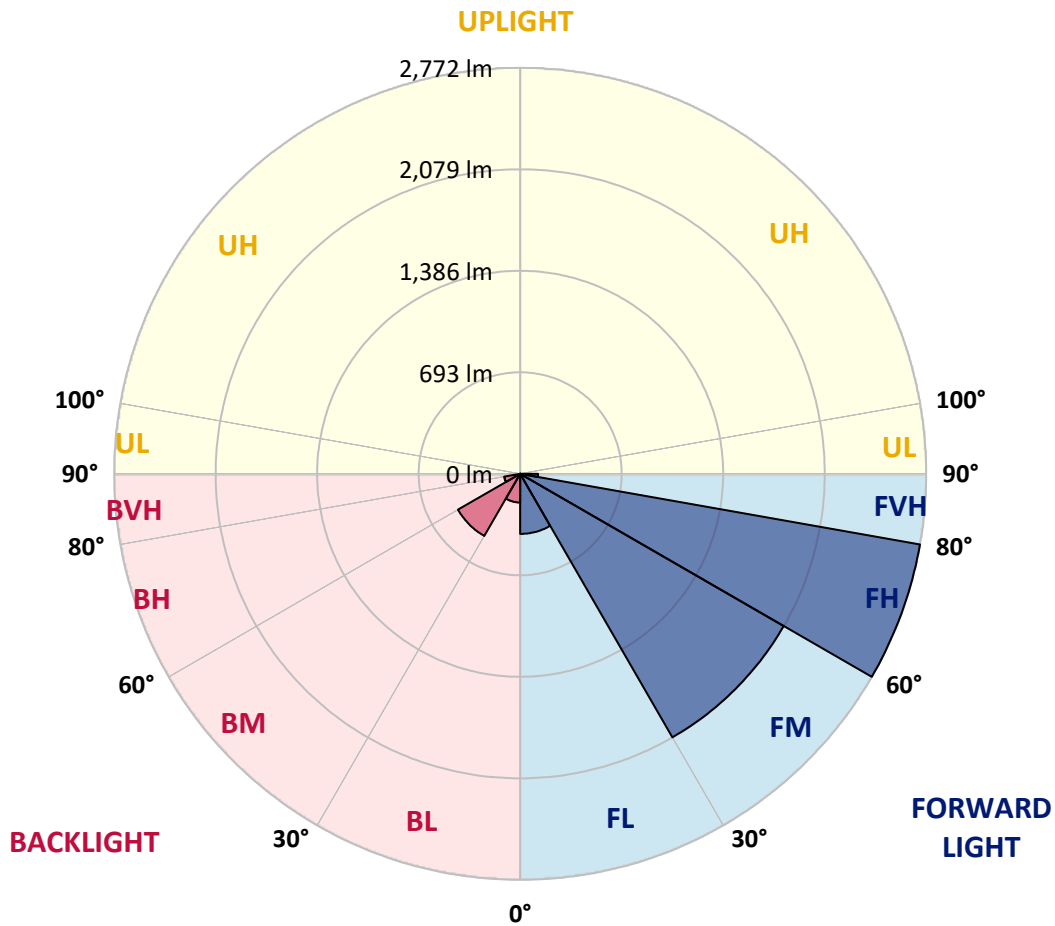
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.1	6.6			
FM (30°-60°)	2077.3	33.6			
FH (60°-80°)	2771.6	44.9			G2/5000
FVH (80°-90°)	122.1	2.0			G2/225
BL (0°-30°)	195.9	3.2	B1/500		
BM (30°-60°)	490.0	7.9	B1/1000		
BH (60°-80°)	111.2	1.8	B1/500		G1/500
BVH (80°-90°)	0.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1
2.5°	842.8	846.1	844.2	840.5	839.6	837.7	835.4	834.4	831.2	828.4
5°	866.5	869.8	867.5	862.4	860.0	857.7	854.4	851.7	845.1	839.1
7.5°	892.6	895.4	892.6	885.2	881.4	878.6	874.0	869.8	862.4	853.5
10°	921.5	923.8	919.6	909.8	903.8	899.6	895.4	890.8	883.8	874.0
12.5°	948.5	951.3	944.7	933.1	926.1	921.9	917.3	913.6	906.6	897.3
15°	973.1	977.3	966.1	953.6	945.7	942.4	937.8	935.4	930.8	924.3
17.5°	991.7	994.5	982.9	968.0	959.2	956.8	953.6	955.0	954.0	950.8
20°	1007.6	1009.4	994.1	975.9	966.1	966.6	965.7	970.3	972.2	972.2
22.5°	1027.1	1027.6	1008.0	985.2	973.6	976.8	978.2	983.4	987.1	990.8
25°	1052.7	1051.8	1028.5	997.3	987.1	991.7	995.0	996.9	1001.0	1007.1
27.5°	1090.9	1088.1	1058.3	1016.9	1004.8	1009.0	1015.0	1014.1	1012.2	1016.9
30°	1139.3	1135.5	1096.0	1044.3	1033.2	1036.9	1038.7	1030.4	1016.9	1021.1
32.5°	1216.1	1209.5	1154.6	1075.0	1057.8	1062.0	1059.7	1042.5	1022.5	1026.6
35°	1349.6	1333.8	1256.1	1139.3	1085.7	1081.1	1075.5	1058.8	1034.1	1029.9
37.5°	1633.5	1605.6	1472.9	1264.5	1149.0	1118.8	1101.6	1084.8	1046.7	1029.9
40°	1953.7	1925.3	1772.2	1473.9	1254.2	1203.0	1162.1	1115.5	1059.7	1036.0
42.5°	2287.8	2256.7	2099.4	1733.6	1404.5	1299.4	1223.0	1140.2	1081.1	1054.6
45°	2661.1	2622.0	2416.3	2004.4	1622.8	1459.5	1321.2	1190.9	1118.3	1087.6
47.5°	3054.8	3004.1	2732.3	2267.4	1857.8	1681.0	1500.9	1281.7	1173.2	1136.9
50°	3403.8	3353.6	3058.5	2542.4	2077.5	1891.8	1705.6	1407.3	1255.6	1206.7
52.5°	3654.7	3616.5	3355.4	2826.3	2306.0	2089.6	1891.3	1553.5	1359.9	1296.1
55°	3822.7	3787.8	3565.8	3095.3	2571.7	2307.4	2074.2	1712.2	1485.5	1403.1
57.5°	3924.6	3904.6	3718.0	3335.4	2835.1	2545.7	2283.7	1886.7	1633.5	1529.3
60°	3960.9	3944.6	3812.4	3564.4	3153.5	2831.9	2529.8	2083.5	1813.1	1672.6
62.5°	3864.1	3867.4	3880.4	3835.7	3489.0	3167.0	2824.9	2320.0	2012.3	1835.0
65°	3408.5	3435.5	3683.1	4136.4	3933.4	3586.7	3200.5	2608.5	2240.4	2019.8
67.5°	2822.1	2861.2	3169.3	4312.3	4407.2	4131.7	3723.6	2976.1	2512.2	2207.8
70°	2160.3	2202.2	2575.4	4275.5	4850.7	4727.4	4370.4	3443.9	2793.7	2338.1
72.5°	1541.8	1563.2	1857.4	3948.3	5032.7	5133.2	4847.0	3886.9	2937.5	2266.0
75°	1083.4	1079.7	1274.7	3179.5	4749.3	5083.9	4679.9	3647.2	2658.3	1800.1
77.5°	471.9	472.8	636.6	1930.9	3790.6	4342.1	3890.2	2284.6	1853.2	954.0
80°	122.4	126.1	233.6	768.8	2282.3	2865.9	2372.5	1004.3	856.3	232.7
82.5°	43.3	46.1	107.5	241.5	841.9	1314.3	1056.4	321.1	223.4	66.6
85°	12.6	14.9	57.7	74.0	174.1	371.4	256.4	62.4	54.9	34.4
87.5°	0.0	1.9	11.6	10.2	10.2	7.0	13.0	7.0	8.8	4.2
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°
818.1	0°	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1
825.1	2.5°	822.3	819.1	812.1	804.7	797.7	791.2	789.3	782.3	779.1	779.5
831.6	5°	826.5	820.5	807.0	790.7	773.9	754.9	739.0	716.7	697.6	695.3
844.2	7.5°	837.7	827.9	806.0	774.4	732.5	679.9	631.1	582.7	555.2	540.3
862.8	10°	854.9	841.9	808.4	747.9	659.0	565.0	491.0	430.0	398.8	384.4
885.6	12.5°	875.4	861.0	812.1	702.7	564.0	440.7	360.7	323.4	316.9	316.0
913.6	15°	904.2	888.4	816.3	641.8	461.2	335.5	298.8	299.2	304.4	307.2
943.8	17.5°	936.4	920.5	810.2	567.3	359.7	286.7	285.7	289.9	297.4	300.2
971.7	20°	968.9	954.0	788.8	479.8	290.9	273.2	276.9	281.6	289.0	292.7
999.2	22.5°	1002.4	989.4	754.9	386.7	262.5	263.4	268.1	272.7	281.1	285.3
1026.2	25°	1038.3	1027.1	709.7	309.9	250.4	253.2	259.2	264.8	273.6	278.8
1049.0	27.5°	1074.6	1066.2	658.5	258.8	239.2	242.5	249.4	256.9	265.7	271.8
1069.0	30°	1114.1	1109.5	617.6	239.7	228.5	231.3	239.2	247.6	257.4	264.8
1089.0	32.5°	1154.6	1153.7	597.6	253.6	218.7	220.6	227.6	236.0	248.1	257.4
1105.8	35°	1194.6	1196.5	585.9	293.2	215.5	210.4	215.0	222.5	236.9	248.5
1124.8	37.5°	1245.8	1250.5	585.5	336.0	223.4	200.1	203.4	208.5	221.1	234.6
1154.6	40°	1322.2	1346.8	615.2	372.8	237.3	190.8	191.7	192.7	199.2	210.4
1194.2	42.5°	1423.6	1495.8	722.7	397.9	242.9	182.4	179.2	174.1	173.1	179.2
1248.2	45°	1549.7	1675.9	911.7	411.9	237.3	173.1	164.3	150.8	145.7	149.9
1321.2	47.5°	1698.2	1873.2	1135.5	415.1	228.0	161.5	145.7	128.0	123.8	125.2
1419.4	50°	1842.9	2021.2	1332.4	388.1	212.7	146.6	125.2	110.3	107.5	108.0
1535.3	52.5°	1970.9	2071.9	1388.2	324.4	192.2	128.4	107.5	97.3	95.4	95.4
1663.3	55°	2055.6	2017.0	1237.9	248.1	166.6	109.8	92.1	87.0	86.1	85.6
1806.2	57.5°	2073.3	1838.3	935.0	179.2	130.3	92.6	81.9	79.1	77.3	75.4
1952.8	60°	2010.0	1540.4	595.2	125.2	97.7	79.1	72.6	70.7	67.0	63.3
2090.5	62.5°	1873.2	1163.5	329.5	87.0	78.7	67.5	64.2	61.9	54.9	48.9
2199.9	65°	1689.4	773.5	145.7	67.9	64.2	56.8	54.9	51.7	43.3	36.3
2241.3	67.5°	1504.6	445.4	65.6	54.5	51.7	46.5	45.1	42.8	36.8	30.3
2135.7	70°	1293.8	225.7	45.1	43.3	40.0	35.4	36.8	36.3	30.3	24.7
1741.9	72.5°	963.4	112.2	34.0	32.6	28.9	25.1	30.3	29.8	23.7	18.6
1074.1	75°	545.4	55.4	24.7	22.8	17.2	18.6	24.2	22.8	16.3	12.1
453.3	77.5°	216.4	28.4	16.3	14.0	10.2	12.6	17.7	15.4	8.4	5.1
86.6	80°	49.8	14.0	8.4	6.1	4.7	7.4	9.3	5.6	2.3	0.5
23.3	82.5°	14.0	6.1	2.8	2.3	2.3	2.8	2.3	0.9	0.0	0.0
6.1	85°	4.7	2.8	0.9	0.5	0.5	0.5	0.5	0.0	0.0	0.0
1.9	87.5°	1.9	0.9	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>
818.1
779.1
693.9
539.4
381.6
315.5
306.7
299.7
292.7
285.3
278.8
272.3
265.7
258.3
250.4
236.9
214.1
182.4
149.9
124.7
108.0
94.9
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