

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: P939301

Luminaire Tested: **GALN-SB1D-830-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939301
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-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 6385 lumens
Efficiency: N/A
Efficacy: 80.2 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

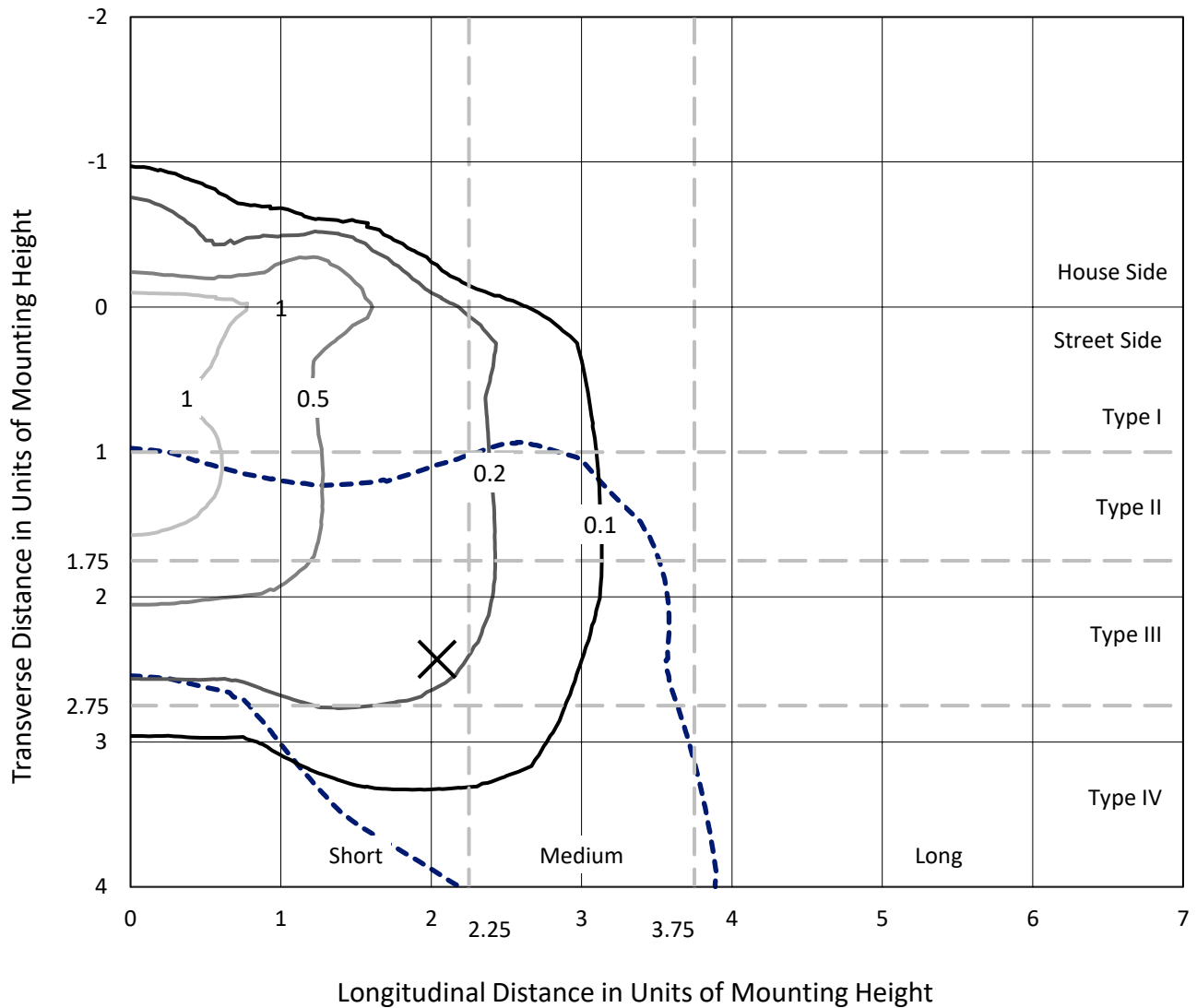
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

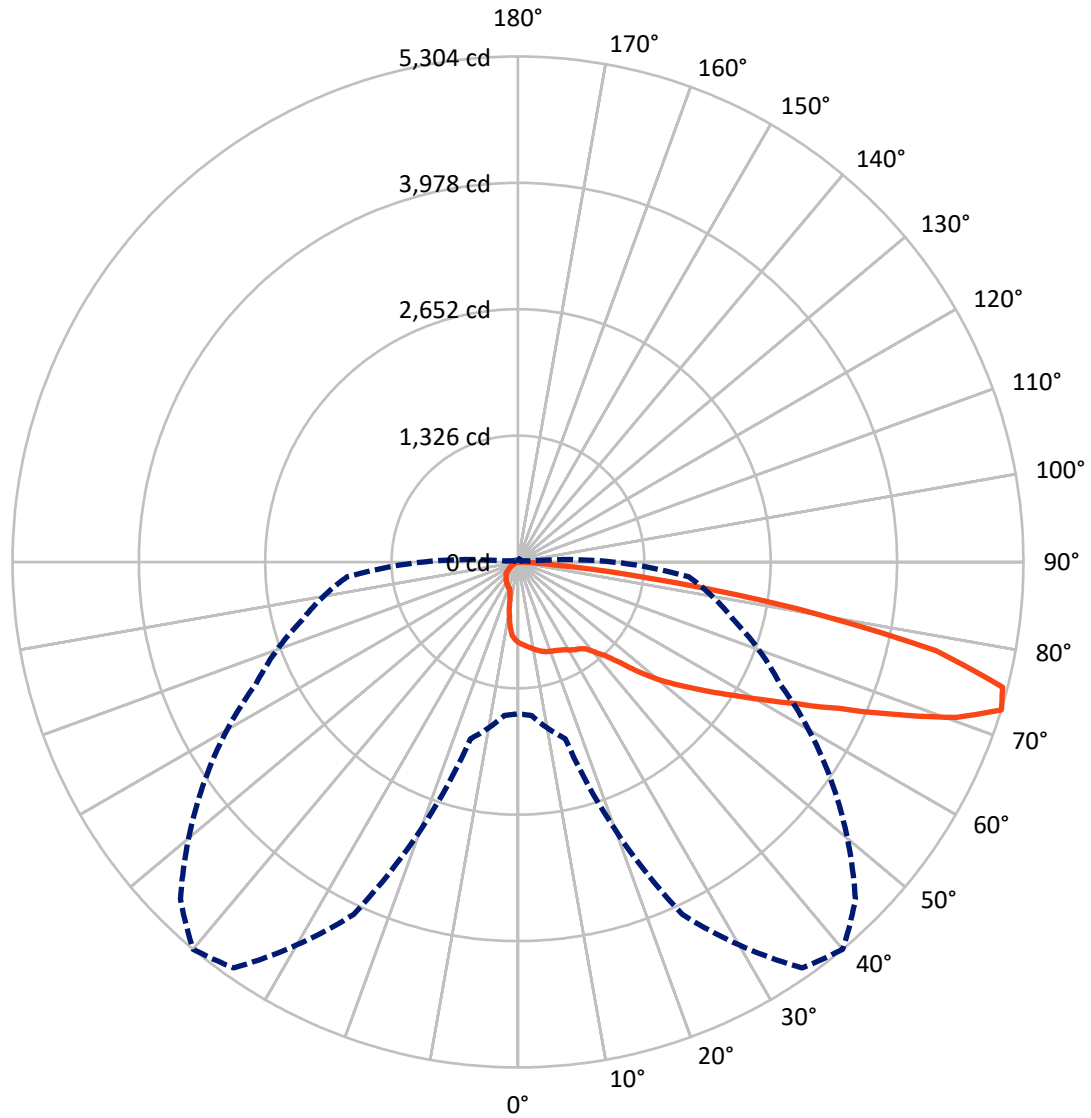
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	824.6	0.0	824.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	5560.4	0.0	5560.4
	% Fixture	87.1	0.0	87.1
Total	Lumens	6385.0	0.0	6385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.2
10°-20°	209.7	3.3
20°-30°	339.3	5.3
30°-40°	500.9	7.8
40°-50°	843.0	13.2
50°-60°	1309.0	20.5
60°-70°	1637.9	25.7
70°-80°	1340.9	21.0
80°-90°	127.2	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°	6385.0	100.0
0°-180°	6385.0	100.0

Coefficient of Utilization



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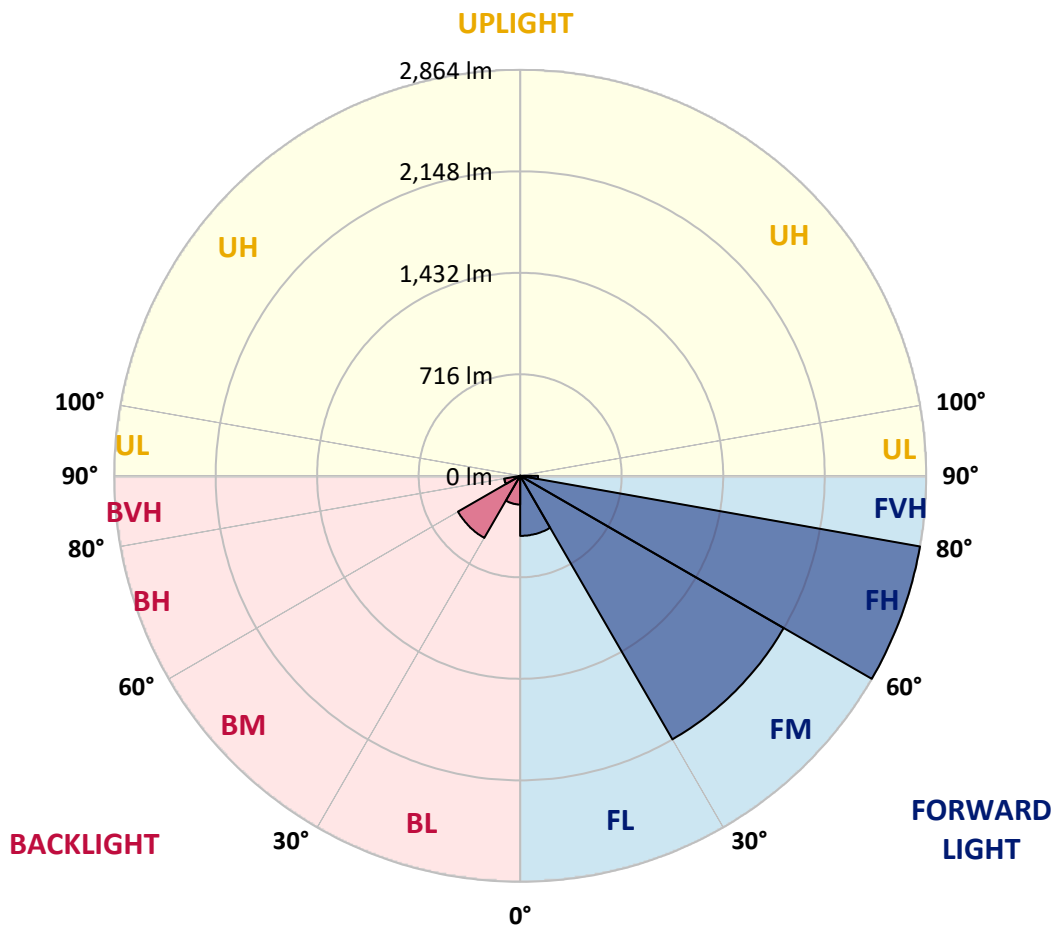
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.8	6.6			
FM (30°-60°)	2146.5	33.6			
FH (60°-80°)	2864.0	44.9			G2/5000
FVH (80°-90°)	126.2	2.0			G2/225
BL (0°-30°)	202.4	3.2	B1/500		
BM (30°-60°)	506.3	7.9	B1/1000		
BH (60°-80°)	114.9	1.8	B1/500		G1/500
BVH (80°-90°)	1.0	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°	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4
2.5°	870.9	874.3	872.4	868.5	867.5	865.6	863.2	862.3	858.9	856.0
5°	895.4	898.8	896.4	891.1	888.7	886.3	882.9	880.1	873.3	867.1
7.5°	922.4	925.3	922.4	914.7	910.8	907.9	903.1	898.8	891.1	882.0
10°	952.2	954.6	950.3	940.2	933.9	929.6	925.3	920.4	913.2	903.1
12.5°	980.1	983.0	976.2	964.2	957.0	952.7	947.9	944.0	936.8	927.2
15°	1005.6	1009.9	998.4	985.4	977.2	973.8	969.0	966.6	961.8	955.1
17.5°	1024.8	1027.7	1015.7	1000.3	991.1	988.7	985.4	986.8	985.8	982.5
20°	1041.2	1043.1	1027.2	1008.5	998.4	998.8	997.9	1002.7	1004.6	1004.6
22.5°	1061.4	1061.8	1041.6	1018.1	1006.0	1009.4	1010.9	1016.1	1020.0	1023.8
25°	1087.8	1086.8	1062.8	1030.6	1020.0	1024.8	1028.2	1030.1	1034.4	1040.7
27.5°	1127.2	1124.3	1093.6	1050.8	1038.3	1042.6	1048.8	1047.9	1046.0	1050.8
30°	1177.2	1173.4	1132.5	1079.1	1067.6	1071.4	1073.4	1064.7	1050.8	1055.1
32.5°	1256.6	1249.9	1193.1	1110.9	1093.1	1097.4	1095.0	1077.2	1056.5	1060.9
35°	1394.6	1378.3	1298.0	1177.2	1121.9	1117.1	1111.4	1094.1	1068.6	1064.2
37.5°	1688.0	1659.1	1522.1	1306.6	1187.3	1156.1	1138.3	1121.0	1081.5	1064.2
40°	2018.8	1989.5	1831.3	1523.0	1296.0	1243.1	1200.8	1152.7	1095.0	1070.5
42.5°	2364.1	2331.9	2169.3	1791.4	1451.4	1342.7	1263.8	1178.2	1117.1	1089.7
45°	2749.8	2709.4	2496.8	2071.2	1676.9	1508.1	1365.3	1230.6	1155.6	1123.9
47.5°	3156.6	3104.2	2823.4	2343.0	1919.8	1737.0	1550.9	1324.4	1212.4	1174.8
50°	3517.3	3465.4	3160.5	2627.2	2146.7	1954.9	1762.5	1454.2	1297.5	1247.0
52.5°	3776.5	3737.1	3467.3	2920.5	2382.9	2159.3	1954.4	1605.3	1405.2	1339.3
55°	3950.1	3914.1	3684.7	3198.5	2657.5	2384.3	2143.4	1769.2	1535.0	1449.9
57.5°	4055.4	4034.8	3841.9	3446.6	2929.7	2630.5	2359.8	1949.6	1688.0	1580.2
60°	4093.0	4076.1	3939.5	3683.2	3258.6	2926.3	2614.2	2153.0	1873.6	1728.4
62.5°	3992.9	3996.3	4009.8	3963.6	3605.3	3272.5	2919.1	2397.3	2079.4	1896.2
65°	3522.1	3550.0	3805.9	4274.3	4064.6	3706.3	3307.2	2695.5	2315.1	2087.1
67.5°	2916.2	2956.6	3274.9	4456.0	4554.1	4269.4	3847.7	3075.4	2595.9	2281.4
70°	2232.3	2275.6	2661.3	4418.0	5012.4	4885.0	4516.2	3558.7	2886.9	2416.1
72.5°	1593.2	1615.3	1919.3	4080.0	5200.5	5304.3	5008.6	4016.5	3035.5	2341.5
75°	1119.5	1115.7	1317.2	3285.5	4907.6	5253.4	4836.0	3768.8	2746.9	1860.1
77.5°	487.6	488.6	657.9	1995.3	3916.9	4486.8	4019.9	2360.7	1915.0	985.8
80°	126.5	130.3	241.4	794.5	2358.3	2961.4	2451.6	1037.8	884.9	240.5
82.5°	44.7	47.6	111.1	249.6	870.0	1358.1	1091.6	331.8	230.8	68.8
85°	13.0	15.4	59.6	76.5	179.9	383.8	265.0	64.4	56.7	35.6
87.5°	0.0	1.9	12.0	10.6	10.6	7.2	13.5	7.2	9.1	4.3
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°
845.4	0°	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4
852.6	2.5°	849.8	846.4	839.2	831.5	824.3	817.5	815.6	808.4	805.0	805.5
859.4	5°	854.1	847.8	833.9	817.1	799.7	780.0	763.7	740.6	720.9	718.5
872.4	7.5°	865.6	855.5	832.9	800.2	756.9	702.6	652.1	602.1	573.7	558.3
891.6	10°	883.4	870.0	835.3	772.8	681.0	583.8	507.4	444.4	412.1	397.2
915.2	12.5°	904.6	889.7	839.2	726.2	582.9	455.4	372.7	334.2	327.5	326.5
944.0	15°	934.4	918.0	843.5	663.2	476.6	346.7	308.7	309.2	314.5	317.4
975.3	17.5°	967.6	951.2	837.3	586.2	371.7	296.2	295.3	299.6	307.3	310.2
1004.1	20°	1001.2	985.8	815.1	495.8	300.6	282.3	286.1	290.9	298.6	302.5
1032.5	22.5°	1035.9	1022.4	780.0	399.6	271.2	272.2	277.0	281.8	290.5	294.8
1060.4	25°	1072.9	1061.4	733.4	320.3	258.7	261.6	267.9	273.6	282.8	288.1
1084.0	27.5°	1110.4	1101.7	680.5	267.4	247.2	250.5	257.8	265.5	274.6	280.8
1104.6	30°	1151.3	1146.5	638.2	247.7	236.1	239.0	247.2	255.8	265.9	273.6
1125.3	32.5°	1193.1	1192.2	617.5	262.1	226.0	227.9	235.2	243.8	256.3	265.9
1142.6	35°	1234.5	1236.4	605.5	303.0	222.7	217.4	222.2	229.9	244.8	256.8
1162.3	37.5°	1287.4	1292.2	605.0	347.2	230.8	206.8	210.2	215.4	228.4	242.4
1193.1	40°	1366.2	1391.7	635.8	385.2	245.3	197.2	198.1	199.1	205.8	217.4
1234.0	42.5°	1471.1	1545.6	746.8	411.2	251.0	188.5	185.1	179.9	178.9	185.1
1289.8	45°	1601.4	1731.7	942.1	425.6	245.3	178.9	169.8	155.8	150.5	154.9
1365.3	47.5°	1754.8	1935.6	1173.4	429.0	235.6	166.9	150.5	132.2	127.9	129.4
1466.8	50°	1904.4	2088.6	1376.8	401.1	219.8	151.5	129.4	114.0	111.1	111.6
1586.5	52.5°	2036.6	2141.0	1434.5	335.2	198.6	132.7	111.1	100.5	98.6	98.6
1718.7	55°	2124.1	2084.2	1279.2	256.3	172.2	113.5	95.2	89.9	89.0	88.5
1866.4	57.5°	2142.4	1899.6	966.1	185.1	134.7	95.7	84.6	81.8	79.8	77.9
2017.9	60°	2077.0	1591.8	615.1	129.4	101.0	81.8	75.0	73.1	69.2	65.4
2160.2	62.5°	1935.6	1202.3	340.5	89.9	81.3	69.7	66.4	64.0	56.7	50.5
2273.2	65°	1745.7	799.3	150.5	70.2	66.4	58.7	56.7	53.4	44.7	37.5
2316.0	67.5°	1554.8	460.2	67.8	56.3	53.4	48.1	46.6	44.2	38.0	31.3
2206.9	70°	1336.9	233.2	46.6	44.7	41.4	36.5	38.0	37.5	31.3	25.5
1800.0	72.5°	995.5	115.9	35.1	33.7	29.8	26.0	31.3	30.8	24.5	19.2
1109.9	75°	563.6	57.2	25.5	23.6	17.8	19.2	25.0	23.6	16.8	12.5
468.4	77.5°	223.6	29.3	16.8	14.4	10.6	13.0	18.3	15.9	8.7	5.3
89.4	80°	51.5	14.4	8.7	6.3	4.8	7.7	9.6	5.8	2.4	0.5
24.0	82.5°	14.4	6.3	2.9	2.4	2.4	2.9	2.4	1.0	0.0	0.0
6.3	85°	4.8	2.9	1.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
1.9	87.5°	1.9	1.0	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>
845.4
805.0
717.0
557.4
394.3
326.1
316.9
309.7
302.5
294.8
288.1
281.3
274.6
266.9
258.7
244.8
221.2
188.5
154.9
128.9
111.6
98.1
87.5
76.9
64.0
48.6
36.1
30.3
24.5
18.3
11.5
4.8
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