

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: P939648

Luminaire Tested: **GALN-SB2B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7661 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

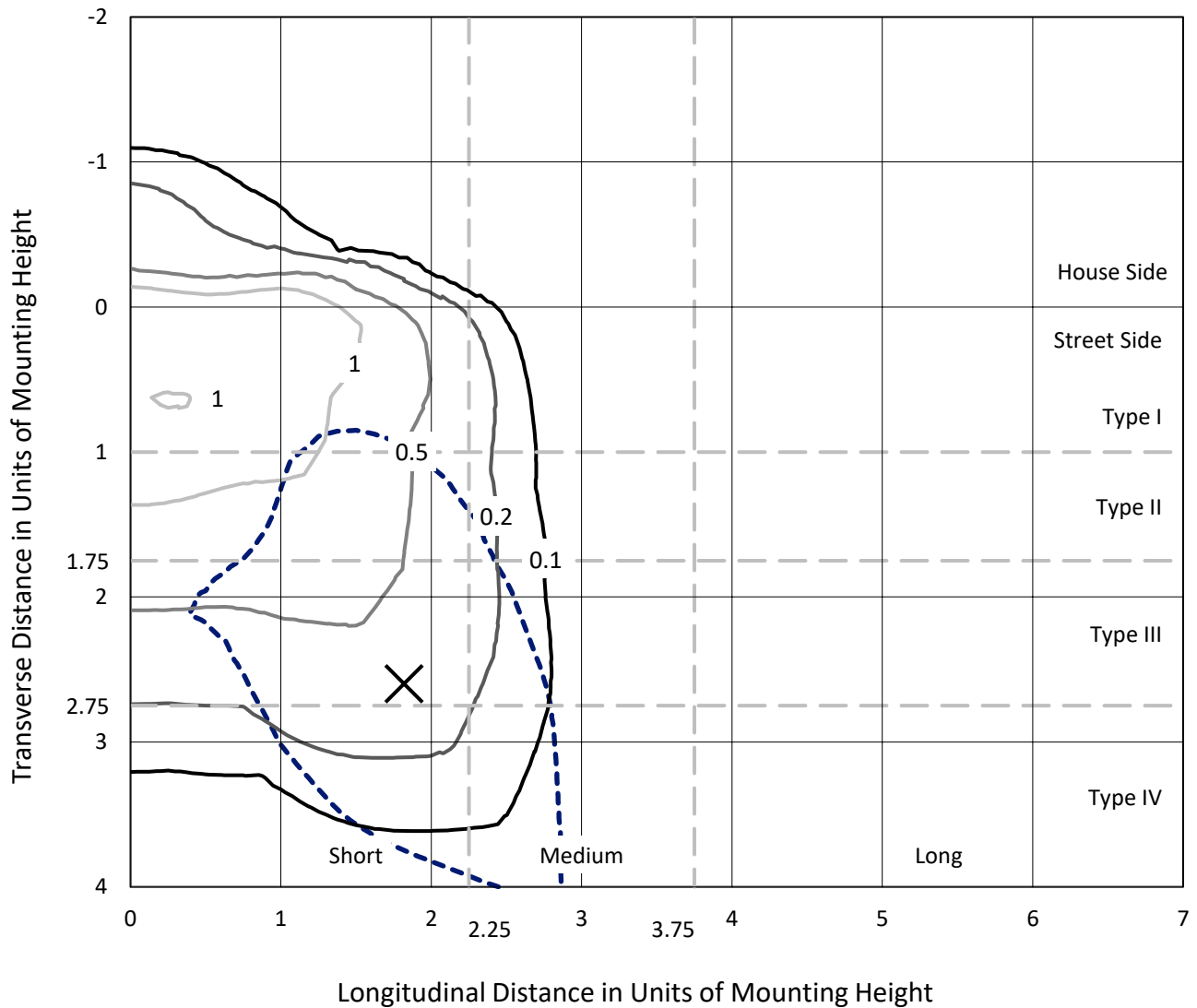
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

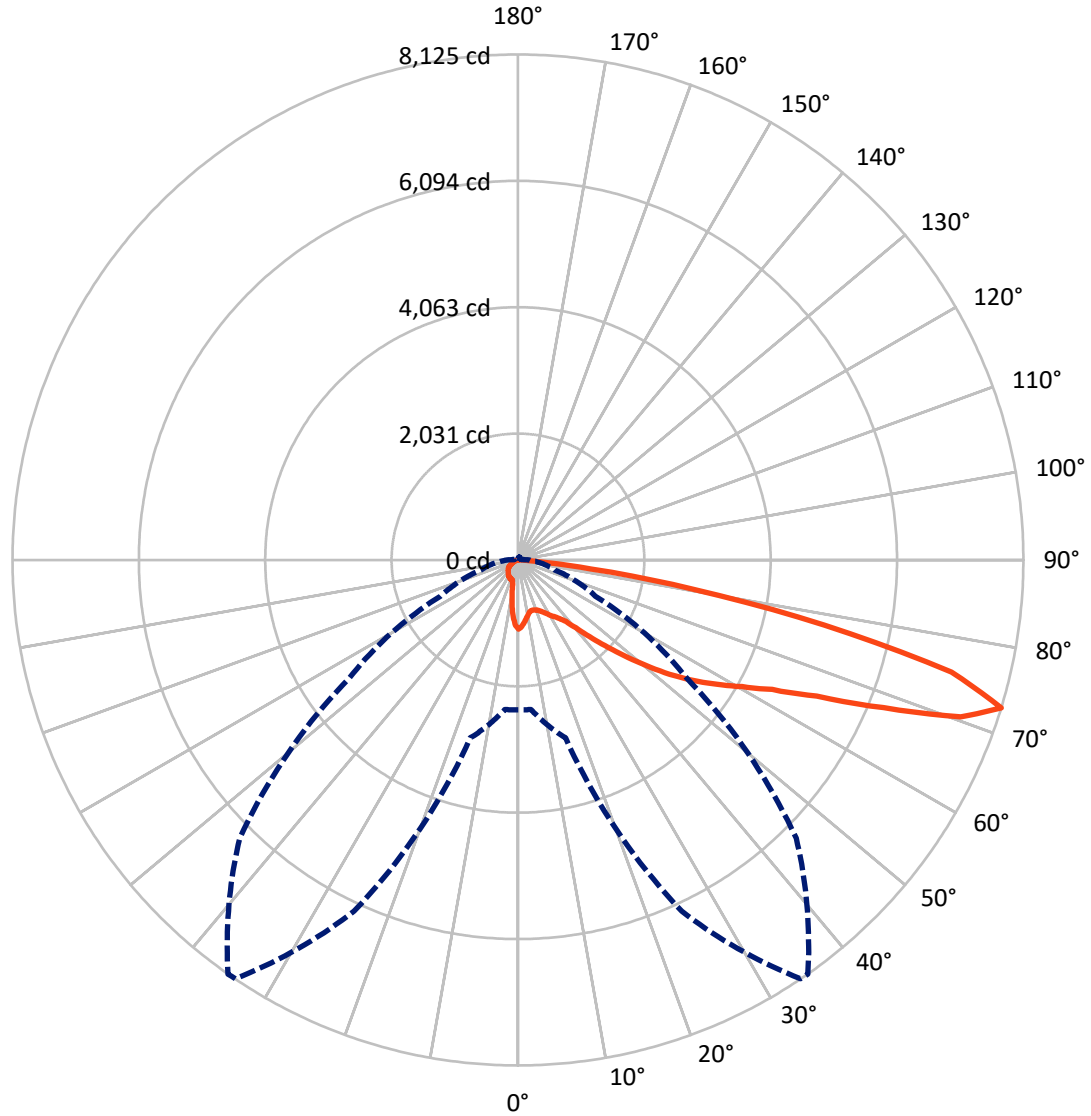
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	862.2	0.0	862.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6798.8	0.0	6798.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	7661.0	0.0	7661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.2
10°-20°	213.4	2.8
20°-30°	346.7	4.5
30°-40°	578.5	7.6
40°-50°	1094.6	14.3
50°-60°	1739.3	22.7
60°-70°	2151.6	28.1
70°-80°	1337.5	17.5
80°-90°	108.1	1.4
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°	7661.0	100.0
0°-180°	7661.0	100.0

Coefficient of Utilization



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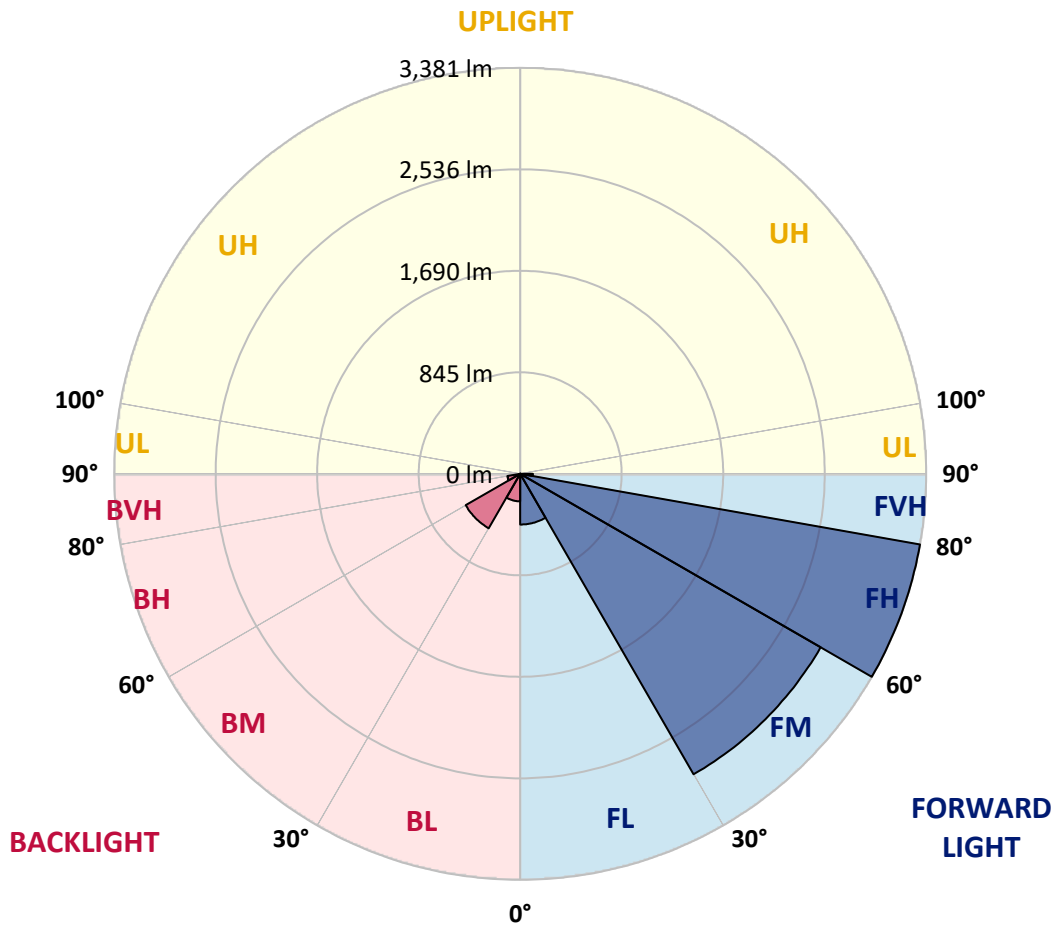
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.3	5.5			
FM (30°-60°)	2889.0	37.7			
FH (60°-80°)	3380.9	44.1			G2/5000
FVH (80°-90°)	106.6	1.4			G2/225
BL (0°-30°)	229.1	3.0	B1/500		
BM (30°-60°)	523.4	6.8	B1/1000		
BH (60°-80°)	108.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.5	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°	34°	35°	45°	55°	65°	75°
0°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1060.9	1069.9	1071.6	1074.4	1074.4	1077.8	1083.4	1091.3	1104.2	1110.9
5°	977.9	984.6	993.0	999.8	1012.7	1014.3	1036.2	1057.6	1087.3	1109.8
7.5°	894.2	902.1	913.3	929.6	946.4	951.5	984.6	1020.5	1067.7	1109.8
10°	835.3	835.8	845.9	862.2	889.2	895.3	935.8	986.8	1045.8	1103.0
12.5°	802.2	806.1	810.6	822.9	848.8	852.7	895.9	956.0	1023.9	1099.1
15°	802.2	805.0	807.8	813.9	834.7	838.1	876.3	936.3	1012.7	1100.8
17.5°	810.6	815.1	812.8	820.1	842.0	844.3	877.9	930.7	1012.1	1111.5
20°	830.8	834.2	829.7	834.2	856.0	860.5	895.3	941.4	1021.6	1130.0
22.5°	862.8	864.5	853.8	857.2	879.6	885.2	925.7	971.7	1044.7	1159.7
25°	903.2	906.6	890.3	894.2	915.5	922.3	968.9	1017.2	1081.1	1200.7
27.5°	949.8	951.5	937.4	936.9	964.4	973.9	1021.1	1073.3	1130.0	1252.4
30°	1003.1	1008.2	994.7	992.5	1027.3	1035.1	1081.7	1142.3	1201.8	1329.8
32.5°	1045.2	1049.1	1041.3	1046.9	1082.3	1088.4	1155.2	1240.0	1314.7	1439.8
35°	1105.8	1108.1	1090.1	1100.2	1140.6	1156.4	1255.7	1377.0	1456.7	1577.9
37.5°	1325.3	1325.3	1249.0	1199.0	1237.8	1251.8	1393.3	1549.3	1631.8	1763.2
40°	1629.0	1624.0	1512.3	1410.1	1405.0	1432.5	1589.2	1766.5	1858.0	1985.5
42.5°	1952.9	1945.1	1792.9	1691.9	1675.0	1684.6	1815.4	2034.3	2127.5	2256.6
45°	2240.3	2238.1	2098.9	1963.0	1932.7	1963.0	2097.7	2347.5	2414.3	2550.2
47.5°	2481.1	2481.1	2379.5	2290.8	2275.1	2293.1	2480.0	2695.0	2688.8	2862.8
50°	2758.4	2756.2	2659.6	2621.5	2637.7	2663.0	2920.1	3061.0	2972.9	3169.9
52.5°	2952.7	2966.1	2933.0	2926.8	3009.9	3053.7	3366.9	3419.1	3227.2	3461.2
55°	3106.5	3122.2	3160.4	3203.6	3363.6	3420.8	3799.7	3758.8	3439.9	3713.8
57.5°	3324.3	3301.8	3360.8	3446.1	3704.9	3773.9	4219.1	4079.3	3611.1	3918.7
60°	3588.7	3592.0	3602.1	3709.9	4045.6	4134.3	4632.2	4382.4	3721.1	4044.5
62.5°	3906.4	3911.4	3932.2	4097.8	4503.1	4586.7	5072.3	4630.5	3771.7	4009.1
65°	3884.5	3905.8	4137.7	4704.1	5198.6	5281.1	5585.9	4804.5	3695.3	3685.8
67.5°	3538.7	3573.5	3961.4	5428.2	6247.2	6339.2	6206.8	4838.8	3365.8	2866.2
70°	3085.1	3097.5	3564.0	6079.3	7461.4	7554.5	6762.5	4462.1	2554.1	1598.7
72.5°	2409.3	2412.1	2959.4	6230.3	8120.4	8125.4	6326.3	3312.5	1373.6	614.1
75°	1721.1	1704.2	1982.1	5052.6	7144.2	7201.5	4742.8	1553.8	524.9	290.2
77.5°	922.8	941.4	1121.6	2996.4	4935.3	5033.0	2587.8	448.0	267.2	197.6
80°	285.2	300.9	459.7	1371.9	2795.5	2854.4	959.3	199.3	186.4	140.9
82.5°	89.8	93.2	214.4	576.5	1160.3	1187.2	277.9	112.8	127.4	93.2
85°	25.8	26.4	95.4	215.0	286.8	292.5	78.0	43.8	73.0	57.8
87.5°	2.8	9.0	35.9	35.9	25.3	24.7	8.4	9.5	20.8	7.3
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°
1110.3	0°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
1115.4	2.5°	1112.6	1113.1	1105.8	1093.5	1080.0	1068.8	1054.8	1043.5	1035.7	1033.4
1125.5	5°	1120.4	1116.5	1095.7	1058.1	1013.2	974.5	931.3	897.0	874.6	865.0
1136.2	7.5°	1132.2	1121.0	1075.5	1001.4	915.5	839.2	761.7	701.7	663.5	644.4
1146.3	10°	1142.3	1119.9	1041.9	919.5	788.1	672.5	568.1	495.7	455.2	436.2
1158.0	12.5°	1151.9	1119.3	998.1	822.4	644.4	503.0	405.9	369.9	358.7	354.8
1177.1	15°	1169.8	1121.0	943.1	711.2	501.3	380.0	344.7	344.1	346.3	345.2
1206.3	17.5°	1194.5	1122.7	880.7	593.3	386.8	335.1	333.4	338.5	341.9	340.2
1242.8	20°	1226.5	1129.4	814.5	476.6	332.3	323.9	327.8	332.3	335.1	332.3
1291.6	22.5°	1271.4	1141.2	742.1	382.8	314.9	317.2	320.5	325.6	328.4	324.5
1354.0	25°	1326.5	1159.7	670.8	332.9	306.5	309.3	314.4	320.0	323.3	319.4
1432.5	27.5°	1397.7	1189.5	605.1	321.6	298.1	299.8	307.1	315.5	320.0	314.9
1544.3	30°	1501.0	1238.3	548.4	326.7	293.0	289.1	299.2	311.0	316.0	311.5
1696.4	32.5°	1638.0	1307.4	513.6	334.6	290.8	276.7	286.3	301.4	309.9	307.1
1895.1	35°	1817.6	1412.3	500.2	343.5	289.1	263.8	270.6	286.8	301.4	304.2
2145.5	37.5°	2035.4	1558.3	504.1	347.5	284.0	253.2	256.5	270.6	289.7	298.6
2427.2	40°	2283.0	1728.4	526.5	343.5	278.4	244.2	244.7	255.4	272.3	285.7
2730.4	42.5°	2538.4	1927.1	568.1	328.9	273.4	236.3	234.6	241.9	253.2	262.7
3032.9	45°	2781.5	2131.4	609.1	308.7	267.2	228.5	224.5	227.3	229.6	233.5
3327.6	47.5°	2993.6	2275.1	597.3	290.2	258.8	219.5	212.7	211.6	204.9	204.3
3590.9	50°	3140.2	2306.6	530.5	271.7	246.4	209.4	198.7	192.0	180.2	174.6
3787.9	52.5°	3186.7	2182.5	433.4	253.2	226.2	195.9	180.8	170.1	155.5	150.4
3901.3	55°	3125.0	1939.4	346.3	230.7	198.2	177.9	161.1	147.1	135.3	129.1
3913.7	57.5°	2974.0	1630.1	273.9	204.3	168.4	157.7	140.9	126.9	116.8	110.6
3776.7	60°	2723.6	1294.5	216.7	172.9	143.7	135.8	118.4	109.5	100.5	93.2
3423.1	62.5°	2343.6	924.0	170.1	137.0	120.1	111.1	101.0	94.3	83.6	73.5
2787.1	65°	1828.9	565.3	131.4	100.5	96.6	92.1	85.9	79.7	66.8	56.7
1818.2	67.5°	1153.6	267.8	93.7	75.8	76.3	74.1	71.3	66.2	56.7	47.7
814.5	70°	508.0	129.7	61.7	57.8	56.7	56.7	58.9	57.3	48.3	39.9
282.9	72.5°	172.9	69.6	46.0	43.8	41.0	40.4	49.4	47.7	38.7	30.9
140.9	75°	90.4	46.6	33.7	31.4	24.7	29.8	39.3	37.0	27.5	20.2
93.2	77.5°	58.9	33.1	23.0	20.2	14.0	19.6	29.2	25.8	16.3	10.1
61.2	80°	37.0	21.9	13.5	9.5	6.7	10.7	15.7	11.2	6.2	2.2
35.9	82.5°	19.6	11.2	5.1	3.4	2.8	3.4	3.9	2.8	1.1	0.0
18.5	85°	7.9	3.9	1.7	1.1	0.6	0.0	1.1	0.6	0.0	0.0
3.4	87.5°	2.8	0.6	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>
1110.3
1037.4
868.4
647.2
436.7
353.6
344.7
339.6
331.8
323.9
318.8
314.9
311.0
307.1
304.2
300.9
290.2
266.6
235.8
203.8
175.1
149.9
129.1
109.5
91.5
71.9
55.0
46.6
38.2
29.2
18.5
9.0
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