

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: P945979

Luminaire Tested: **GALN-SB1D-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7780 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

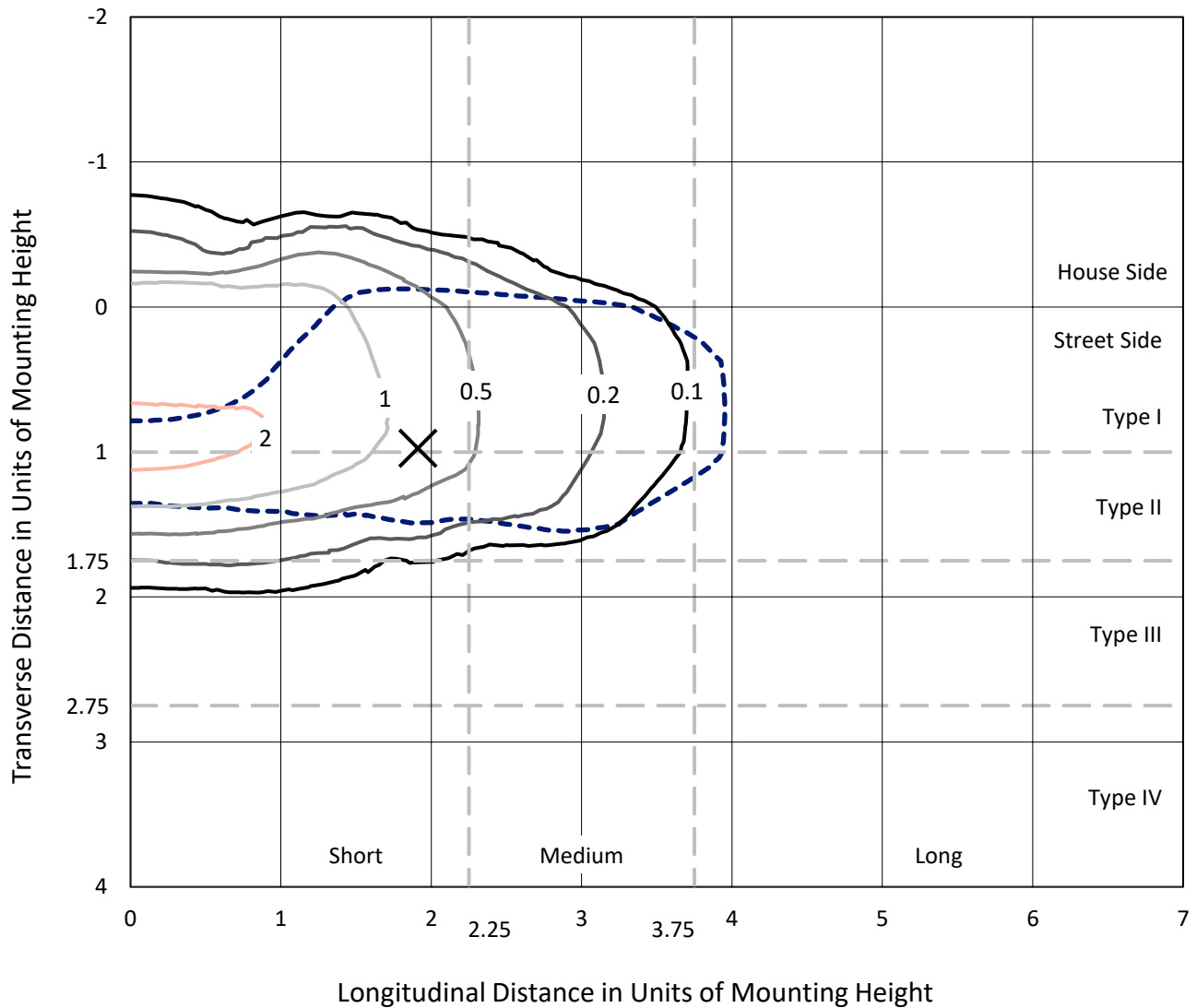
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

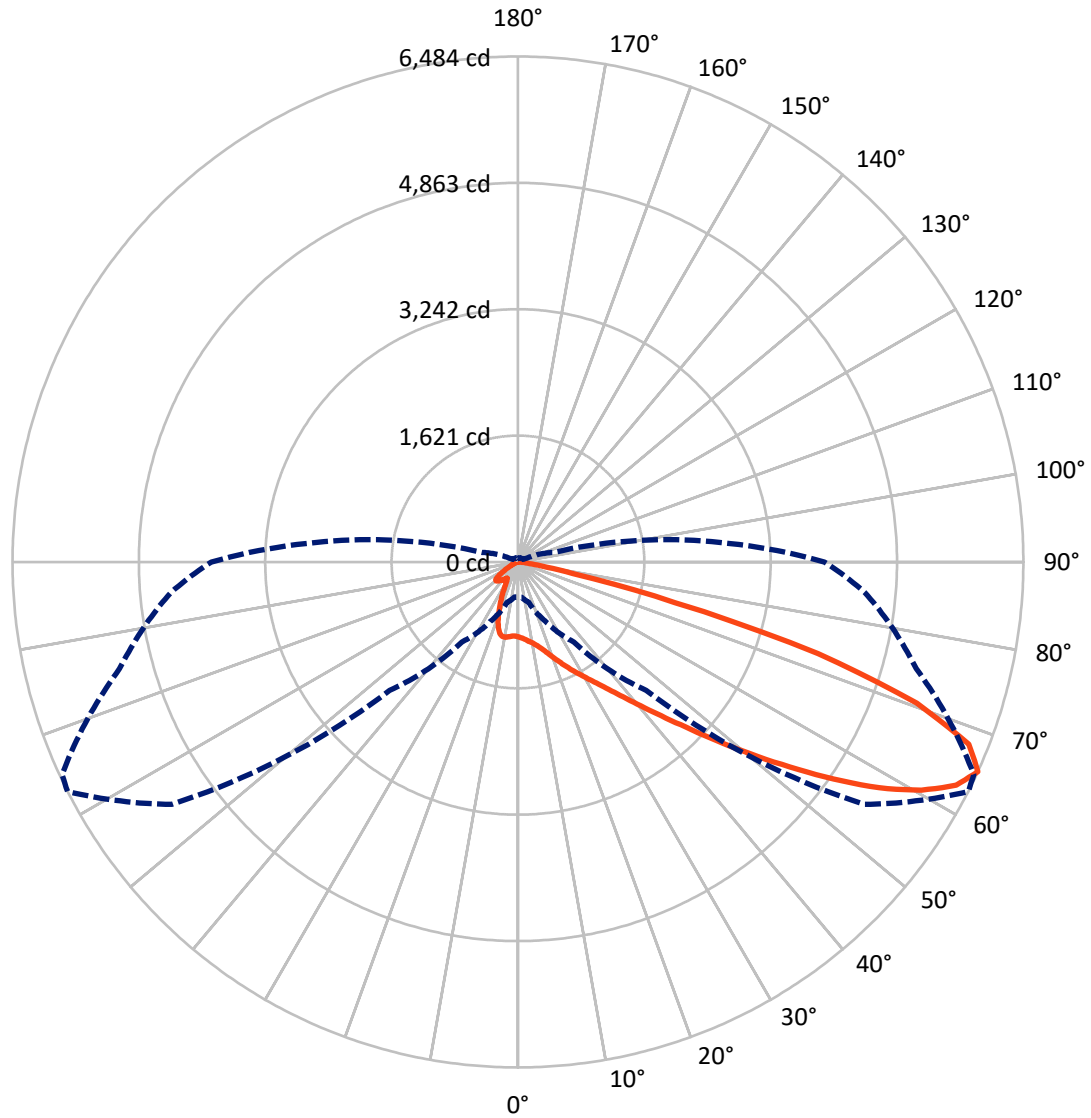
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.6	0.0	1143.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6636.4	0.0	6636.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	7780.0	0.0	7780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.2
10°-20°	251.0	3.2
20°-30°	437.1	5.6
30°-40°	787.8	10.1
40°-50°	1562.5	20.1
50°-60°	2128.3	27.4
60°-70°	1698.8	21.8
70°-80°	768.8	9.9
80°-90°	55.3	0.7
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°	7780.0	100.0
0°-180°	7780.0	100.0

Coefficient of Utilization



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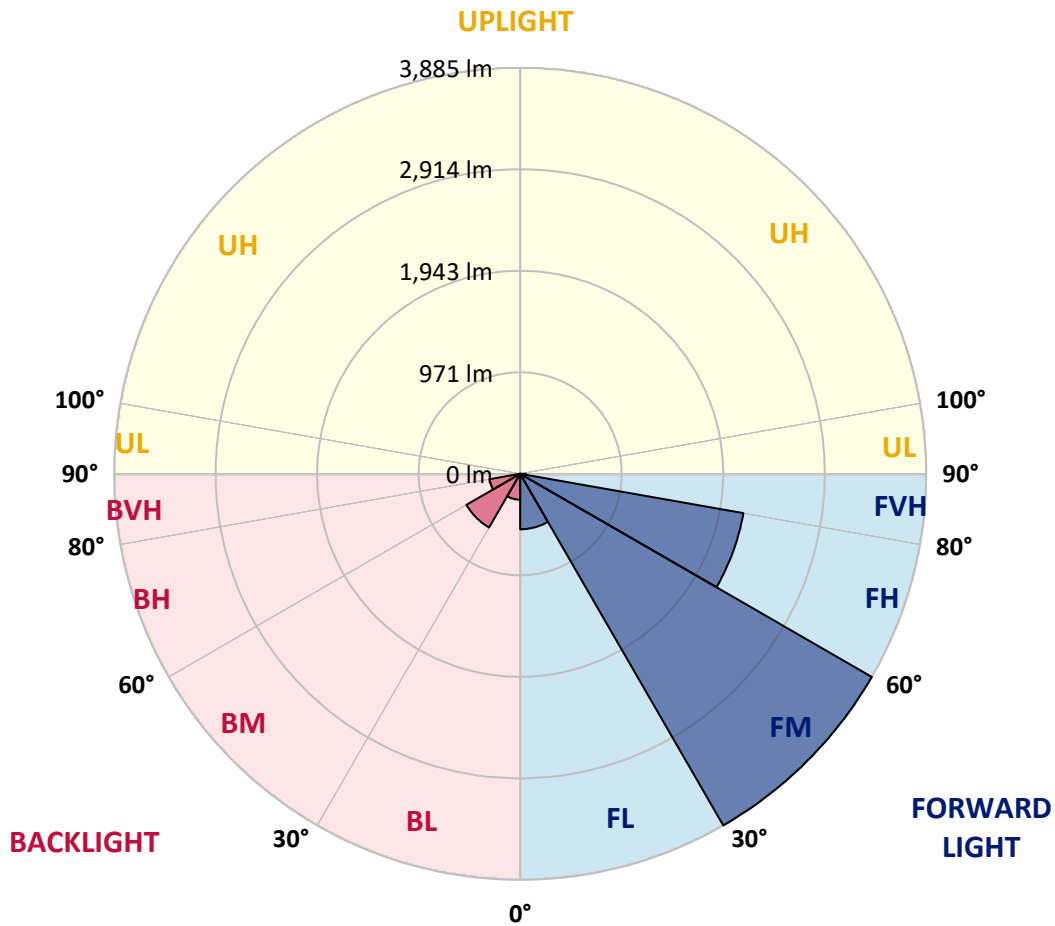
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.1	6.8			
FM (30°-60°)	3885.1	49.9			
FH (60°-80°)	2169.0	27.9			G2/5000
FVH (80°-90°)	51.2	0.7			G1/100
BL (0°-30°)	247.5	3.2	B1/500		
BM (30°-60°)	593.5	7.6	B1/1000		
BH (60°-80°)	298.6	3.8	B1/500		G1/500
BVH (80°-90°)	4.1	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	960.2	960.2	960.2	960.2	960.2	960.2	960.2	960.2	960.2	960.2
2.5°	982.7	980.0	983.7	982.1	981.1	978.9	977.9	976.8	974.7	973.0
5°	985.4	983.7	987.5	990.7	993.9	997.1	998.7	1000.9	998.7	994.5
7.5°	962.9	961.8	969.8	979.5	993.9	1006.2	1019.6	1027.1	1027.6	1026.0
10°	961.3	958.6	966.6	978.4	997.1	1019.1	1042.6	1058.7	1060.8	1067.8
12.5°	986.4	983.7	995.0	1007.8	1027.1	1050.1	1079.0	1101.5	1104.7	1114.3
15°	1028.7	1025.0	1037.8	1054.4	1079.0	1105.2	1135.8	1156.1	1158.8	1170.5
17.5°	1077.9	1074.2	1089.2	1106.9	1133.6	1169.5	1204.8	1227.3	1230.5	1238.0
20°	1141.1	1136.3	1148.1	1164.1	1192.5	1235.3	1277.6	1309.7	1309.2	1309.2
22.5°	1214.4	1206.9	1217.1	1230.0	1256.7	1308.6	1364.8	1402.8	1402.8	1387.8
25°	1293.1	1285.6	1296.9	1308.6	1332.2	1391.1	1456.9	1504.0	1506.1	1480.4
27.5°	1391.6	1382.0	1390.5	1404.4	1418.4	1478.3	1556.4	1611.0	1612.1	1572.5
30°	1581.1	1553.8	1527.0	1512.0	1518.4	1577.9	1661.3	1721.8	1727.2	1672.6
32.5°	1927.9	1922.5	1828.3	1705.2	1641.0	1684.9	1778.6	1851.4	1854.6	1784.5
35°	2466.9	2460.4	2309.0	2074.5	1865.3	1828.3	1920.9	2007.1	2005.0	1925.8
37.5°	3110.2	3104.3	2904.7	2591.0	2252.2	2045.1	2104.5	2195.0	2208.4	2104.5
40°	3659.9	3637.9	3511.6	3209.2	2766.1	2404.8	2365.7	2425.7	2439.6	2316.5
42.5°	4076.3	4057.6	3993.3	3804.4	3388.0	2936.8	2673.5	2696.5	2712.0	2564.3
45°	4292.0	4287.7	4313.4	4295.7	4021.7	3589.8	3113.4	3017.6	3023.5	2838.8
47.5°	4322.5	4320.4	4437.6	4603.5	4566.6	4326.2	3678.1	3418.0	3397.1	3148.7
50°	4142.7	4138.4	4363.2	4674.1	4930.5	4945.0	4319.3	3869.2	3823.1	3469.3
52.5°	3568.4	3567.3	3936.6	4454.2	5058.4	5486.6	4953.0	4364.8	4287.7	3808.7
55°	2745.7	2765.5	3188.9	3800.7	4825.1	5747.3	5521.9	4915.0	4796.7	4150.2
57.5°	1945.0	1973.9	2392.5	2937.3	4101.5	5593.1	5906.8	5466.3	5338.9	4490.6
60°	1044.8	1070.5	1489.5	2139.8	3051.3	5018.3	6109.6	5944.8	5824.4	4813.8
62.5°	622.5	631.0	804.4	1381.4	2063.8	3833.8	6023.5	6309.3	6210.3	5085.2
65°	446.9	448.5	535.8	843.5	1253.0	2329.3	5419.2	6483.8	6453.2	5289.7
67.5°	376.3	375.2	411.6	560.4	853.7	1166.8	4153.4	6237.0	6366.5	5419.2
70°	322.7	324.3	367.2	410.5	641.7	660.5	2064.9	5430.4	5706.6	5453.4
72.5°	240.3	245.7	285.3	374.1	484.4	454.4	712.9	4026.5	4525.9	5138.2
75°	169.7	172.3	200.7	314.7	361.3	330.8	364.0	2081.5	2721.6	3939.3
77.5°	130.6	135.4	152.0	220.0	355.9	232.3	222.7	720.4	1106.9	2379.6
80°	70.7	79.2	109.7	159.0	250.0	164.3	110.3	286.9	375.2	1112.7
82.5°	36.4	40.7	76.5	114.5	142.4	143.4	54.6	119.4	154.7	343.6
85°	14.5	17.7	51.4	63.2	73.3	70.7	24.6	48.2	55.7	95.3
87.5°	3.2	5.4	18.7	14.5	13.9	15.0	5.9	11.2	10.7	11.2
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°
960.2	0°	960.2	960.2	960.2	960.2	960.2	960.2	960.2	960.2	960.2	960.2
966.6	2.5°	966.1	963.9	958.1	951.6	944.1	939.9	937.2	936.6	932.9	930.2
988.0	5°	982.1	980.0	968.8	955.4	940.9	929.7	919.0	909.4	895.4	892.8
1019.1	7.5°	1014.3	1008.4	990.2	972.0	944.7	912.0	872.4	826.9	786.2	773.9
1060.3	10°	1053.9	1045.8	1022.8	990.7	930.2	841.4	745.6	656.7	586.1	566.3
1109.0	12.5°	1098.8	1091.9	1061.4	1001.9	869.7	708.6	562.0	451.7	383.2	366.1
1160.9	15°	1152.3	1142.2	1099.9	984.8	761.6	538.4	385.9	320.6	296.0	292.8
1220.3	17.5°	1209.1	1192.5	1134.1	923.3	616.0	382.7	298.1	279.4	268.7	265.5
1280.3	20°	1261.0	1239.6	1154.5	830.1	460.3	298.1	267.1	254.8	245.1	241.4
1340.2	22.5°	1312.9	1282.4	1154.5	703.3	345.2	264.4	245.1	233.9	222.7	217.8
1404.4	25°	1367.0	1326.3	1134.1	562.0	277.8	242.5	224.3	212.0	202.3	196.4
1465.5	27.5°	1419.4	1363.2	1087.6	428.2	247.3	223.2	205.0	193.2	184.1	179.8
1531.8	30°	1469.2	1399.6	1022.3	324.9	227.5	204.5	187.3	177.2	168.1	163.8
1618.0	32.5°	1536.6	1445.7	952.7	266.5	210.3	186.8	171.3	161.6	153.6	150.4
1729.9	35°	1630.3	1513.6	892.8	261.7	195.9	172.3	156.8	147.7	139.7	137.0
1874.4	37.5°	1763.0	1623.3	861.2	293.8	184.1	159.5	145.0	135.4	127.9	125.8
2058.0	40°	1926.8	1772.1	878.3	326.0	176.1	148.3	134.3	124.7	118.3	115.6
2268.8	42.5°	2121.1	1955.7	973.0	350.6	170.7	138.6	124.2	113.5	109.2	108.1
2508.1	45°	2344.3	2157.5	1118.1	376.8	162.2	129.5	114.0	106.0	102.8	102.2
2768.2	47.5°	2598.0	2379.1	1286.2	409.4	153.6	121.0	106.0	100.6	97.9	96.9
3039.6	50°	2849.6	2602.3	1459.0	427.6	146.7	112.9	99.6	95.3	93.1	92.6
3326.4	52.5°	3112.9	2831.9	1598.7	410.5	140.8	106.5	94.2	91.0	88.8	88.3
3590.8	55°	3363.9	3017.6	1622.8	348.4	129.0	100.1	88.3	86.7	84.0	84.0
3859.0	57.5°	3580.1	3110.7	1452.6	255.8	117.2	90.5	82.4	80.8	78.7	78.1
4100.9	60°	3778.7	3084.0	1121.3	172.3	104.4	80.8	74.9	73.9	71.7	69.0
4311.3	62.5°	3890.6	2966.2	767.0	112.4	91.5	70.7	66.4	65.8	61.0	55.7
4467.0	65°	3932.9	2724.3	478.5	81.9	76.5	60.5	57.3	56.2	49.2	43.4
4555.3	67.5°	3895.9	2326.1	241.4	64.8	60.5	50.3	47.1	47.1	42.3	36.9
4550.0	70°	3748.2	1743.8	101.7	51.9	46.6	38.5	38.5	40.7	35.9	30.0
4313.9	72.5°	3427.6	1173.2	54.1	39.6	34.8	27.3	31.6	33.2	28.4	22.5
3530.9	75°	2724.8	715.6	37.5	29.4	21.9	19.3	24.1	25.2	19.3	15.0
2420.8	77.5°	1863.7	411.1	25.2	18.7	13.9	11.2	16.6	15.5	10.2	7.0
933.4	80°	818.4	171.3	14.5	8.6	5.4	4.3	5.9	4.3	3.2	2.1
127.9	82.5°	95.8	40.1	5.4	3.2	2.1	1.1	0.5	0.0	0.0	0.0
39.1	85°	19.8	4.8	2.7	1.1	0.5	0.0	0.0	0.0	0.0	0.0
7.0	87.5°	3.7	1.1	0.5	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>
960.2
932.9
891.7
768.1
558.8
361.3
289.6
263.9
239.2
215.2
194.3
179.8
164.3
150.4
137.0
125.2
115.1
108.1
101.7
96.9
92.6
88.3
83.5
77.6
68.5
54.6
42.8
36.4
29.4
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