

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: P939636

Luminaire Tested: **GALN-SB2B-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7680 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

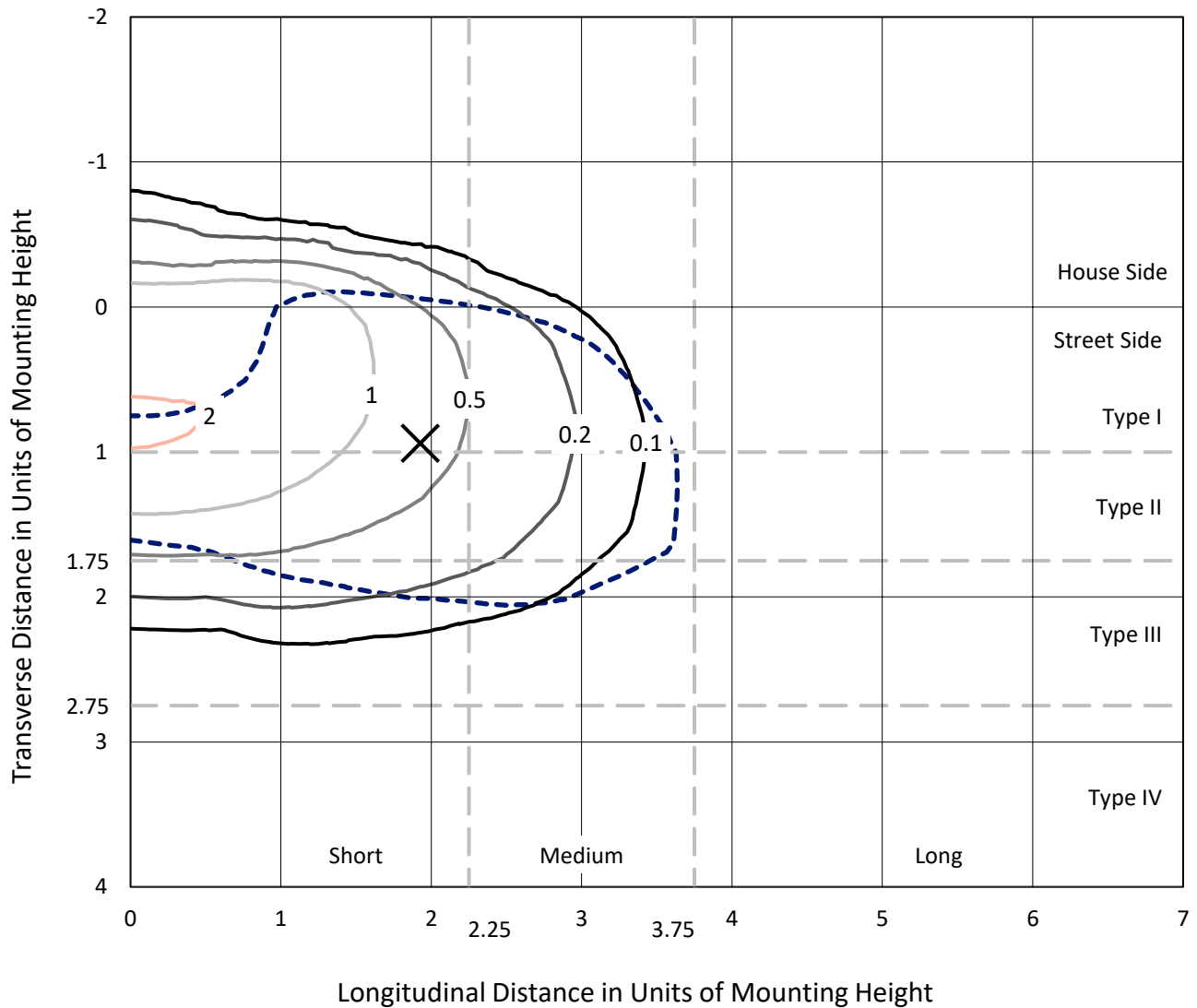
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

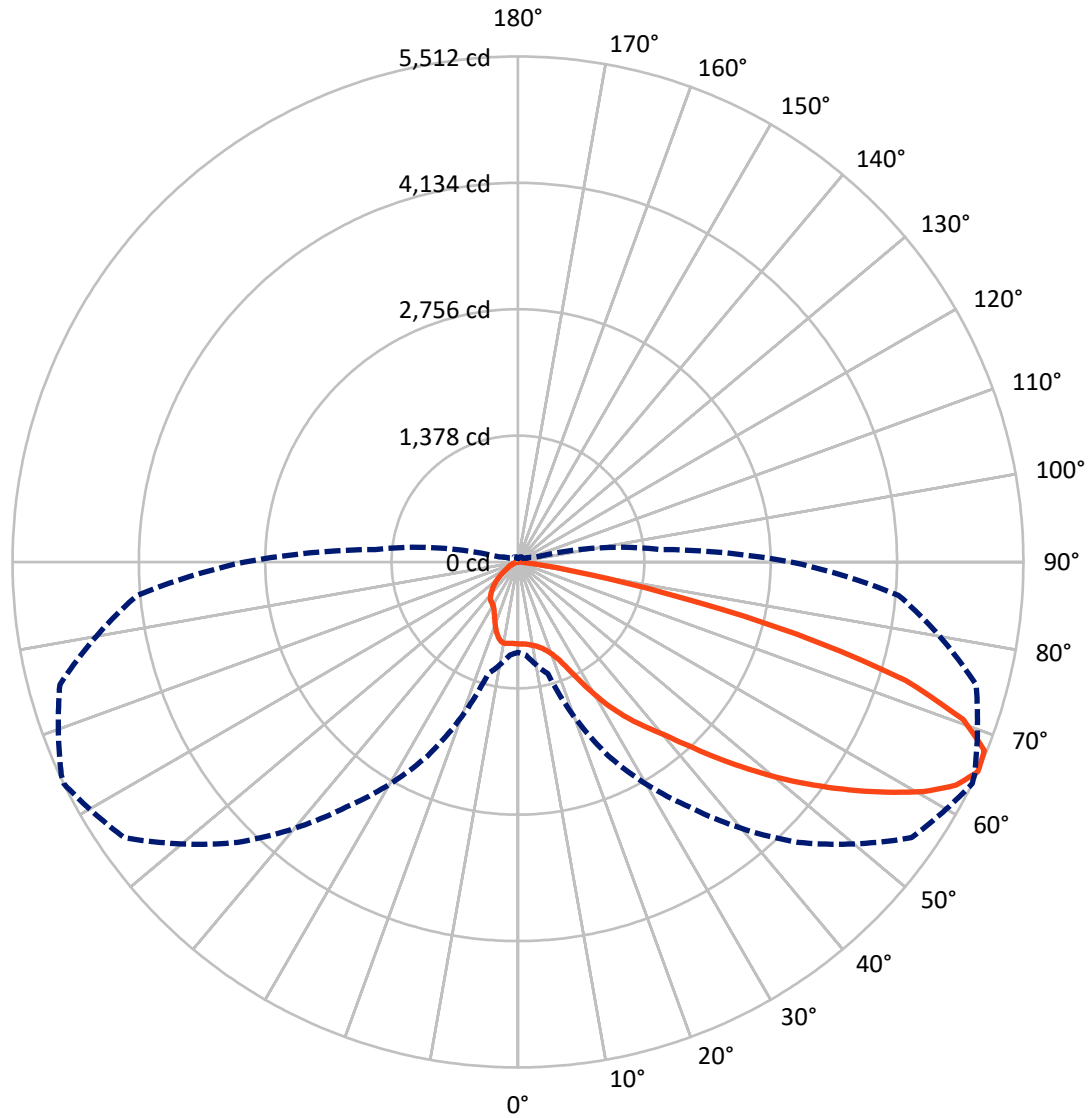
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.1	0.0	1027.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6652.9	0.0	6652.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	7680.0	0.0	7680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.1
10°-20°	223.5	2.9
20°-30°	423.6	5.5
30°-40°	857.1	11.2
40°-50°	1460.1	19.0
50°-60°	1985.6	25.9
60°-70°	1864.6	24.3
70°-80°	747.0	9.7
80°-90°	36.2	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°	7680.0	100.0
0°-180°	7680.0	100.0

Coefficient of Utilization



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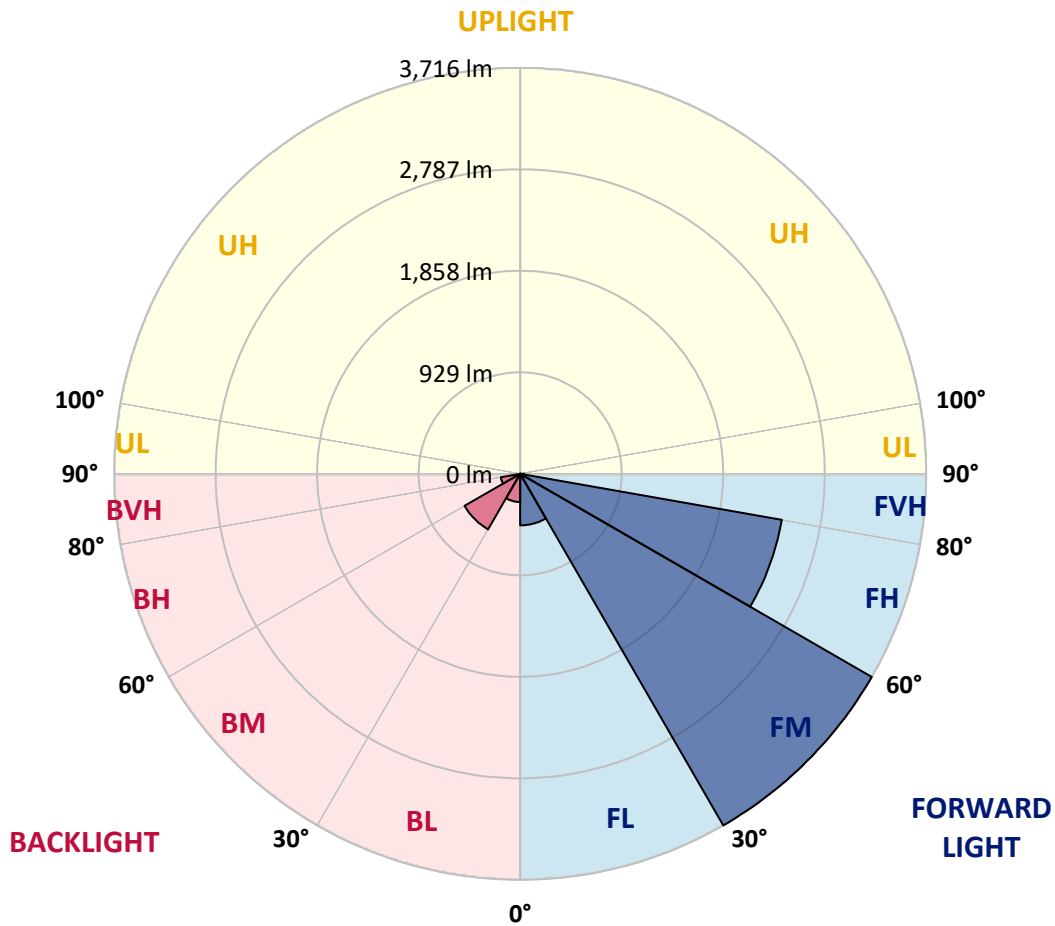
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.6	6.1			
FM (30°-60°)	3715.6	48.4			
FH (60°-80°)	2431.3	31.7			G2/5000
FVH (80°-90°)	34.4	0.4			G1/100
BL (0°-30°)	257.9	3.4	B1/500		
BM (30°-60°)	587.2	7.6	B1/1000		
BH (60°-80°)	180.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.8	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	893.3	893.3	893.3	893.3	893.3	893.3	893.3	893.3	893.3	893.3
2.5°	890.2	896.4	894.8	893.3	892.7	893.8	894.3	893.8	893.8	893.8
5°	873.2	878.3	878.3	881.9	887.1	893.3	897.9	898.9	900.0	901.5
7.5°	840.7	844.9	848.0	859.8	872.7	889.1	903.0	910.3	911.3	916.9
10°	818.6	823.8	828.9	841.3	859.8	884.5	908.2	925.7	928.3	941.7
12.5°	817.6	822.7	829.4	842.8	864.4	890.7	919.5	944.7	949.4	968.9
15°	828.4	834.6	840.7	857.2	880.4	912.3	943.2	974.6	979.2	1007.0
17.5°	850.5	858.8	863.4	879.9	904.6	940.1	980.8	1016.8	1020.9	1053.4
20°	894.3	904.1	905.6	919.0	943.2	981.3	1029.7	1074.5	1079.6	1116.7
22.5°	984.9	998.8	986.5	993.1	1014.8	1052.9	1105.4	1162.0	1169.2	1211.4
25°	1144.5	1164.1	1132.2	1120.8	1130.1	1169.7	1235.6	1307.2	1315.4	1349.4
27.5°	1458.1	1432.8	1384.4	1337.1	1309.3	1331.9	1406.1	1494.6	1504.9	1537.9
30°	1802.5	1780.3	1715.0	1609.9	1544.0	1540.4	1608.9	1707.8	1719.6	1751.0
32.5°	2147.4	2126.3	2055.3	1926.1	1811.8	1755.1	1802.5	1912.2	1918.3	1938.4
35°	2486.7	2465.1	2394.0	2261.7	2121.2	1992.5	1983.2	2106.8	2108.8	2129.9
37.5°	2828.1	2810.0	2734.4	2604.6	2466.1	2288.5	2202.5	2291.1	2293.7	2314.2
40°	3071.6	3079.3	3027.3	2926.9	2808.0	2613.9	2448.6	2487.2	2471.8	2506.3
42.5°	3280.6	3296.1	3250.8	3200.3	3131.3	2960.4	2753.4	2746.7	2722.0	2740.5
45°	3461.3	3474.2	3433.5	3421.7	3420.1	3300.2	3086.5	3046.4	3011.9	3008.3
47.5°	3527.7	3552.5	3570.0	3609.6	3686.8	3636.4	3431.0	3368.7	3330.0	3301.7
50°	3553.0	3579.2	3639.0	3754.3	3937.1	3958.7	3773.8	3703.8	3656.5	3605.0
52.5°	3519.0	3565.8	3646.2	3840.3	4105.4	4217.1	4102.8	4041.6	3987.5	3903.6
55°	3318.7	3365.6	3529.8	3839.2	4189.3	4398.4	4413.8	4386.5	4325.8	4193.4
57.5°	2896.5	2966.0	3226.0	3708.5	4187.8	4554.4	4718.6	4738.2	4670.2	4480.7
60°	2311.7	2405.9	2723.0	3418.6	4058.6	4638.8	4985.8	5083.6	5011.5	4763.9
62.5°	1613.0	1722.2	2022.3	2964.5	3763.0	4578.0	5180.9	5361.6	5307.1	5017.2
65°	983.9	1018.9	1260.9	2332.8	3260.5	4323.7	5241.2	5512.0	5494.0	5172.2
67.5°	655.4	684.7	754.3	1599.6	2531.0	3815.5	5097.0	5485.7	5490.9	5146.9
70°	394.9	420.1	465.4	930.3	1640.3	3020.1	4650.6	5151.1	5180.9	4809.7
72.5°	162.7	179.7	220.9	421.7	849.5	1916.8	3703.3	4422.6	4492.1	4044.1
75°	92.2	100.9	129.7	211.6	368.6	893.3	2243.2	3139.6	3242.0	2787.4
77.5°	61.3	65.4	83.9	136.9	207.5	304.8	958.6	1635.7	1831.3	1522.4
80°	41.2	44.8	57.7	91.6	134.9	130.8	305.3	606.0	745.5	523.1
82.5°	27.8	28.3	41.2	60.2	85.5	63.3	90.1	188.4	236.8	151.4
85°	16.0	15.4	30.4	35.0	38.1	26.3	27.3	56.6	74.1	63.8
87.5°	2.1	3.1	11.8	9.3	5.1	5.7	5.7	9.8	14.4	15.4
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°
893.3	0°	893.3	893.3	893.3	893.3	893.3	893.3	893.3	893.3	893.3	893.3
894.3	2.5°	894.3	893.8	892.2	890.7	887.1	885.0	886.1	885.0	884.5	885.0
901.0	5°	901.0	899.4	895.3	890.2	883.0	874.2	868.6	860.3	852.6	848.0
919.0	7.5°	919.0	917.5	911.8	897.4	874.2	837.7	804.2	774.8	752.7	739.8
947.8	10°	947.8	945.3	936.5	904.6	843.8	764.0	697.6	642.5	606.5	589.5
981.8	12.5°	981.8	978.7	963.3	897.9	786.2	661.6	569.9	508.7	475.2	460.3
1020.9	15°	1022.0	1017.9	987.5	866.0	702.3	548.3	464.4	418.6	396.9	383.6
1070.9	17.5°	1071.9	1064.7	1005.5	818.1	611.1	461.8	399.5	365.0	346.0	333.1
1136.3	20°	1136.8	1124.9	1019.9	760.9	527.2	407.2	355.8	326.9	312.5	301.2
1228.9	22.5°	1227.4	1210.4	1037.4	699.2	468.0	369.7	323.3	302.2	290.4	277.5
1358.2	25°	1339.6	1319.6	1059.0	642.0	427.3	337.2	299.6	282.1	268.2	253.3
1527.6	27.5°	1496.7	1460.6	1084.8	595.2	392.3	309.4	278.0	258.5	242.5	230.1
1719.6	30°	1671.7	1612.5	1107.4	566.8	360.4	283.7	249.7	230.1	215.2	206.5
1892.1	32.5°	1837.5	1757.2	1122.4	554.5	331.6	254.3	218.8	197.7	186.4	183.8
2060.9	35°	1994.0	1888.0	1120.8	542.7	305.8	225.0	188.4	166.8	158.1	159.6
2242.7	37.5°	2174.2	2027.5	1110.0	524.1	284.7	198.2	162.2	143.1	135.4	135.9
2463.6	40°	2383.8	2188.6	1103.3	489.1	261.5	173.5	140.6	125.1	119.4	117.4
2696.3	42.5°	2607.2	2344.6	1104.4	449.5	232.7	151.4	125.6	112.8	107.6	106.1
2955.2	45°	2831.7	2493.4	1105.9	408.3	202.3	134.4	114.8	104.0	100.9	98.9
3217.8	47.5°	3042.8	2620.1	1077.1	364.0	172.5	121.5	106.1	98.9	96.3	93.7
3481.4	50°	3239.4	2704.5	1007.6	312.5	148.8	111.2	99.4	94.2	91.6	89.1
3720.3	52.5°	3392.3	2717.9	892.7	259.5	132.3	103.5	95.2	90.6	87.5	85.0
3913.4	55°	3460.3	2634.0	729.5	210.1	119.4	96.8	91.1	86.5	82.9	80.3
4065.3	57.5°	3442.8	2457.4	568.9	168.9	107.1	90.1	86.0	82.9	78.8	74.7
4188.3	60°	3356.8	2221.1	428.9	140.6	95.8	82.9	80.3	77.7	72.1	65.9
4235.7	62.5°	3208.0	1924.0	305.8	116.4	83.4	74.7	73.6	71.6	63.3	52.0
4165.6	65°	2980.5	1563.1	205.9	96.8	71.6	65.4	65.9	62.3	51.5	38.6
3909.3	67.5°	2647.9	1143.0	131.8	79.3	59.7	54.6	55.1	53.0	43.8	33.0
3423.2	70°	2224.1	756.8	86.0	60.2	47.9	42.2	45.3	45.8	37.1	26.8
2627.3	72.5°	1630.5	446.9	60.2	44.8	35.0	29.3	37.1	38.1	29.9	20.1
1580.6	75°	929.3	212.1	45.3	32.4	21.6	20.6	28.8	28.8	20.6	13.4
684.2	77.5°	390.3	88.6	31.9	21.1	12.4	11.8	19.6	18.0	10.3	6.2
166.8	80°	112.8	39.6	17.0	10.3	5.1	4.6	7.7	5.7	2.6	1.0
63.3	82.5°	44.3	17.5	6.7	4.1	2.1	2.1	1.0	0.0	0.0	0.0
36.0	85°	26.3	7.2	3.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	6.7	1.5	1.0	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>
893.3
887.1
849.0
740.4
588.0
458.7
384.1
332.1
299.1
275.4
251.8
227.6
204.9
185.3
159.6
138.0
116.9
105.5
98.9
93.7
89.1
84.4
79.8
74.1
64.9
51.0
37.6
31.4
25.7
19.0
12.4
6.2
1.0
0.0
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