

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: P938828

Luminaire Tested: **GALN-SB1A-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938828
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-SB1A-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3250 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

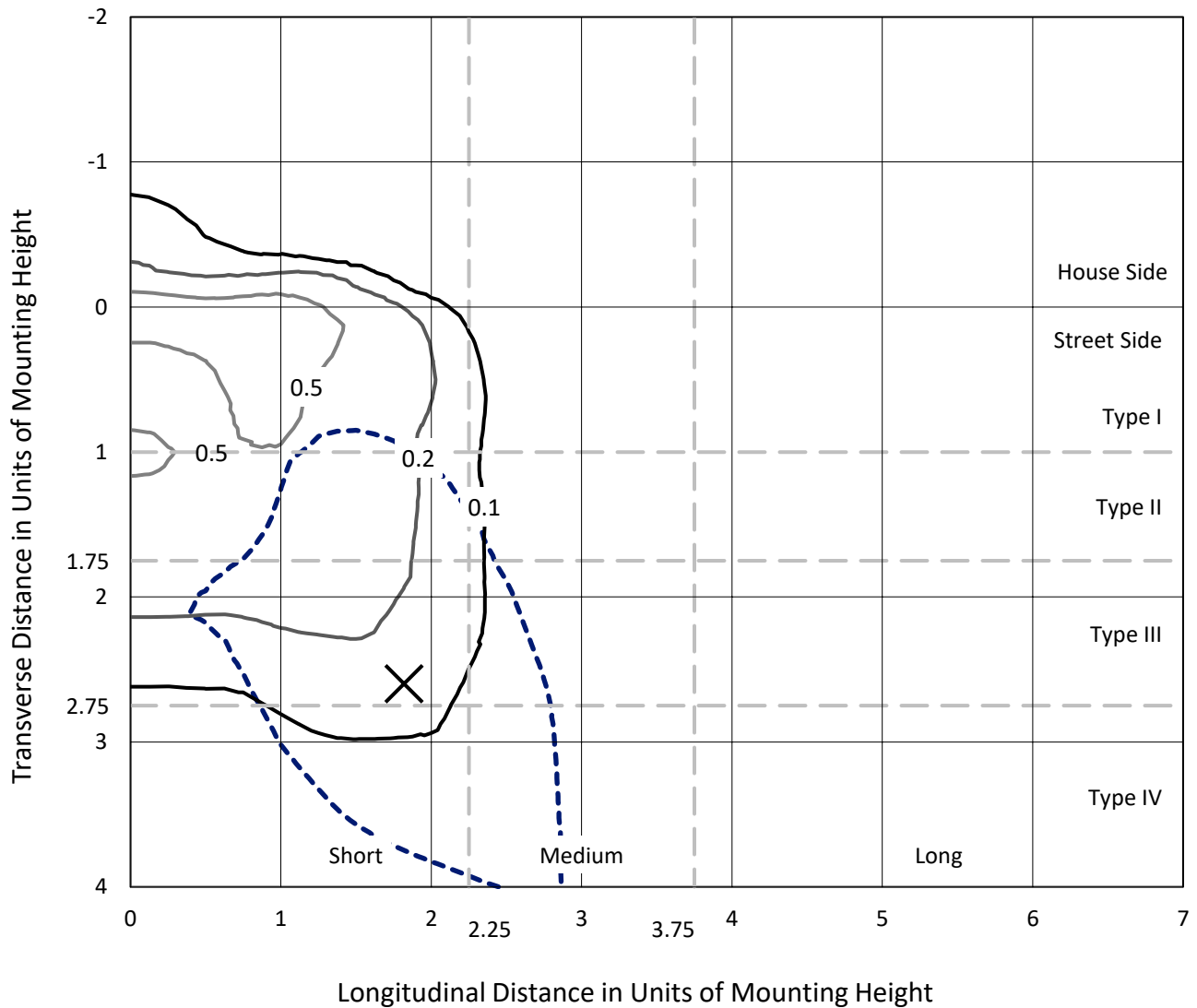
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

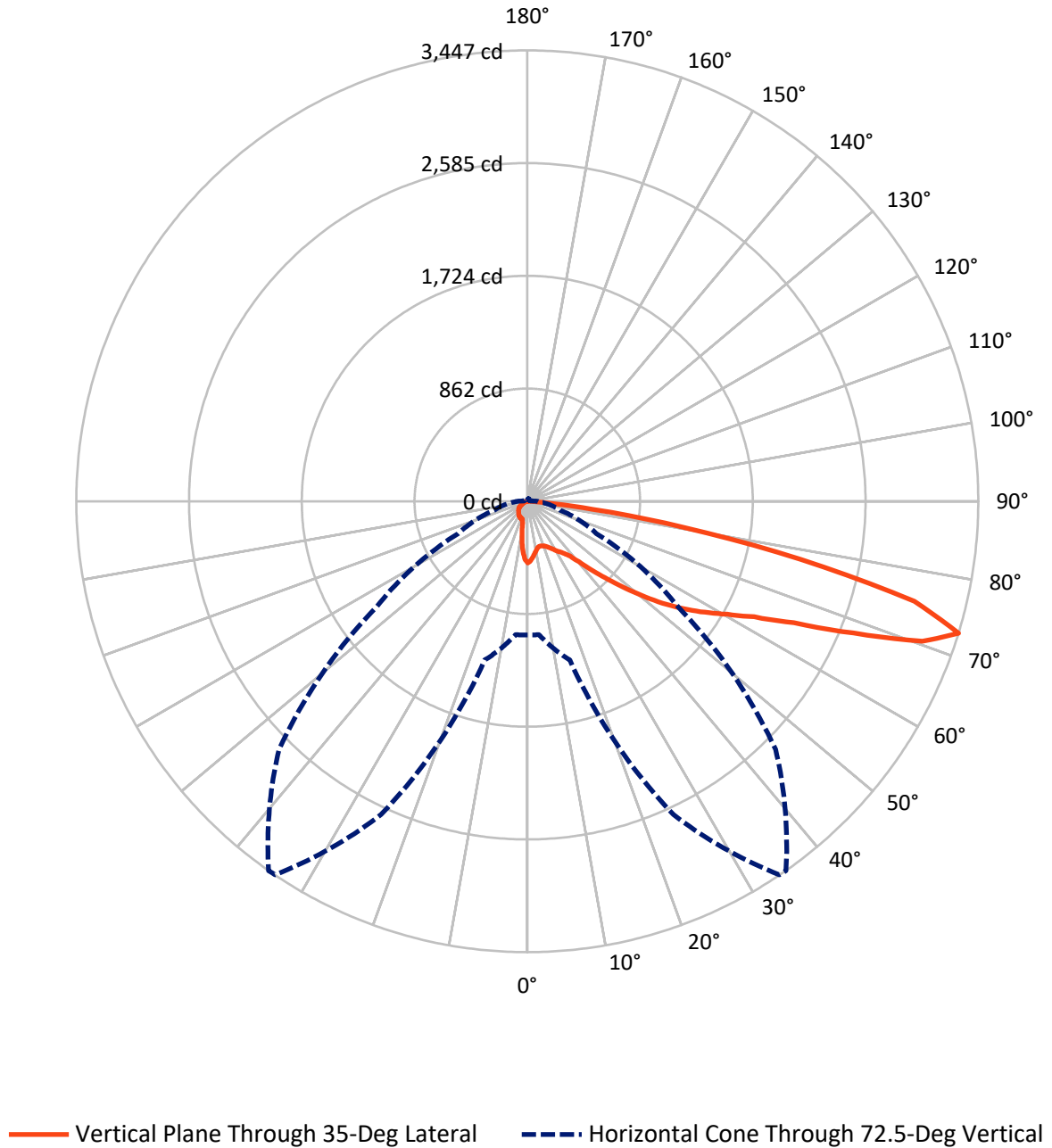
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	365.8	0.0	365.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	2884.2	0.0	2884.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	3250.0	0.0	3250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.2
10°-20°	90.6	2.8
20°-30°	147.1	4.5
30°-40°	245.4	7.6
40°-50°	464.4	14.3
50°-60°	737.8	22.7
60°-70°	912.8	28.1
70°-80°	567.4	17.5
80°-90°	45.9	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°	3250.0	100.0
0°-180°	3250.0	100.0

Coefficient of Utilization



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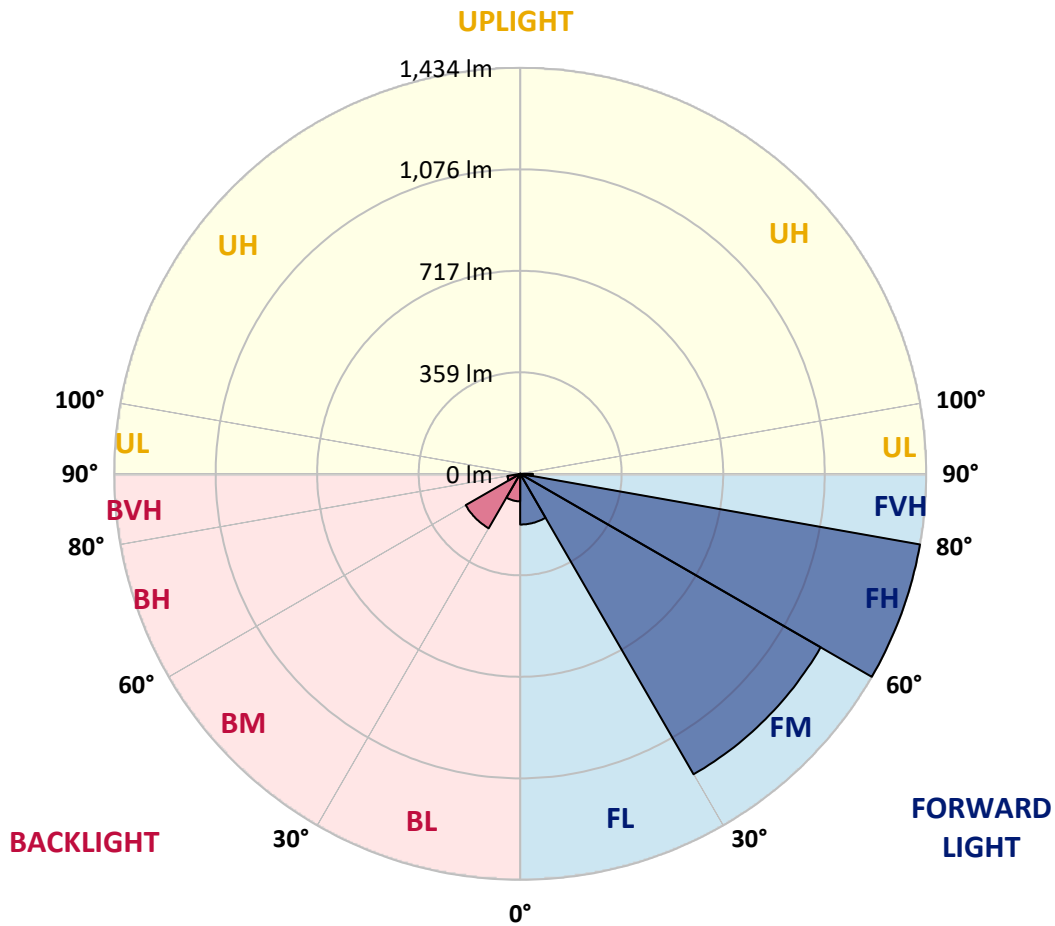
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.2	5.5			
FM (30°-60°)	1225.6	37.7			
FH (60°-80°)	1434.3	44.1			G1/1800
FVH (80°-90°)	45.2	1.4			G1/100
BL (0°-30°)	97.2	3.0	B0/110		
BM (30°-60°)	222.1	6.8	B1/1000		
BH (60°-80°)	45.9	1.4	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0
2.5°	450.1	453.9	454.6	455.8	455.8	457.2	459.6	462.9	468.4	471.3
5°	414.8	417.7	421.3	424.1	429.6	430.3	439.6	448.6	461.3	470.8
7.5°	379.4	382.7	387.4	394.4	401.5	403.6	417.7	432.9	452.9	470.8
10°	354.3	354.6	358.9	365.8	377.2	379.8	397.0	418.6	443.6	467.9
12.5°	340.3	342.0	343.9	349.1	360.1	361.7	380.1	405.5	434.4	466.3
15°	340.3	341.5	342.7	345.3	354.1	355.5	371.7	397.2	429.6	467.0
17.5°	343.9	345.8	344.8	347.9	357.2	358.2	372.4	394.8	429.4	471.5
20°	352.4	353.9	352.0	353.9	363.2	365.1	379.8	399.4	433.4	479.4
22.5°	366.0	366.7	362.2	363.6	373.2	375.5	392.7	412.2	443.2	492.0
25°	383.2	384.6	377.7	379.4	388.4	391.3	411.0	431.5	458.7	509.4
27.5°	402.9	403.6	397.7	397.4	409.1	413.2	433.2	455.3	479.4	531.3
30°	425.5	427.7	422.0	421.0	435.8	439.1	458.9	484.6	509.9	564.1
32.5°	443.4	445.1	441.7	444.1	459.1	461.7	490.1	526.0	557.7	610.8
35°	469.1	470.1	462.5	466.7	483.9	490.6	532.7	584.1	618.0	669.4
37.5°	562.2	562.2	529.9	508.7	525.1	531.0	591.1	657.3	692.3	748.0
40°	691.1	688.9	641.5	598.2	596.1	607.7	674.2	749.4	788.2	842.3
42.5°	828.5	825.1	760.6	717.7	710.6	714.6	770.1	863.0	902.5	957.3
45°	950.4	949.5	890.4	832.8	819.9	832.8	889.9	995.9	1024.2	1081.9
47.5°	1052.6	1052.6	1009.5	971.8	965.2	972.8	1052.1	1143.3	1140.7	1214.5
50°	1170.2	1169.3	1128.3	1112.1	1119.0	1129.7	1238.8	1298.6	1261.2	1344.8
52.5°	1252.6	1258.3	1244.3	1241.6	1276.9	1295.5	1428.3	1450.5	1369.0	1468.3
55°	1317.8	1324.5	1340.7	1359.0	1426.9	1451.2	1611.9	1594.6	1459.3	1575.5
57.5°	1410.2	1400.7	1425.7	1461.9	1571.7	1601.0	1789.8	1730.5	1531.9	1662.4
60°	1522.4	1523.8	1528.1	1573.8	1716.2	1753.9	1965.1	1859.1	1578.6	1715.8
62.5°	1657.2	1659.3	1668.1	1738.4	1910.3	1945.8	2151.8	1964.4	1600.0	1700.8
65°	1647.9	1657.0	1755.3	1995.6	2205.4	2240.4	2369.7	2038.2	1567.7	1563.6
67.5°	1501.2	1516.0	1680.5	2302.8	2650.2	2689.3	2633.1	2052.7	1427.9	1215.9
70°	1308.8	1314.0	1511.9	2579.0	3165.3	3204.8	2868.8	1892.9	1083.5	678.2
72.5°	1022.1	1023.3	1255.5	2643.1	3444.9	3447.0	2683.8	1405.2	582.7	260.5
75°	730.1	723.0	840.9	2143.5	3030.8	3055.1	2012.0	659.2	222.7	123.1
77.5°	391.5	399.4	475.8	1271.2	2093.7	2135.1	1097.8	190.0	113.4	83.8
80°	121.0	127.6	195.0	582.0	1185.9	1210.9	407.0	84.5	79.1	59.8
82.5°	38.1	39.5	91.0	244.6	492.2	503.7	117.9	47.9	54.1	39.5
85°	11.0	11.2	40.5	91.2	121.7	124.1	33.1	18.6	31.0	24.5
87.5°	1.2	3.8	15.2	15.2	10.7	10.5	3.6	4.0	8.8	3.1
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°
471.0	0°	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0
473.2	2.5°	472.0	472.2	469.1	463.9	458.2	453.4	447.5	442.7	439.4	438.4
477.5	5°	475.3	473.7	464.8	448.9	429.8	413.4	395.1	380.5	371.0	367.0
482.0	7.5°	480.3	475.6	456.3	424.8	388.4	356.0	323.2	297.7	281.5	273.4
486.3	10°	484.6	475.1	442.0	390.1	334.3	285.3	241.0	210.3	193.1	185.0
491.3	12.5°	488.7	474.8	423.4	348.9	273.4	213.4	172.2	156.9	152.2	150.5
499.4	15°	496.3	475.6	400.1	301.7	212.7	161.2	146.2	146.0	146.9	146.5
511.8	17.5°	506.8	476.3	373.6	251.7	164.1	142.2	141.5	143.6	145.0	144.3
527.2	20°	520.3	479.1	345.5	202.2	141.0	137.4	139.1	141.0	142.2	141.0
548.0	22.5°	539.4	484.1	314.8	162.4	133.6	134.5	136.0	138.1	139.3	137.6
574.4	25°	562.7	492.0	284.6	141.2	130.0	131.2	133.4	135.7	137.2	135.5
607.7	27.5°	593.0	504.6	256.7	136.5	126.5	127.2	130.3	133.8	135.7	133.6
655.1	30°	636.8	525.3	232.7	138.6	124.3	122.6	126.9	131.9	134.1	132.2
719.6	32.5°	694.9	554.6	217.9	141.9	123.4	117.4	121.4	127.9	131.5	130.3
803.9	35°	771.1	599.2	212.2	145.7	122.6	111.9	114.8	121.7	127.9	129.1
910.2	37.5°	863.5	661.1	213.8	147.4	120.5	107.4	108.8	114.8	122.9	126.7
1029.7	40°	968.5	733.2	223.4	145.7	118.1	103.6	103.8	108.4	115.5	121.2
1158.3	42.5°	1076.9	817.5	241.0	139.5	116.0	100.3	99.5	102.6	107.4	111.4
1286.7	45°	1180.0	904.2	258.4	131.0	113.4	96.9	95.3	96.4	97.4	99.1
1411.7	47.5°	1270.0	965.2	253.4	123.1	109.8	93.1	90.3	89.8	86.9	86.7
1523.4	50°	1332.1	978.5	225.0	115.3	104.5	88.8	84.3	81.4	76.4	74.1
1606.9	52.5°	1351.9	925.9	183.8	107.4	96.0	83.1	76.7	72.2	66.0	63.8
1655.0	55°	1325.7	822.8	146.9	97.9	84.1	75.5	68.3	62.4	57.4	54.8
1660.3	57.5°	1261.6	691.5	116.2	86.7	71.4	66.9	59.8	53.8	49.5	46.9
1602.2	60°	1155.4	549.1	91.9	73.3	61.0	57.6	50.2	46.4	42.6	39.5
1452.2	62.5°	994.2	392.0	72.2	58.1	51.0	47.2	42.9	40.0	35.5	31.2
1182.3	65°	775.8	239.8	55.7	42.6	41.0	39.1	36.4	33.8	28.3	24.1
771.3	67.5°	489.4	113.6	39.8	32.1	32.4	31.4	30.2	28.1	24.1	20.2
345.5	70°	215.5	55.0	26.2	24.5	24.1	24.1	25.0	24.3	20.5	16.9
120.0	72.5°	73.3	29.5	19.5	18.6	17.4	17.1	21.0	20.2	16.4	13.1
59.8	75°	38.3	19.8	14.3	13.3	10.5	12.6	16.7	15.7	11.7	8.6
39.5	77.5°	25.0	14.1	9.8	8.6	6.0	8.3	12.4	11.0	6.9	4.3
26.0	80°	15.7	9.3	5.7	4.0	2.9	4.5	6.7	4.8	2.6	1.0
15.2	82.5°	8.3	4.8	2.1	1.4	1.2	1.4	1.7	1.2	0.5	0.0
7.9	85°	3.3	1.7	0.7	0.5	0.2	0.0	0.5	0.2	0.0	0.0
1.4	87.5°	1.2	0.2	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>
471.0
440.1
368.4
274.6
185.3
150.0
146.2
144.1
140.7
137.4
135.3
133.6
131.9
130.3
129.1
127.6
123.1
113.1
100.0
86.4
74.3
63.6
54.8
46.4
38.8
30.5
23.3
19.8
16.2
12.4
7.9
3.8
0.7
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