

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: P938798

Luminaire Tested: **GALN-SB1A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938798
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-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 3053 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

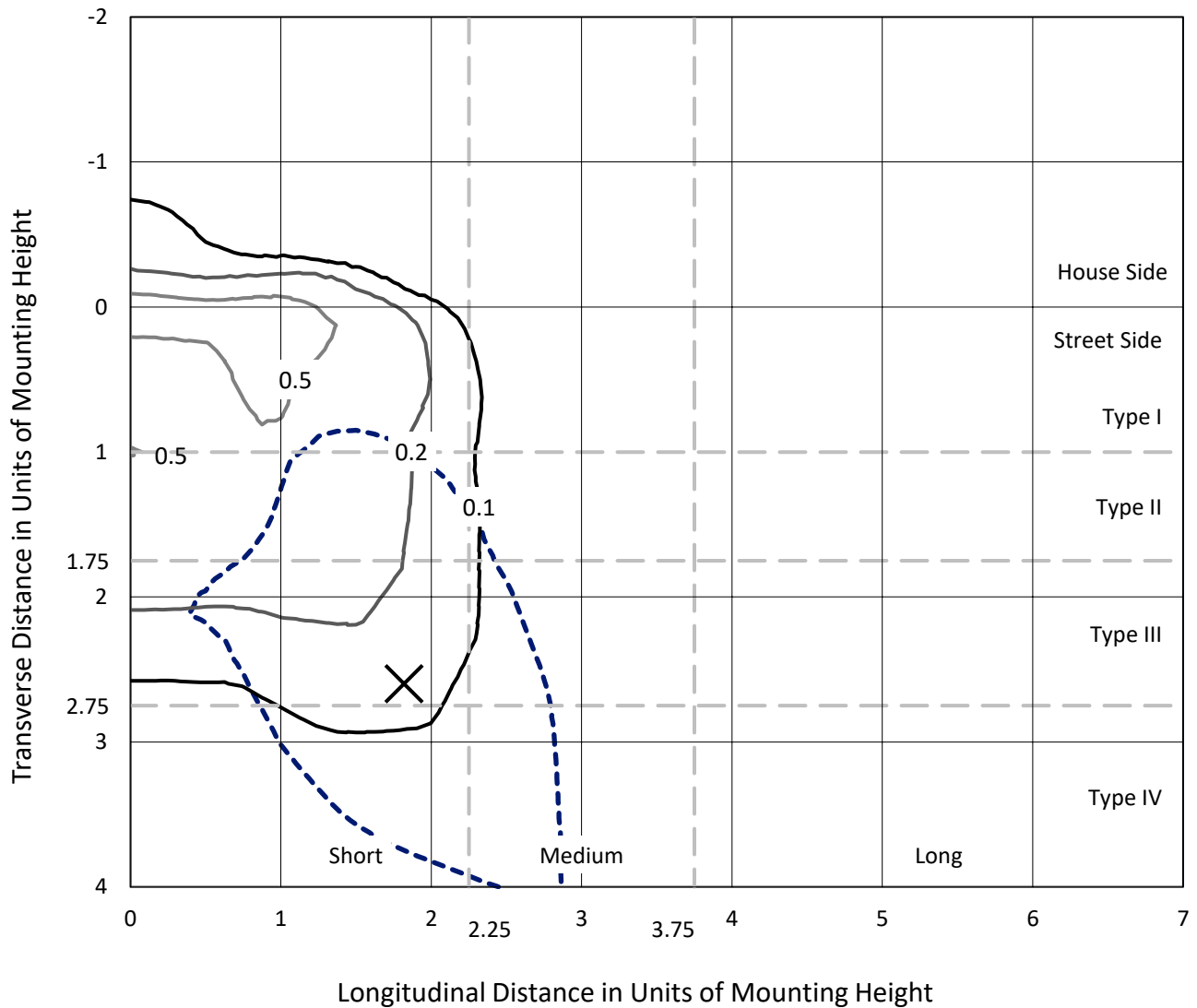
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938798
 CATALOG NUMBER: GALN-SB1A-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

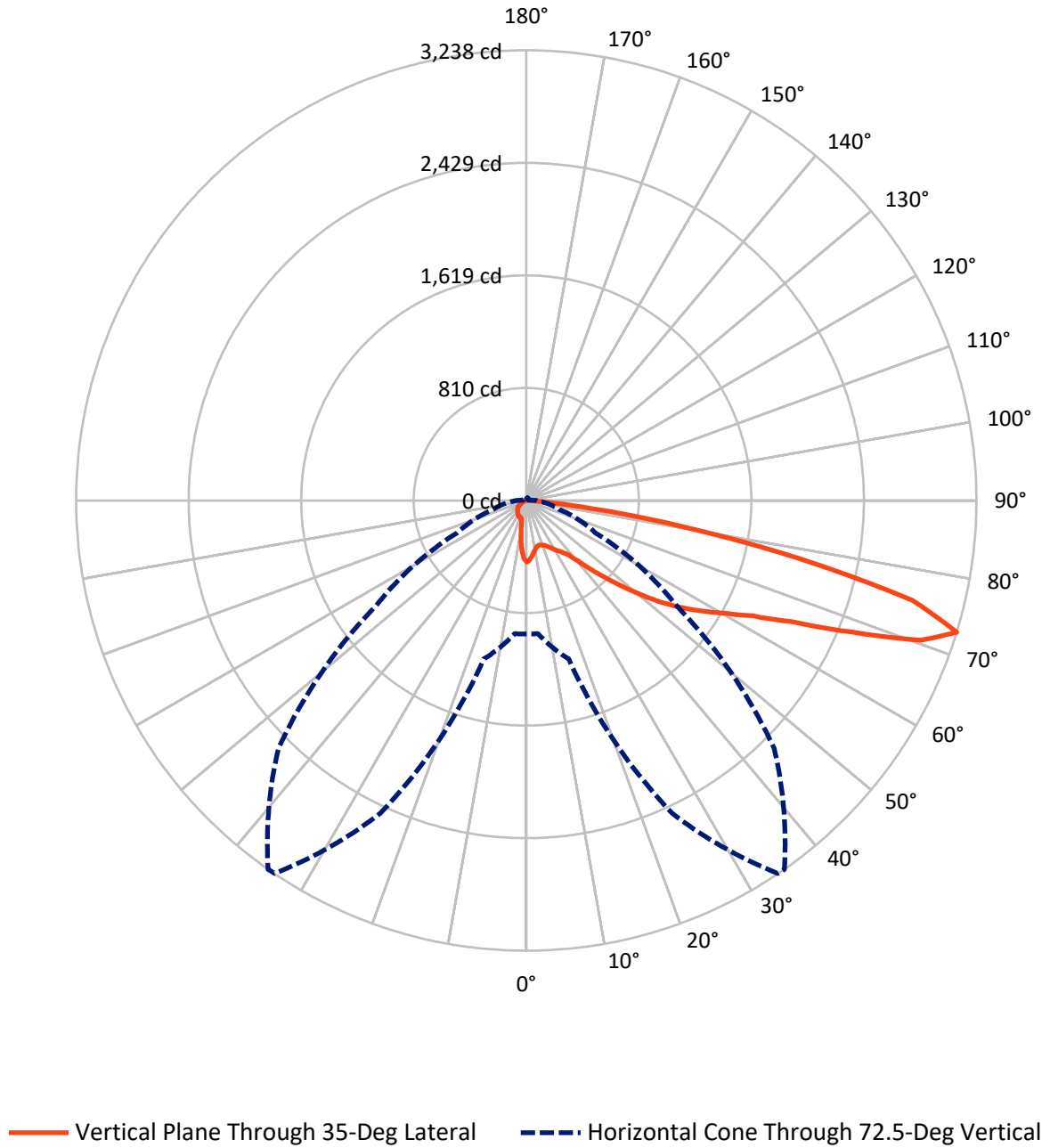
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P938798
CATALOG NUMBER: GALN-SB1A-830-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	343.6	0.0	343.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	2709.4	0.0	2709.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	3053.0	0.0	3053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	1.2
10°-20°	85.1	2.8
20°-30°	138.2	4.5
30°-40°	230.5	7.6
40°-50°	436.2	14.3
50°-60°	693.1	22.7
60°-70°	857.4	28.1
70°-80°	533.0	17.5
80°-90°	43.1	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°	3053.0	100.0
0°-180°	3053.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938798

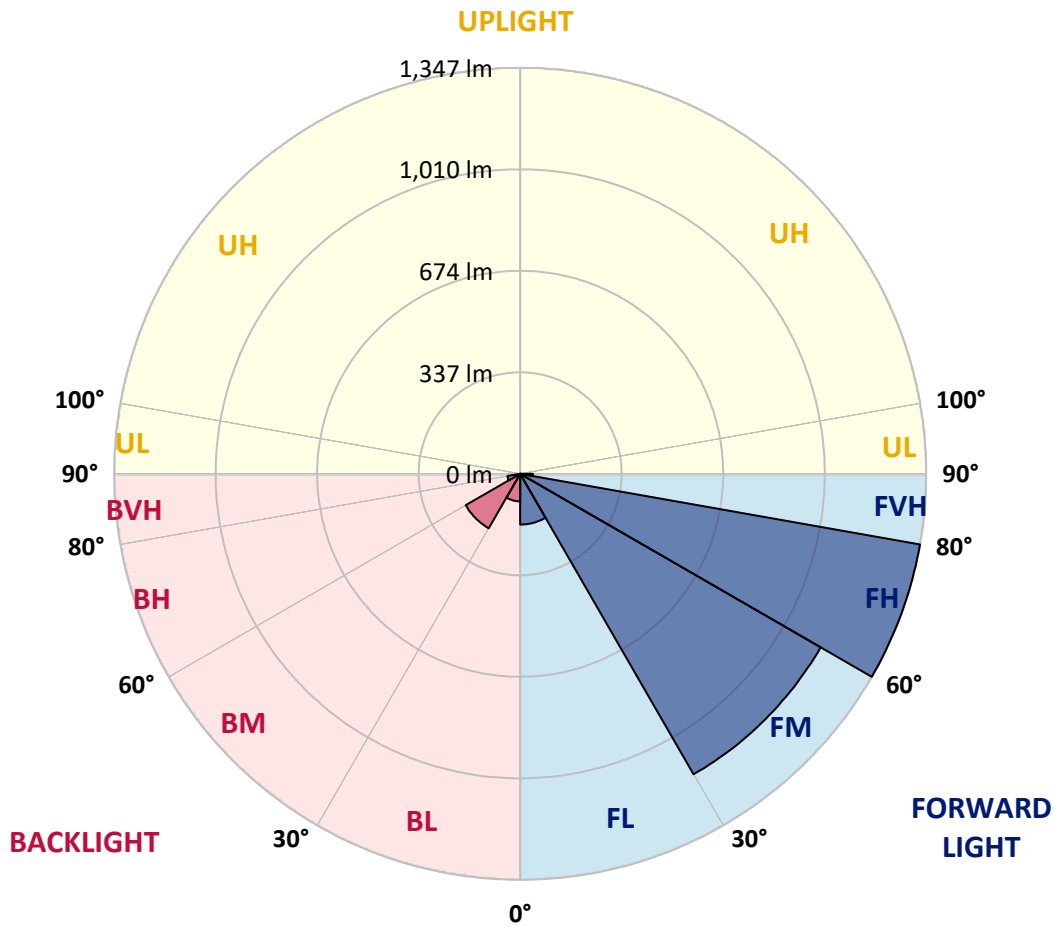
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.3	5.5			
FM (30°-60°)	1151.3	37.7			
FH (60°-80°)	1347.3	44.1			G1/1800
FVH (80°-90°)	42.5	1.4			G1/100
BL (0°-30°)	91.3	3.0	B0/110		
BM (30°-60°)	208.6	6.8	B0/220		
BH (60°-80°)	43.1	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: B0-U0-G1

Type IV Short



REPORT NUMBER: P938798
 CATALOG NUMBER: GALN-SB1A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5
2.5°	422.8	426.4	427.0	428.2	428.2	429.5	431.7	434.9	440.0	442.7
5°	389.7	392.4	395.7	398.4	403.6	404.2	413.0	421.5	433.3	442.3
7.5°	356.4	359.5	364.0	370.5	377.2	379.2	392.4	406.7	425.5	442.3
10°	332.9	333.1	337.1	343.6	354.3	356.8	372.9	393.3	416.8	439.6
12.5°	319.7	321.2	323.0	327.9	338.2	339.8	357.0	381.0	408.0	438.0
15°	319.7	320.8	321.9	324.4	332.6	334.0	349.2	373.1	403.6	438.7
17.5°	323.0	324.8	323.9	326.8	335.6	336.4	349.9	370.9	403.3	442.9
20°	331.1	332.4	330.6	332.4	341.1	342.9	356.8	375.1	407.1	450.3
22.5°	343.8	344.5	340.3	341.6	350.5	352.8	368.9	387.2	416.3	462.2
25°	359.9	361.3	354.8	356.4	364.9	367.5	386.1	405.3	430.8	478.5
27.5°	378.5	379.2	373.6	373.4	384.3	388.1	406.9	427.7	450.3	499.1
30°	399.8	401.8	396.4	395.5	409.4	412.5	431.1	455.2	478.9	529.9
32.5°	416.5	418.1	415.0	417.2	431.3	433.8	460.4	494.2	523.9	573.8
35°	440.7	441.6	434.4	438.5	454.6	460.8	500.4	548.7	580.5	628.8
37.5°	528.2	528.2	497.7	477.8	493.3	498.9	555.2	617.4	650.3	702.6
40°	649.2	647.2	602.7	561.9	559.9	570.9	633.3	704.0	740.5	791.2
42.5°	778.3	775.1	714.5	674.2	667.5	671.3	723.5	810.7	847.8	899.3
45°	892.8	891.9	836.4	782.3	770.2	782.3	836.0	935.5	962.1	1016.3
47.5°	988.8	988.8	948.3	912.9	906.7	913.8	988.3	1074.0	1071.5	1140.9
50°	1099.3	1098.4	1059.9	1044.7	1051.2	1061.2	1163.7	1219.8	1184.7	1263.2
52.5°	1176.7	1182.0	1168.8	1166.4	1199.5	1216.9	1341.8	1362.6	1286.1	1379.3
55°	1238.0	1244.2	1259.4	1276.7	1340.4	1363.2	1514.2	1497.9	1370.8	1480.0
57.5°	1324.8	1315.8	1339.3	1373.3	1476.4	1503.9	1681.3	1625.6	1439.1	1561.7
60°	1430.1	1431.5	1435.5	1478.4	1612.2	1647.6	1846.0	1746.4	1482.9	1611.8
62.5°	1556.7	1558.8	1567.0	1633.0	1794.5	1827.9	2021.4	1845.3	1503.1	1597.7
65°	1548.0	1556.5	1648.9	1874.6	2071.7	2104.6	2226.1	1914.7	1472.6	1468.8
67.5°	1410.2	1424.1	1578.7	2163.2	2489.6	2526.3	2473.5	1928.3	1341.3	1142.2
70°	1229.5	1234.4	1420.3	2422.7	2973.4	3010.6	2694.9	1778.2	1017.8	637.1
72.5°	960.1	961.2	1179.4	2482.9	3236.1	3238.1	2521.1	1320.1	547.4	244.7
75°	685.9	679.2	789.9	2013.5	2847.1	2869.9	1890.1	619.2	209.2	115.7
77.5°	367.8	375.1	447.0	1194.1	1966.8	2005.7	1031.3	178.5	106.5	78.7
80°	113.6	119.9	183.2	546.7	1114.0	1137.5	382.3	79.4	74.3	56.1
82.5°	35.8	37.1	85.5	229.7	462.4	473.1	110.7	45.0	50.8	37.1
85°	10.3	10.5	38.0	85.7	114.3	116.5	31.1	17.4	29.1	23.0
87.5°	1.1	3.6	14.3	14.3	10.1	9.8	3.4	3.8	8.3	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938798

CATALOG NUMBER: GALN-SB1A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
442.5	0°	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5
444.5	2.5°	443.4	443.6	440.7	435.8	430.4	425.9	420.3	415.9	412.7	411.8
448.5	5°	446.5	444.9	436.7	421.7	403.8	388.3	371.1	357.5	348.5	344.7
452.8	7.5°	451.2	446.7	428.6	399.1	364.9	334.4	303.6	279.6	264.4	256.8
456.8	10°	455.2	446.3	415.2	366.4	314.1	268.0	226.4	197.5	181.4	173.8
461.5	12.5°	459.0	446.1	397.7	327.7	256.8	200.4	161.7	147.4	142.9	141.4
469.1	15°	466.2	446.7	375.8	283.4	199.8	151.4	137.4	137.1	138.0	137.6
480.7	17.5°	476.0	447.4	351.0	236.5	154.1	133.5	132.9	134.9	136.2	135.6
495.3	20°	488.8	450.1	324.6	189.9	132.4	129.1	130.6	132.4	133.5	132.4
514.7	22.5°	506.7	454.8	295.7	152.6	125.5	126.4	127.7	129.7	130.9	129.3
539.6	25°	528.6	462.2	267.3	132.7	122.1	123.3	125.3	127.5	128.9	127.3
570.9	27.5°	557.0	474.0	241.2	128.2	118.8	119.5	122.4	125.7	127.5	125.5
615.4	30°	598.2	493.5	218.6	130.2	116.8	115.2	119.2	123.9	125.9	124.2
676.0	32.5°	652.8	521.0	204.7	133.3	115.9	110.3	114.1	120.1	123.5	122.4
755.2	35°	724.3	562.8	199.3	136.9	115.2	105.1	107.8	114.3	120.1	121.2
855.0	37.5°	811.1	621.0	200.9	138.5	113.2	100.9	102.2	107.8	115.4	119.0
967.3	40°	909.8	688.8	209.8	136.9	111.0	97.3	97.5	101.8	108.5	113.9
1088.1	42.5°	1011.6	768.0	226.4	131.1	108.9	94.2	93.5	96.4	100.9	104.7
1208.7	45°	1108.4	849.4	242.7	123.0	106.5	91.0	89.5	90.6	91.5	93.1
1326.1	47.5°	1193.0	906.7	238.0	115.7	103.1	87.5	84.8	84.3	81.7	81.4
1431.0	50°	1251.4	919.2	211.4	108.3	98.2	83.4	79.2	76.5	71.8	69.6
1509.5	52.5°	1270.0	869.8	172.7	100.9	90.2	78.1	72.0	67.8	62.0	60.0
1554.7	55°	1245.3	772.9	138.0	91.9	79.0	70.9	64.2	58.6	53.9	51.5
1559.6	57.5°	1185.2	649.6	109.2	81.4	67.1	62.9	56.1	50.6	46.5	44.1
1505.1	60°	1085.4	515.9	86.3	68.9	57.3	54.1	47.2	43.6	40.0	37.1
1364.1	62.5°	934.0	368.2	67.8	54.6	47.9	44.3	40.3	37.6	33.3	29.3
1110.7	65°	728.8	225.3	52.3	40.0	38.5	36.7	34.2	31.8	26.6	22.6
724.6	67.5°	459.7	106.7	37.4	30.2	30.4	29.5	28.4	26.4	22.6	19.0
324.6	70°	202.5	51.7	24.6	23.0	22.6	22.6	23.5	22.8	19.2	15.9
112.7	72.5°	68.9	27.7	18.3	17.4	16.3	16.1	19.7	19.0	15.4	12.3
56.1	75°	36.0	18.6	13.4	12.5	9.8	11.9	15.7	14.8	11.0	8.1
37.1	77.5°	23.5	13.2	9.2	8.1	5.6	7.8	11.6	10.3	6.5	4.0
24.4	80°	14.8	8.7	5.4	3.8	2.7	4.3	6.3	4.5	2.5	0.9
14.3	82.5°	7.8	4.5	2.0	1.3	1.1	1.3	1.6	1.1	0.4	0.0
7.4	85°	3.1	1.6	0.7	0.4	0.2	0.0	0.4	0.2	0.0	0.0
1.3	87.5°	1.1	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>
442.5
413.4
346.1
257.9
174.0
140.9
137.4
135.3
132.2
129.1
127.1
125.5
123.9
122.4
121.2
119.9
115.7
106.3
94.0
81.2
69.8
59.7
51.5
43.6
36.5
28.6
21.9
18.6
15.2
11.6
7.4
3.6
0.7
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