

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: P938938

Luminaire Tested: **GALN-SB1B-750-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938938
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-SB1B-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA 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: 4512 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

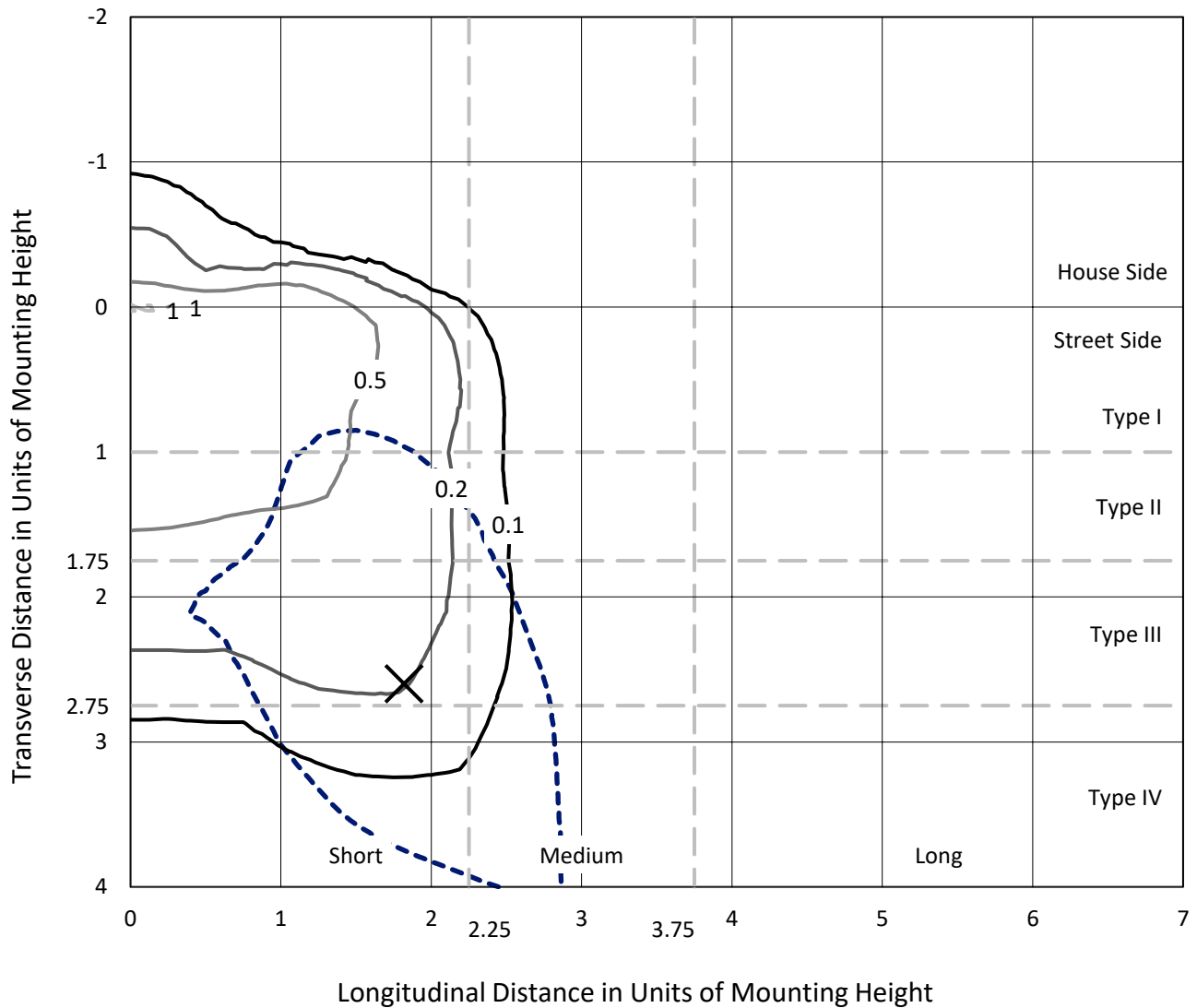
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

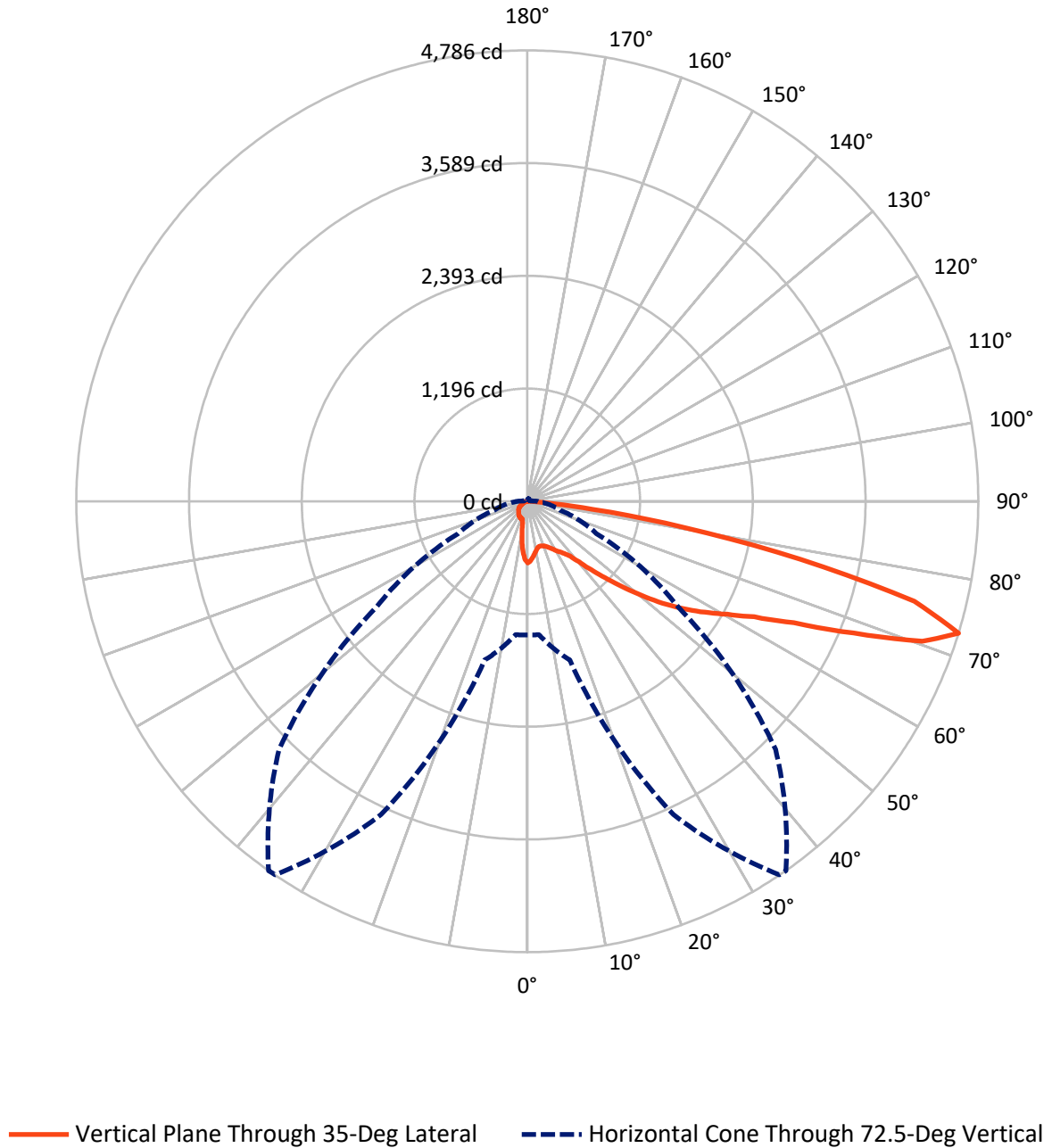
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	507.8	0.0	507.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4004.2	0.0	4004.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	4512.0	0.0	4512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.2
10°-20°	125.7	2.8
20°-30°	204.2	4.5
30°-40°	340.7	7.6
40°-50°	644.7	14.3
50°-60°	1024.4	22.7
60°-70°	1267.2	28.1
70°-80°	787.7	17.5
80°-90°	63.7	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°	4512.0	100.0
0°-180°	4512.0	100.0

Coefficient of Utilization



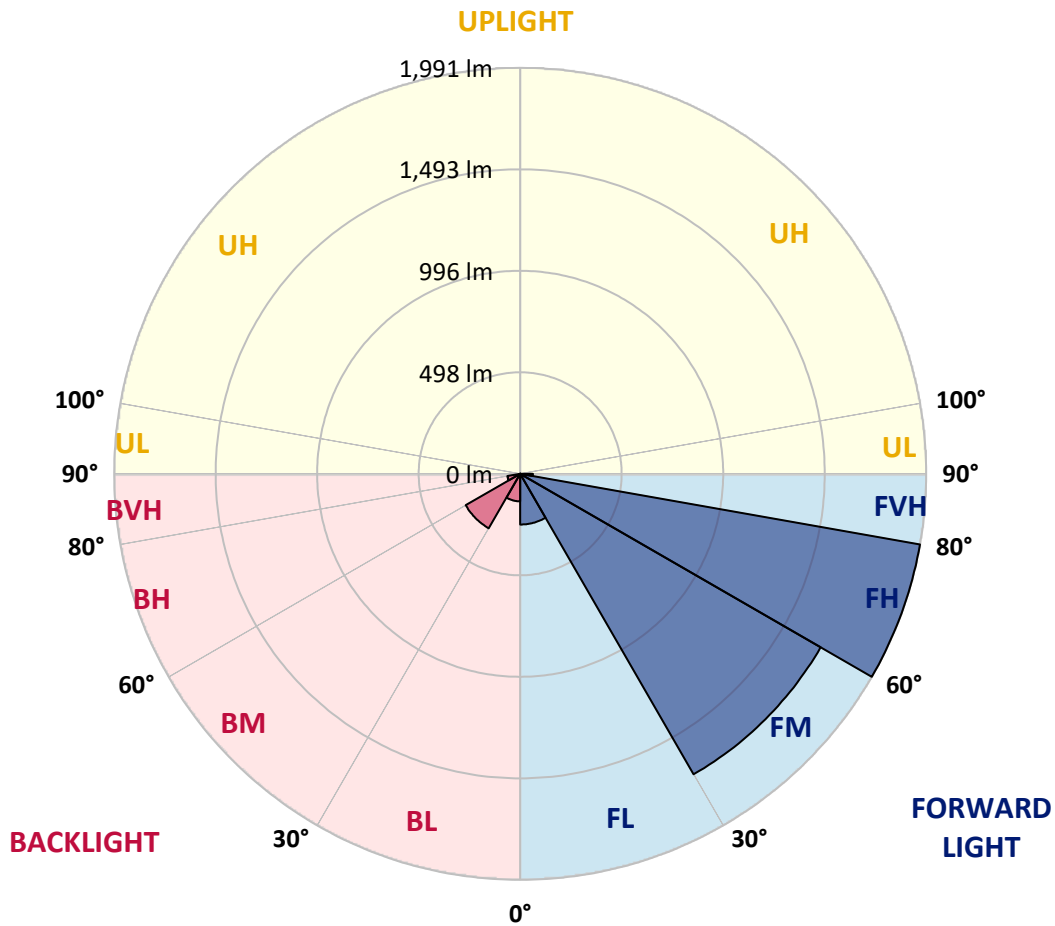
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.7	5.5			
FM (30°-60°)	1701.5	37.7			
FH (60°-80°)	1991.2	44.1			G2/5000
FVH (80°-90°)	62.8	1.4			G1/100
BL (0°-30°)	134.9	3.0	B1/500		
BM (30°-60°)	308.3	6.8	B1/1000		
BH (60°-80°)	63.7	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	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°	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9
2.5°	624.8	630.1	631.1	632.8	632.8	634.8	638.1	642.7	650.3	654.3
5°	575.9	579.9	584.8	588.8	596.4	597.4	610.3	622.9	640.4	653.6
7.5°	526.7	531.3	537.9	547.5	557.4	560.4	579.9	601.0	628.8	653.6
10°	491.9	492.3	498.2	507.8	523.7	527.3	551.1	581.2	615.9	649.6
12.5°	472.4	474.8	477.4	484.7	499.9	502.2	527.6	563.0	603.0	647.3
15°	472.4	474.1	475.7	479.4	491.6	493.6	516.1	551.5	596.4	648.3
17.5°	477.4	480.0	478.7	483.0	495.9	497.2	517.1	548.1	596.1	654.6
20°	489.3	491.3	488.6	491.3	504.2	506.8	527.3	554.4	601.7	665.5
22.5°	508.1	509.1	502.9	504.8	518.1	521.4	545.2	572.3	615.3	683.0
25°	531.9	533.9	524.3	526.7	539.2	543.2	570.6	599.1	636.7	707.2
27.5°	559.4	560.4	552.1	551.8	568.0	573.6	601.4	632.1	665.5	737.6
30°	590.8	593.8	585.8	584.5	605.0	609.6	637.1	672.8	707.8	783.2
32.5°	615.6	617.9	613.3	616.6	637.4	641.0	680.4	730.3	774.3	848.0
35°	651.3	652.6	642.0	648.0	671.8	681.0	739.6	811.0	857.9	929.3
37.5°	780.6	780.6	735.6	706.2	729.0	737.3	820.6	912.5	961.1	1038.4
40°	959.4	956.4	890.7	830.5	827.5	843.7	935.9	1040.4	1094.3	1169.4
42.5°	1150.2	1145.6	1056.0	996.4	986.5	992.2	1069.2	1198.1	1253.0	1329.0
45°	1319.5	1318.1	1236.1	1156.1	1138.3	1156.1	1235.5	1382.6	1421.9	1501.9
47.5°	1461.3	1461.3	1401.4	1349.2	1339.9	1350.5	1460.6	1587.2	1583.6	1686.1
50°	1624.6	1623.3	1566.4	1543.9	1553.5	1568.4	1719.8	1802.8	1750.9	1866.9
52.5°	1739.0	1746.9	1727.4	1723.8	1772.7	1798.5	1983.0	2013.7	1900.7	2038.5
55°	1829.6	1838.8	1861.3	1886.8	1981.0	2014.7	2237.9	2213.7	2026.0	2187.3
57.5°	1957.9	1944.6	1979.3	2029.6	2182.0	2222.7	2484.8	2402.5	2126.8	2308.0
60°	2113.6	2115.6	2121.5	2185.0	2382.7	2434.9	2728.2	2581.0	2191.6	2382.0
62.5°	2300.7	2303.7	2315.9	2413.4	2652.1	2701.4	2987.4	2727.2	2221.3	2361.2
65°	2287.8	2300.4	2436.9	2770.5	3061.7	3110.3	3289.9	2829.7	2176.4	2170.8
67.5°	2084.1	2104.6	2333.1	3197.0	3679.3	3733.5	3655.5	2849.8	1982.3	1688.1
70°	1817.0	1824.3	2099.0	3580.5	4394.4	4449.3	3982.8	2628.0	1504.3	941.6
72.5°	1419.0	1420.6	1743.0	3669.4	4782.6	4785.5	3725.9	1950.9	809.0	361.7
75°	1013.6	1003.7	1167.4	2975.8	4207.6	4241.4	2793.3	915.1	309.1	170.9
77.5°	543.5	554.4	660.6	1764.8	2906.7	2964.2	1524.1	263.8	157.4	116.4
80°	167.9	177.2	270.8	808.0	1646.4	1681.1	565.0	117.4	109.8	83.0
82.5°	52.9	54.9	126.3	339.5	683.4	699.2	163.7	66.5	75.0	54.9
85°	15.2	15.5	56.2	126.6	168.9	172.2	46.0	25.8	43.0	34.1
87.5°	1.7	5.3	21.2	21.2	14.9	14.5	5.0	5.6	12.2	4.3
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°
653.9	0°	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9
656.9	2.5°	655.3	655.6	651.3	644.0	636.1	629.5	621.2	614.6	610.0	608.6
662.9	5°	659.9	657.6	645.3	623.2	596.7	573.9	548.5	528.3	515.1	509.5
669.1	7.5°	666.8	660.2	633.4	589.8	539.2	494.3	448.6	413.3	390.8	379.5
675.1	10°	672.8	659.6	613.6	541.5	464.2	396.1	334.6	291.9	268.1	256.9
682.0	12.5°	678.4	659.2	587.8	484.3	379.5	296.2	239.0	217.9	211.3	208.9
693.3	15°	689.0	660.2	555.4	418.9	295.2	223.8	203.0	202.7	204.0	203.3
710.5	17.5°	703.5	661.2	518.7	349.5	227.8	197.4	196.4	199.4	201.3	200.3
732.0	20°	722.4	665.2	479.7	280.7	195.7	190.8	193.1	195.7	197.4	195.7
760.7	22.5°	748.8	672.1	437.1	225.5	185.5	186.8	188.8	191.8	193.4	191.1
797.4	25°	781.2	683.0	395.1	196.0	180.5	182.2	185.1	188.4	190.4	188.1
843.7	27.5°	823.2	700.6	356.4	189.4	175.6	176.5	180.8	185.8	188.4	185.5
909.5	30°	884.0	729.3	323.0	192.4	172.6	170.3	176.2	183.2	186.1	183.5
999.1	32.5°	964.7	770.0	302.5	197.0	171.3	163.0	168.6	177.5	182.5	180.8
1116.1	35°	1070.5	831.8	294.6	202.3	170.3	155.4	159.4	168.9	177.5	179.2
1263.6	37.5°	1198.8	917.8	296.9	204.6	167.3	149.1	151.1	159.4	170.6	175.9
1429.5	40°	1344.6	1017.9	310.1	202.3	164.0	143.8	144.1	150.4	160.3	168.3
1608.1	42.5°	1495.0	1135.0	334.6	193.7	161.0	139.2	138.2	142.5	149.1	154.7
1786.3	45°	1638.2	1255.3	358.7	181.8	157.4	134.6	132.2	133.9	135.2	137.5
1959.8	47.5°	1763.1	1339.9	351.8	170.9	152.4	129.3	125.3	124.6	120.7	120.3
2114.9	50°	1849.4	1358.5	312.4	160.0	145.1	123.3	117.0	113.1	106.1	102.8
2230.9	52.5°	1876.9	1285.4	255.2	149.1	133.2	115.4	106.5	100.2	91.6	88.6
2297.7	55°	1840.5	1142.2	204.0	135.9	116.7	104.8	94.9	86.6	79.7	76.0
2305.0	57.5°	1751.6	960.1	161.3	120.3	99.2	92.9	83.0	74.7	68.8	65.1
2224.3	60°	1604.1	762.4	127.6	101.8	84.6	80.0	69.8	64.5	59.2	54.9
2016.0	62.5°	1380.3	544.2	100.2	80.7	70.7	65.5	59.5	55.5	49.3	43.3
1641.5	65°	1077.1	332.9	77.4	59.2	56.9	54.2	50.6	46.9	39.3	33.4
1070.8	67.5°	679.4	157.7	55.2	44.6	45.0	43.6	42.0	39.0	33.4	28.1
479.7	70°	299.2	76.4	36.4	34.1	33.4	33.4	34.7	33.7	28.4	23.5
166.6	72.5°	101.8	41.0	27.1	25.8	24.1	23.8	29.1	28.1	22.8	18.2
83.0	75°	53.2	27.4	19.8	18.5	14.5	17.5	23.1	21.8	16.2	11.9
54.9	77.5°	34.7	19.5	13.6	11.9	8.3	11.6	17.2	15.2	9.6	6.0
36.0	80°	21.8	12.9	7.9	5.6	4.0	6.3	9.3	6.6	3.6	1.3
21.2	82.5°	11.6	6.6	3.0	2.0	1.7	2.0	2.3	1.7	0.7	0.0
10.9	85°	4.6	2.3	1.0	0.7	0.3	0.0	0.7	0.3	0.0	0.0
2.0	87.5°	1.7	0.3	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>
653.9
611.0
511.4
381.2
257.2
208.3
203.0
200.0
195.4
190.8
187.8
185.5
183.2
180.8
179.2
177.2
170.9
157.0
138.9
120.0
103.1
88.3
76.0
64.5
53.9
42.3
32.4
27.4
22.5
17.2
10.9
5.3
1.0
0.0
0.0
0.0
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