

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: P939388

Luminaire Tested: **GALN-SB1D-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939388
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-SB1D-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA 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: 5362 lumens
Efficiency: N/A
Efficacy: 67.4 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

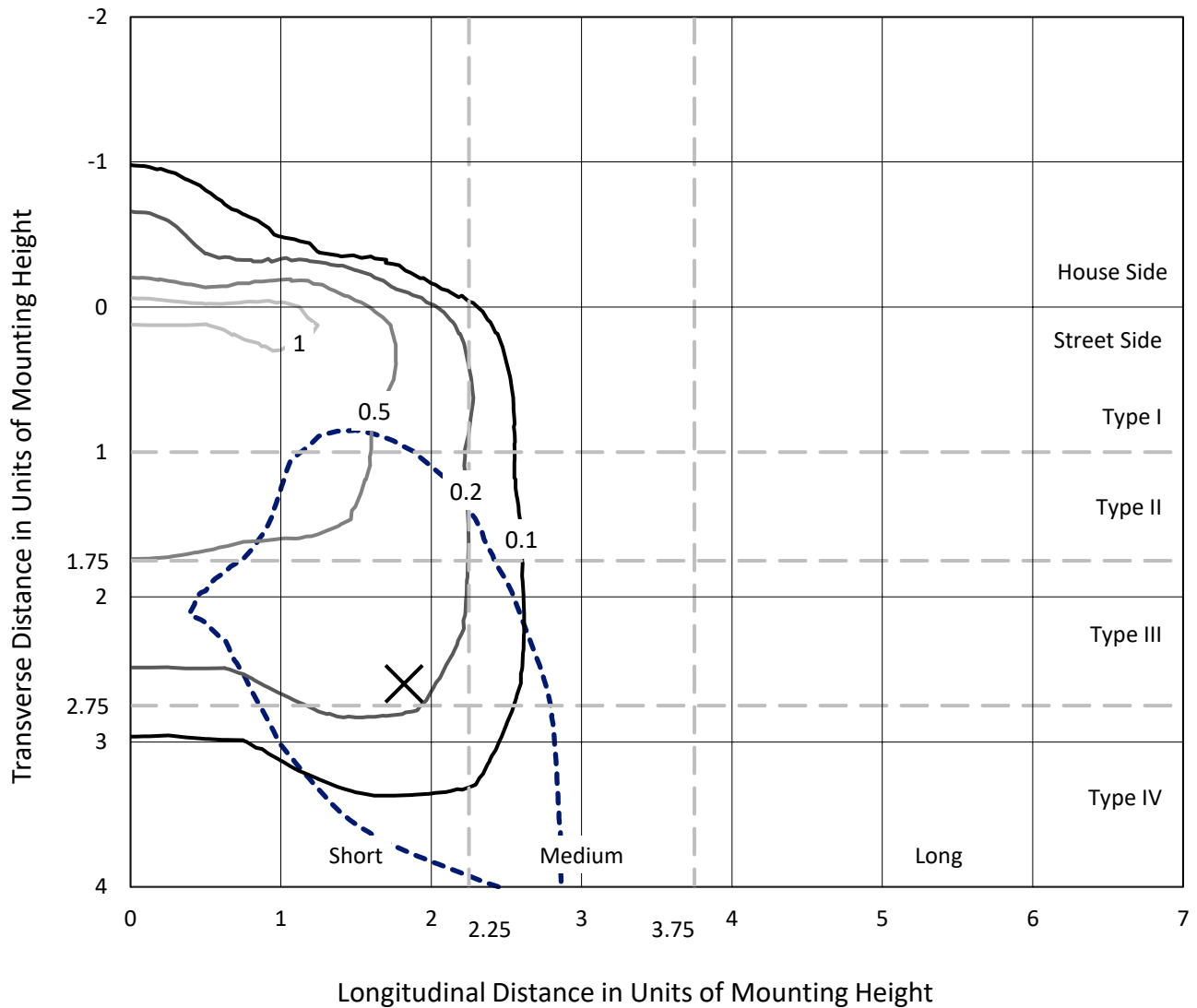
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

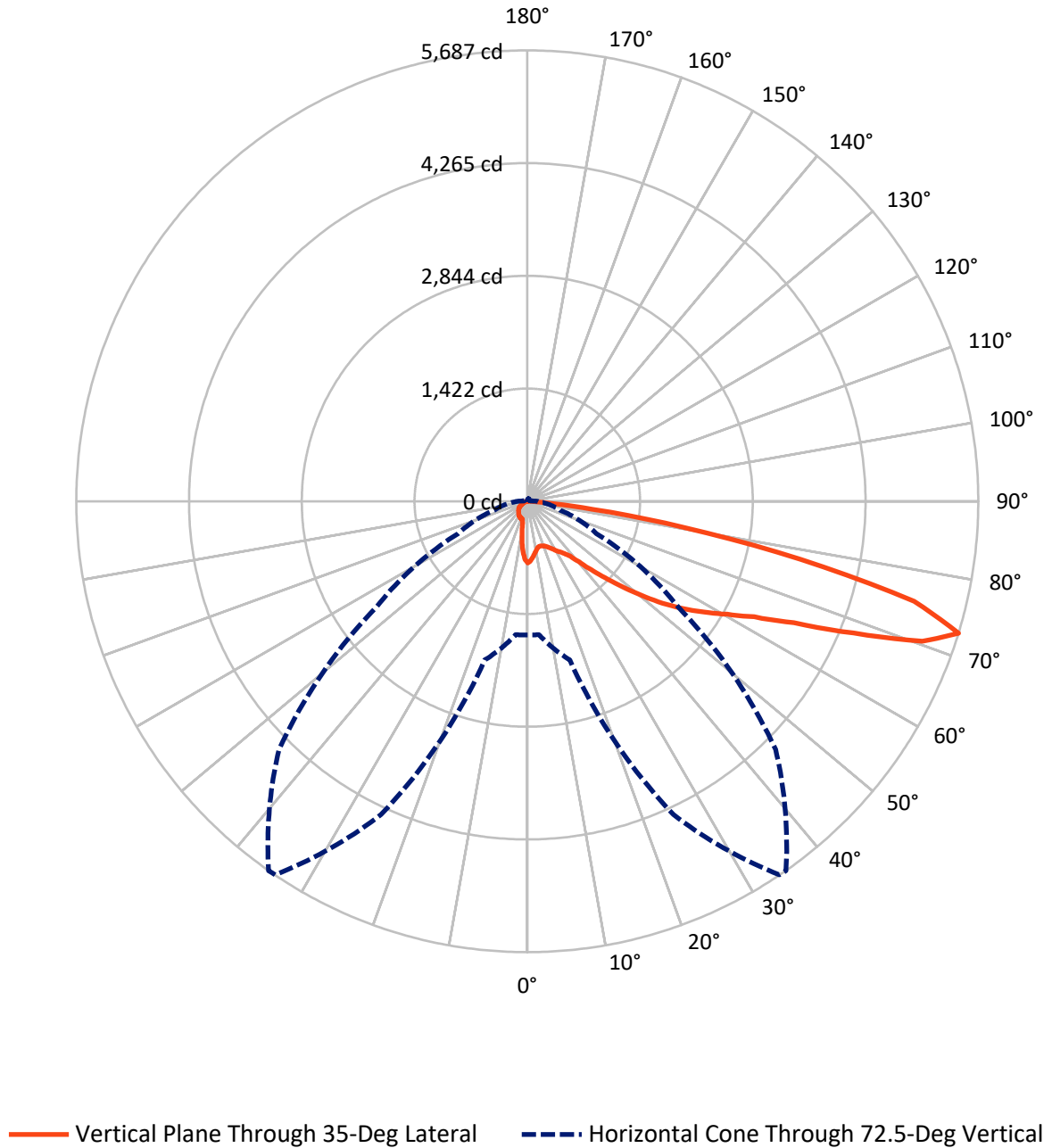
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	603.5	0.0	603.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4758.5	0.0	4758.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	5362.0	0.0	5362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.2
10°-20°	149.4	2.8
20°-30°	242.7	4.5
30°-40°	404.9	7.6
40°-50°	766.1	14.3
50°-60°	1217.3	22.7
60°-70°	1505.9	28.1
70°-80°	936.1	17.5
80°-90°	75.7	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°	5362.0	100.0
0°-180°	5362.0	100.0

Coefficient of Utilization



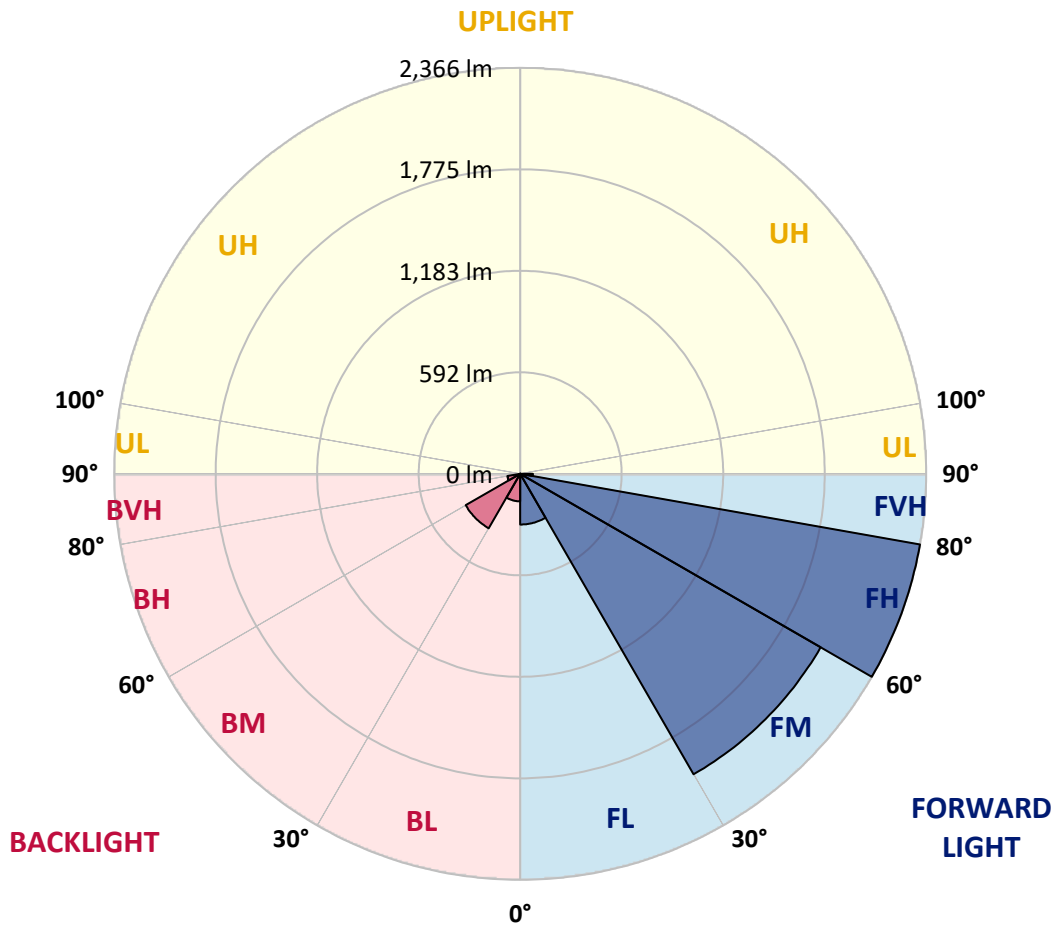
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.6	5.5			
FM (30°-60°)	2022.0	37.7			
FH (60°-80°)	2366.3	44.1			G2/5000
FVH (80°-90°)	74.6	1.4			G1/100
BL (0°-30°)	160.4	3.0	B1/500		
BM (30°-60°)	366.4	6.8	B1/1000		
BH (60°-80°)	75.7	1.4	B0/110		G0/110
BVH (80°-90°)	1.0	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°	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1
2.5°	742.6	748.8	750.0	752.0	752.0	754.3	758.3	763.8	772.8	777.5
5°	684.4	689.1	695.0	699.7	708.8	709.9	725.3	740.2	761.0	776.7
7.5°	625.9	631.4	639.2	650.6	662.4	665.9	689.1	714.3	747.3	776.7
10°	584.6	585.0	592.1	603.5	622.3	626.7	654.9	690.7	732.0	772.0
12.5°	561.4	564.2	567.3	576.0	594.0	596.8	627.1	669.1	716.6	769.3
15°	561.4	563.4	565.4	569.7	584.2	586.6	613.3	655.3	708.8	770.5
17.5°	567.3	570.5	568.9	574.0	589.3	590.9	614.5	651.4	708.4	777.9
20°	581.5	583.8	580.7	583.8	599.2	602.3	626.7	658.9	715.1	790.9
22.5°	603.9	605.0	597.6	599.9	615.7	619.6	647.9	680.1	731.2	811.7
25°	632.2	634.5	623.1	625.9	640.8	645.5	678.1	711.9	756.7	840.4
27.5°	664.8	665.9	656.1	655.7	675.0	681.7	714.7	751.2	790.9	876.5
30°	702.1	705.6	696.2	694.6	719.0	724.5	757.1	799.5	841.2	930.8
32.5°	731.6	734.3	728.8	732.7	757.5	761.8	808.6	867.9	920.1	1007.8
35°	774.0	775.6	763.0	770.1	798.3	809.4	878.9	963.8	1019.5	1104.4
37.5°	927.6	927.6	874.2	839.2	866.3	876.1	975.1	1084.4	1142.1	1234.1
40°	1140.2	1136.6	1058.4	986.9	983.4	1002.7	1112.3	1236.4	1300.5	1389.6
42.5°	1366.9	1361.4	1254.9	1184.2	1172.4	1179.1	1270.6	1423.8	1489.0	1579.4
45°	1568.0	1566.4	1469.0	1373.9	1352.7	1373.9	1468.2	1643.1	1689.8	1784.9
47.5°	1736.6	1736.6	1665.5	1603.4	1592.4	1604.9	1735.8	1886.3	1881.9	2003.7
50°	1930.7	1929.1	1861.5	1834.8	1846.2	1863.9	2043.8	2142.4	2080.7	2218.6
52.5°	2066.6	2076.0	2052.8	2048.5	2106.7	2137.3	2356.5	2393.1	2258.7	2422.6
55°	2174.2	2185.2	2212.0	2242.2	2354.2	2394.3	2659.5	2630.8	2407.6	2599.4
57.5°	2326.7	2311.0	2352.2	2411.9	2593.1	2641.4	2953.0	2855.1	2527.5	2742.8
60°	2511.7	2514.1	2521.2	2596.6	2831.5	2893.6	3242.1	3067.3	2604.5	2830.8
62.5°	2734.1	2737.6	2752.2	2868.1	3151.8	3210.3	3550.1	3240.9	2639.8	2806.0
65°	2718.8	2733.7	2896.0	3292.4	3638.5	3696.3	3909.6	3362.7	2586.4	2579.7
67.5°	2476.8	2501.1	2772.6	3799.2	4372.5	4436.9	4344.2	3386.7	2355.8	2006.1
70°	2159.3	2168.0	2494.4	4255.0	5222.3	5287.5	4733.1	3123.1	1787.6	1118.9
72.5°	1686.3	1688.2	2071.3	4360.7	5683.5	5687.1	4427.9	2318.4	961.4	429.8
75°	1204.6	1192.8	1387.3	3536.4	5000.3	5040.4	3319.5	1087.5	367.4	203.1
77.5°	645.9	658.9	785.0	2097.2	3454.3	3522.6	1811.2	313.5	187.0	138.3
80°	199.6	210.6	321.8	960.2	1956.6	1997.8	671.4	139.5	130.4	98.6
82.5°	62.9	65.2	150.1	403.5	812.1	831.0	194.5	79.0	89.2	65.2
85°	18.1	18.5	66.8	150.5	200.8	204.7	54.6	30.6	51.1	40.5
87.5°	2.0	6.3	25.1	25.1	17.7	17.3	5.9	6.7	14.5	5.1
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°
777.1	0°	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1
780.7	2.5°	778.7	779.1	774.0	765.3	755.9	748.1	738.2	730.4	724.9	723.3
787.7	5°	784.2	781.5	766.9	740.6	709.2	682.1	651.8	627.8	612.1	605.4
795.2	7.5°	792.5	784.6	752.8	700.9	640.8	587.4	533.1	491.1	464.4	451.0
802.3	10°	799.5	783.8	729.2	643.6	551.6	470.7	397.6	346.9	318.6	305.3
810.5	12.5°	806.2	783.4	698.6	575.6	451.0	352.0	284.1	258.9	251.1	248.3
823.9	15°	818.8	784.6	660.1	497.8	350.8	266.0	241.2	240.8	242.4	241.6
844.3	17.5°	836.1	785.8	616.4	415.3	270.7	234.6	233.4	236.9	239.3	238.1
869.9	20°	858.5	790.5	570.1	333.6	232.6	226.7	229.4	232.6	234.6	232.6
904.0	22.5°	889.9	798.7	519.4	267.9	220.4	222.0	224.3	227.9	229.8	227.1
947.6	25°	928.4	811.7	469.5	233.0	214.5	216.5	220.0	223.9	226.3	223.6
1002.7	27.5°	978.3	832.5	423.5	225.1	208.6	209.8	214.9	220.8	223.9	220.4
1080.8	30°	1050.6	866.7	383.9	228.7	205.1	202.3	209.4	217.7	221.2	218.1
1187.3	32.5°	1146.4	915.0	359.5	234.2	203.5	193.7	200.4	211.0	216.9	214.9
1326.4	35°	1272.2	988.5	350.1	240.4	202.3	184.7	189.4	200.8	211.0	212.9
1501.6	37.5°	1424.6	1090.7	352.8	243.2	198.8	177.2	179.6	189.4	202.7	209.0
1698.9	40°	1597.9	1209.7	368.5	240.4	194.9	170.9	171.3	178.8	190.6	200.0
1911.0	42.5°	1776.6	1348.8	397.6	230.2	191.3	165.4	164.2	169.3	177.2	183.9
2122.8	45°	1946.8	1491.8	426.3	216.1	187.0	159.9	157.2	159.1	160.7	163.4
2329.0	47.5°	2095.3	1592.4	418.0	203.1	181.1	153.6	148.9	148.1	143.4	143.0
2513.3	50°	2197.8	1614.4	371.3	190.2	172.5	146.5	139.1	134.4	126.1	122.2
2651.2	52.5°	2230.4	1527.6	303.3	177.2	158.3	137.1	126.5	119.0	108.8	105.3
2730.6	55°	2187.2	1357.4	242.4	161.5	138.7	124.5	112.8	102.9	94.7	90.4
2739.2	57.5°	2081.5	1140.9	191.7	143.0	117.9	110.4	98.6	88.8	81.7	77.4
2643.4	60°	1906.3	906.0	151.7	121.0	100.6	95.1	82.9	76.6	70.3	65.2
2395.8	62.5°	1640.3	646.7	119.0	95.9	84.1	77.8	70.7	66.0	58.5	51.5
1950.7	65°	1280.0	395.6	91.9	70.3	67.6	64.4	60.1	55.8	46.8	39.7
1272.6	67.5°	807.4	187.4	65.6	53.0	53.4	51.9	49.9	46.4	39.7	33.4
570.1	70°	355.6	90.8	43.2	40.5	39.7	39.7	41.3	40.1	33.8	27.9
198.0	72.5°	121.0	48.7	32.2	30.6	28.7	28.3	34.6	33.4	27.1	21.6
98.6	75°	63.3	32.6	23.6	22.0	17.3	20.8	27.5	25.9	19.3	14.1
65.2	77.5°	41.3	23.2	16.1	14.1	9.8	13.8	20.4	18.1	11.4	7.1
42.8	80°	25.9	15.3	9.4	6.7	4.7	7.5	11.0	7.9	4.3	1.6
25.1	82.5°	13.8	7.9	3.5	2.4	2.0	2.4	2.8	2.0	0.8	0.0
13.0	85°	5.5	2.8	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0
2.4	87.5°	2.0	0.4	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>
777.1
726.1
607.8
453.0
305.7
247.5
241.2
237.7
232.2
226.7
223.2
220.4
217.7
214.9
212.9
210.6
203.1
186.6
165.0
142.6
122.6
104.9
90.4
76.6
64.0
50.3
38.5
32.6
26.7
20.4
13.0
6.3
1.2
0.0
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0.0
0.0

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