

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: P938978

Luminaire Tested: **GALN-SB1B-835-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938978  
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-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

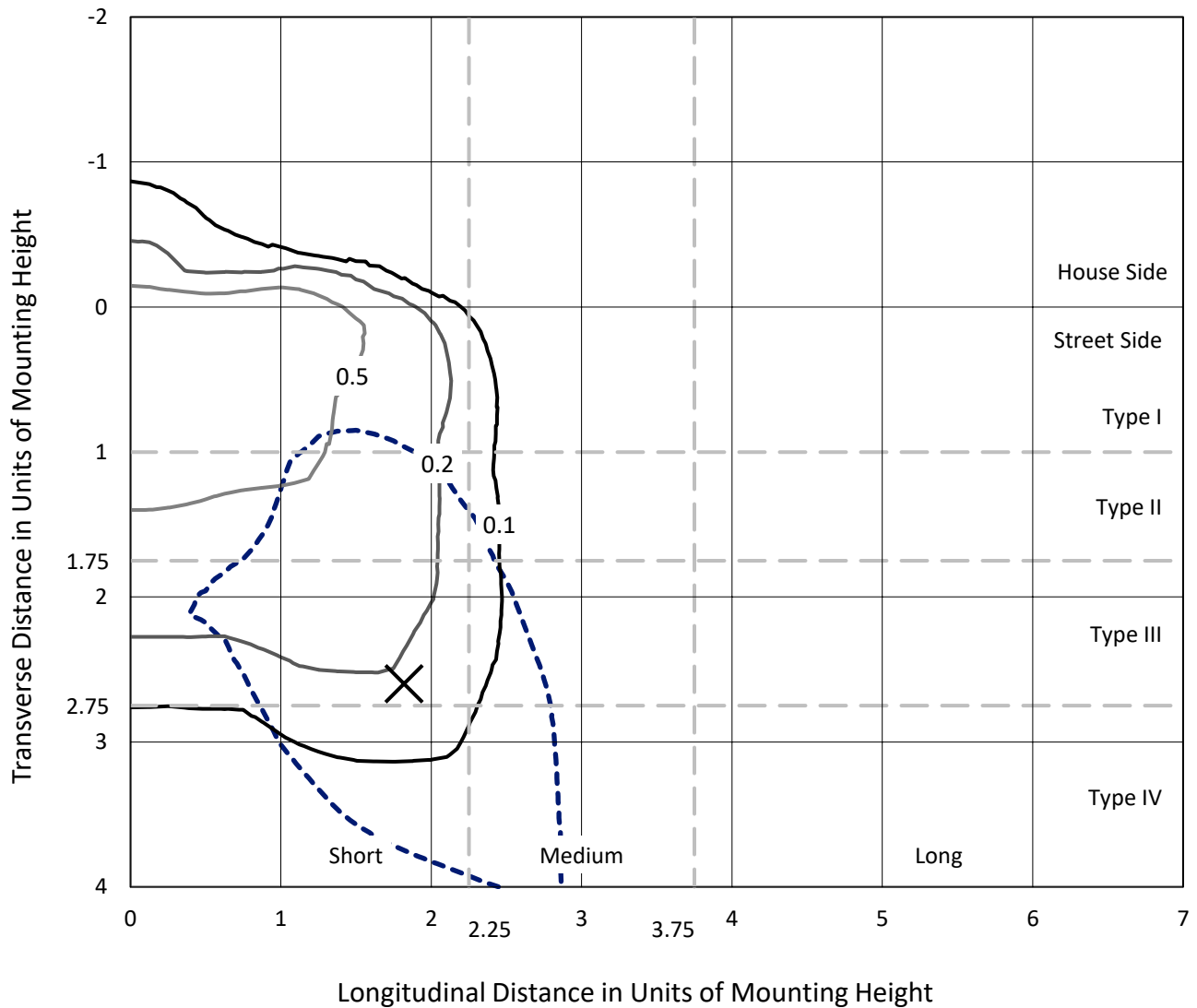
Lumens per Lamp: N/A  
Luminaire Lumens: 3956 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

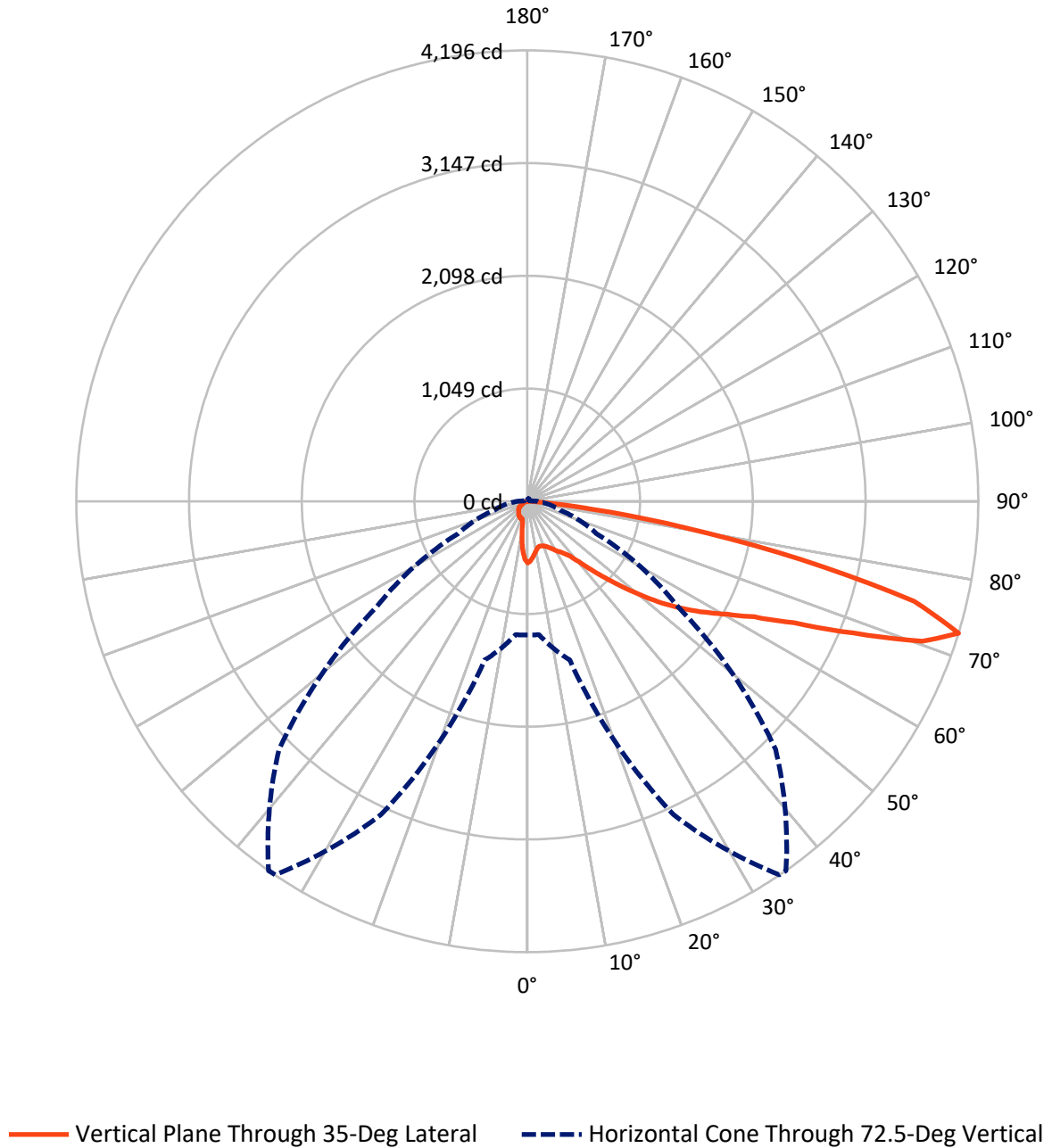
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	445.2	0.0	445.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	3510.8	0.0	3510.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	3956.0	0.0	3956.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.1	1.2
10°-20°	110.2	2.8
20°-30°	179.0	4.5
30°-40°	298.7	7.6
40°-50°	565.2	14.3
50°-60°	898.1	22.7
60°-70°	1111.1	28.1
70°-80°	690.6	17.5
80°-90°	55.8	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°	3956.0	100.0
0°-180°	3956.0	100.0

**Coefficient of Utilization**



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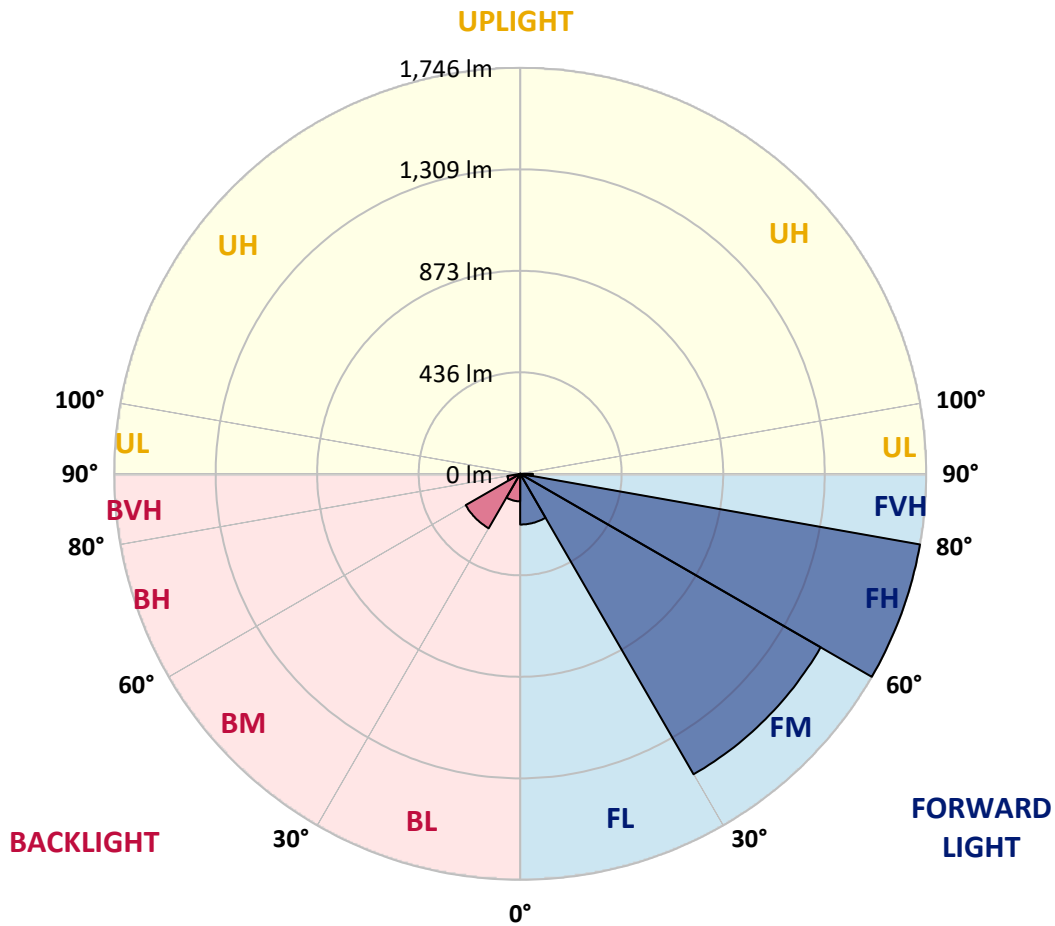
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.1	5.5			
FM (30°-60°)	1491.8	37.7			
FH (60°-80°)	1745.8	44.1			G1/1800
FVH (80°-90°)	55.1	1.4			G1/100
BL (0°-30°)	118.3	3.0	B1/500		
BM (30°-60°)	270.3	6.8	B1/1000		
BH (60°-80°)	55.9	1.4	B0/110		G0/110
BVH (80°-90°)	0.8	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-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4
2.5°	547.8	552.5	553.4	554.8	554.8	556.5	559.4	563.5	570.2	573.6
5°	504.9	508.4	512.8	516.3	522.9	523.8	535.1	546.1	561.5	573.1
7.5°	461.8	465.8	471.6	480.0	488.7	491.3	508.4	527.0	551.3	573.1
10°	431.3	431.6	436.8	445.2	459.1	462.3	483.2	509.6	540.0	569.6
12.5°	414.2	416.2	418.6	424.9	438.3	440.3	462.6	493.6	528.7	567.6
15°	414.2	415.7	417.1	420.3	431.0	432.8	452.5	483.5	522.9	568.4
17.5°	418.6	420.9	419.7	423.5	434.8	436.0	453.4	480.6	522.6	573.9
20°	429.0	430.7	428.4	430.7	442.0	444.4	462.3	486.1	527.6	583.5
22.5°	445.5	446.4	440.9	442.6	454.2	457.1	478.0	501.8	539.4	598.9
25°	466.4	468.1	459.7	461.8	472.8	476.3	500.3	525.2	558.3	620.0
27.5°	490.5	491.3	484.1	483.8	498.0	502.9	527.3	554.2	583.5	646.7
30°	518.0	520.6	513.6	512.5	530.5	534.5	558.6	589.9	620.6	686.7
32.5°	539.7	541.8	537.7	540.6	558.9	562.1	596.5	640.3	678.9	743.5
35°	571.0	572.2	562.9	568.1	589.0	597.1	648.4	711.0	752.2	814.8
37.5°	684.4	684.4	645.0	619.2	639.2	646.4	719.5	800.0	842.6	910.5
40°	841.2	838.6	780.9	728.1	725.5	739.7	820.6	912.2	959.5	1025.3
42.5°	1008.4	1004.4	925.8	873.7	865.0	869.9	937.4	1050.5	1098.6	1165.3
45°	1156.9	1155.7	1083.8	1013.7	998.0	1013.7	1083.2	1212.2	1246.7	1316.9
47.5°	1281.2	1281.2	1228.7	1182.9	1174.8	1184.1	1280.6	1391.7	1388.5	1478.3
50°	1424.4	1423.2	1373.4	1353.7	1362.1	1375.1	1507.9	1580.6	1535.1	1636.9
52.5°	1524.7	1531.7	1514.6	1511.4	1554.3	1576.9	1738.6	1765.6	1666.4	1787.3
55°	1604.1	1612.2	1632.0	1654.3	1736.9	1766.4	1962.1	1940.9	1776.3	1917.8
57.5°	1716.6	1705.0	1735.4	1779.5	1913.1	1948.8	2178.6	2106.5	1864.7	2023.6
60°	1853.1	1854.9	1860.1	1915.7	2089.1	2134.9	2392.0	2263.0	1921.5	2088.5
62.5°	2017.2	2019.8	2030.5	2116.0	2325.3	2368.5	2619.2	2391.1	1947.6	2070.2
65°	2005.9	2016.9	2136.6	2429.1	2684.5	2727.1	2884.5	2481.0	1908.2	1903.3
67.5°	1827.3	1845.3	2045.6	2803.0	3225.9	3273.5	3205.1	2498.7	1738.0	1480.1
70°	1593.1	1599.5	1840.4	3139.3	3852.9	3901.0	3492.0	2304.2	1318.9	825.5
72.5°	1244.1	1245.6	1528.2	3217.2	4193.2	4195.8	3266.8	1710.5	709.3	317.1
75°	888.7	880.0	1023.5	2609.1	3689.1	3718.7	2449.1	802.4	271.0	149.9
77.5°	476.5	486.1	579.2	1547.3	2548.5	2598.9	1336.3	231.3	138.0	102.0
80°	147.3	155.4	237.4	708.4	1443.5	1474.0	495.4	102.9	96.2	72.8
82.5°	46.4	48.1	110.7	297.7	599.2	613.1	143.5	58.3	65.8	48.1
85°	13.3	13.6	49.3	111.0	148.1	151.0	40.3	22.6	37.7	29.9
87.5°	1.4	4.6	18.6	18.6	13.0	12.8	4.3	4.9	10.7	3.8
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°
573.4	0°	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4
576.0	2.5°	574.5	574.8	571.0	564.7	557.7	551.9	544.7	538.9	534.8	533.6
581.2	5°	578.6	576.5	565.8	546.4	523.2	503.2	480.9	463.2	451.6	446.7
586.7	7.5°	584.7	578.9	555.4	517.1	472.8	433.4	393.3	362.3	342.6	332.8
591.9	10°	589.9	578.3	538.0	474.8	407.0	347.3	293.3	256.0	235.1	225.2
598.0	12.5°	594.8	578.0	515.4	424.7	332.8	259.7	209.6	191.0	185.2	183.2
607.9	15°	604.1	578.9	487.0	367.3	258.9	196.2	178.0	177.7	178.8	178.3
622.9	17.5°	616.8	579.7	454.8	306.4	199.7	173.1	172.2	174.8	176.5	175.7
641.8	20°	633.4	583.2	420.6	246.1	171.6	167.3	169.3	171.6	173.1	171.6
667.0	22.5°	656.5	589.3	383.2	197.7	162.6	163.8	165.5	168.1	169.6	167.5
699.2	25°	685.0	598.9	346.4	171.9	158.3	159.7	162.3	165.2	167.0	164.9
739.7	27.5°	721.8	614.2	312.5	166.1	153.9	154.8	158.6	162.9	165.2	162.6
797.4	30°	775.1	639.4	283.2	168.7	151.3	149.3	154.5	160.6	163.2	160.9
876.0	32.5°	845.8	675.1	265.2	172.8	150.2	142.9	147.8	155.7	160.0	158.6
978.6	35°	938.6	729.3	258.3	177.4	149.3	136.2	139.7	148.1	155.7	157.1
1107.9	37.5°	1051.1	804.7	260.3	179.4	146.7	130.7	132.5	139.7	149.6	154.2
1253.4	40°	1178.9	892.5	271.9	177.4	143.8	126.1	126.4	131.9	140.6	147.5
1409.9	42.5°	1310.8	995.1	293.3	169.9	141.2	122.0	121.2	124.9	130.7	135.7
1566.2	45°	1436.3	1100.6	314.5	159.4	138.0	118.0	115.9	117.4	118.6	120.6
1718.3	47.5°	1545.9	1174.8	308.4	149.9	133.6	113.3	109.9	109.3	105.8	105.5
1854.3	50°	1621.5	1191.1	273.9	140.3	127.3	108.1	102.6	99.1	93.0	90.1
1956.0	52.5°	1645.6	1127.0	223.8	130.7	116.8	101.2	93.3	87.8	80.3	77.7
2014.6	55°	1613.7	1001.5	178.8	119.1	102.3	91.9	83.2	75.9	69.9	66.7
2021.0	57.5°	1535.7	841.8	141.5	105.5	87.0	81.5	72.8	65.5	60.3	57.1
1950.2	60°	1406.4	668.4	111.9	89.3	74.2	70.1	61.2	56.5	51.9	48.1
1767.6	62.5°	1210.2	477.1	87.8	70.7	62.0	57.4	52.2	48.7	43.2	38.0
1439.2	65°	944.4	291.9	67.8	51.9	49.9	47.5	44.3	41.2	34.5	29.3
938.9	67.5°	595.7	138.3	48.4	39.1	39.4	38.3	36.8	34.2	29.3	24.6
420.6	70°	262.3	67.0	31.9	29.9	29.3	29.3	30.4	29.6	24.9	20.6
146.1	72.5°	89.3	35.9	23.8	22.6	21.2	20.9	25.5	24.6	20.0	15.9
72.8	75°	46.7	24.1	17.4	16.2	12.8	15.4	20.3	19.1	14.2	10.4
48.1	77.5°	30.4	17.1	11.9	10.4	7.2	10.1	15.1	13.3	8.4	5.2
31.6	80°	19.1	11.3	7.0	4.9	3.5	5.5	8.1	5.8	3.2	1.2
18.6	82.5°	10.1	5.8	2.6	1.7	1.4	1.7	2.0	1.4	0.6	0.0
9.6	85°	4.1	2.0	0.9	0.6	0.3	0.0	0.6	0.3	0.0	0.0
1.7	87.5°	1.4	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>
573.4
535.7
448.4
334.2
225.5
182.6
178.0
175.4
171.3
167.3
164.6
162.6
160.6
158.6
157.1
155.4
149.9
137.7
121.7
105.2
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77.4
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