

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: P945017

Luminaire Tested: **GALN-SB1A-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3106 lumens
Efficiency: N/A
Efficacy: 100.5 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

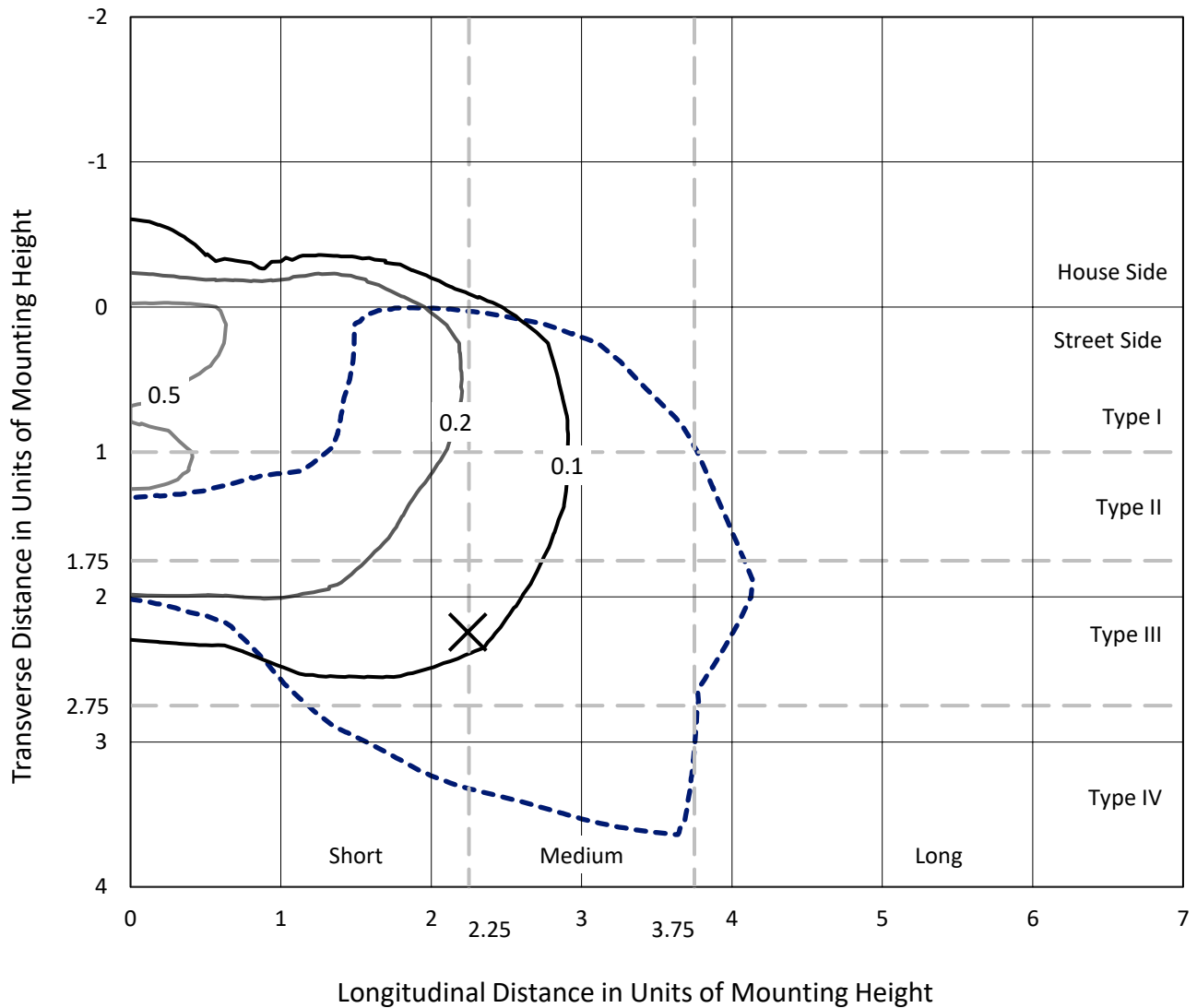
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

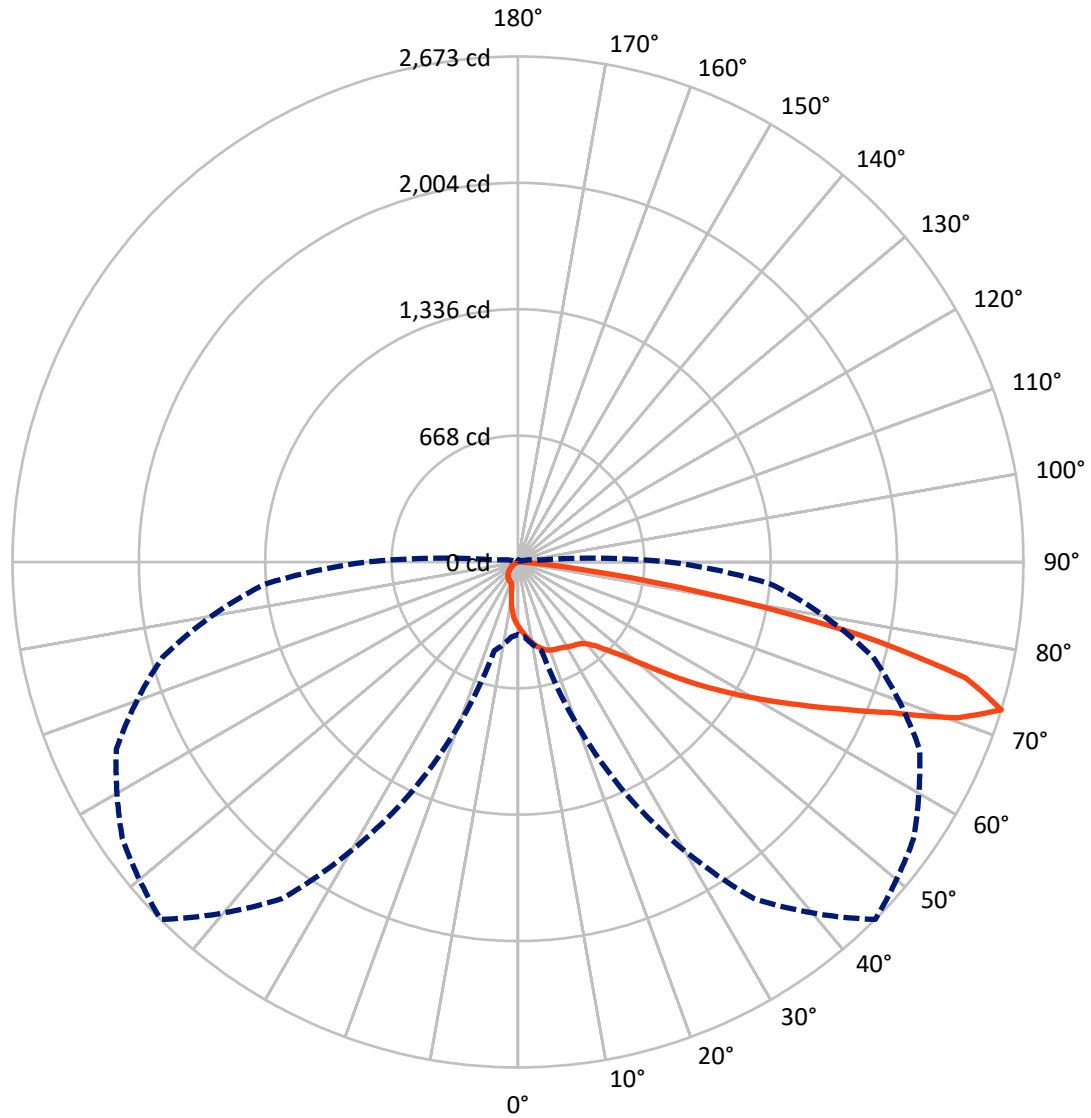
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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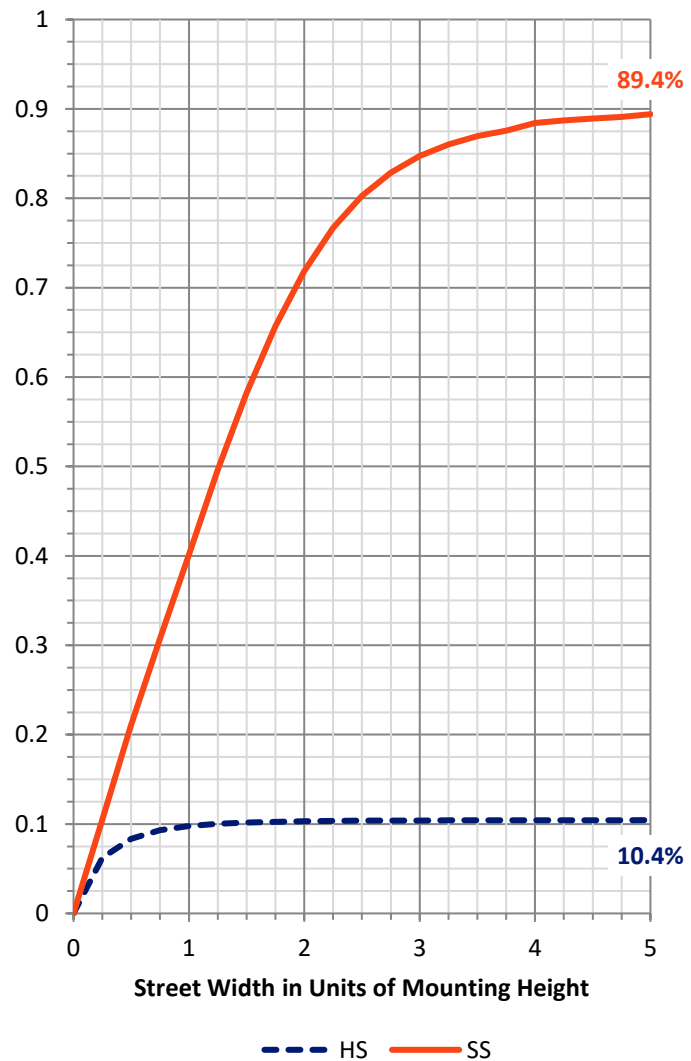
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	326.4	0.0	326.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2779.6	0.0	2779.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	3106.0	0.0	3106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	1.0
10°-20°	93.7	3.0
20°-30°	153.9	5.0
30°-40°	218.2	7.0
40°-50°	360.7	11.6
50°-60°	648.0	20.9
60°-70°	899.7	29.0
70°-80°	652.6	21.0
80°-90°	47.2	1.5
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°	3106.0	100.0
0°-180°	3106.0	100.0

Coefficient of Utilization



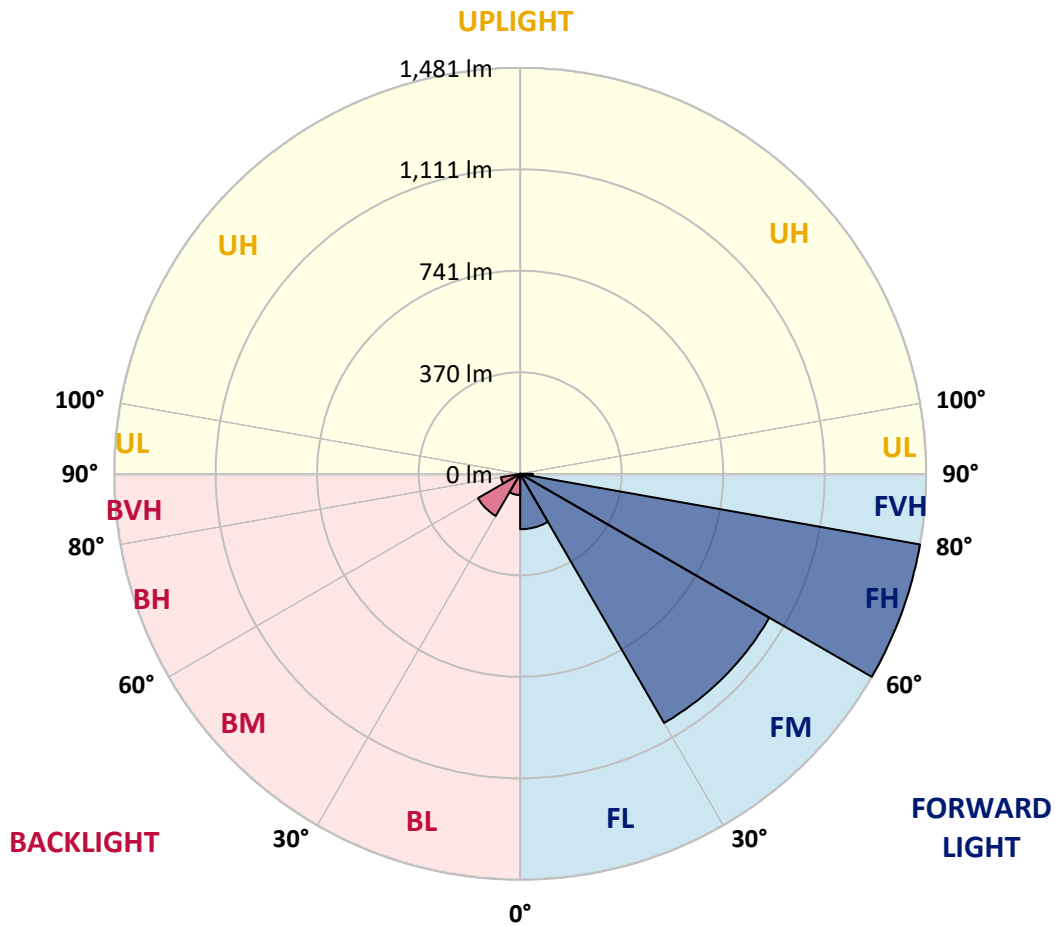
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.3	6.5			
FM (30°-60°)	1049.4	33.8			
FH (60°-80°)	1481.2	47.7			G1/1800
FVH (80°-90°)	46.8	1.5			G1/100
BL (0°-30°)	77.3	2.5	B0/110		
BM (30°-60°)	177.5	5.7	B0/220		
BH (60°-80°)	71.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3
2.5°	371.6	372.3	371.9	369.3	365.1	362.7	361.5	357.2	354.5	349.6
5°	405.8	408.3	406.8	401.8	393.7	388.0	386.3	377.6	369.7	360.6
7.5°	442.0	443.3	440.5	434.0	423.2	413.4	411.9	399.8	387.3	373.3
10°	473.4	474.9	470.7	461.1	448.8	436.7	434.6	421.3	406.4	389.2
12.5°	499.7	501.2	495.7	484.2	470.7	458.1	456.0	442.0	425.7	406.6
15°	519.6	522.4	515.0	502.7	488.0	475.5	474.5	460.7	444.8	423.6
17.5°	531.3	534.0	527.0	512.2	499.7	489.1	487.8	476.4	461.5	441.2
20°	533.2	535.7	528.3	515.4	505.0	496.5	495.9	487.6	476.8	457.3
22.5°	527.5	530.6	523.9	513.5	506.3	501.8	501.0	496.3	490.2	473.6
25°	521.5	524.1	519.0	509.9	506.1	505.6	506.3	505.4	504.1	490.2
27.5°	521.1	523.9	518.1	509.4	507.3	511.8	512.4	516.4	517.5	505.2
30°	524.7	526.6	521.1	512.0	510.9	521.1	521.3	528.5	530.2	517.9
32.5°	532.6	534.7	529.2	515.8	514.3	528.5	529.2	538.7	541.5	531.5
35°	551.0	553.5	547.2	526.4	521.1	535.5	537.4	548.7	554.2	545.9
37.5°	597.0	589.6	580.9	547.8	536.6	546.6	549.7	562.9	572.6	563.1
40°	711.3	688.0	660.8	584.3	563.7	570.1	572.6	585.8	599.1	589.8
42.5°	882.8	855.2	811.6	668.2	604.6	607.8	609.7	621.2	640.0	632.6
45°	1035.6	1025.7	981.2	811.6	681.2	665.5	667.8	673.8	701.5	698.8
47.5°	1153.1	1147.4	1113.0	976.1	810.5	736.1	742.7	745.4	785.5	795.2
50°	1243.4	1241.3	1210.6	1122.4	979.5	840.2	842.5	836.6	896.6	920.7
52.5°	1328.6	1335.8	1313.2	1258.3	1159.9	976.5	976.1	948.1	1029.1	1065.5
55°	1405.6	1408.1	1410.5	1396.9	1341.4	1131.7	1127.7	1081.9	1182.8	1220.5
57.5°	1477.9	1479.0	1499.7	1527.5	1530.3	1298.3	1290.9	1236.0	1350.7	1377.6
60°	1526.4	1531.3	1575.2	1652.4	1686.1	1470.3	1466.2	1410.3	1521.6	1534.1
62.5°	1456.5	1486.2	1596.8	1749.9	1833.2	1660.9	1658.9	1606.4	1701.3	1691.2
65°	1179.0	1229.2	1423.8	1815.8	1977.6	1873.7	1876.5	1820.5	1886.0	1852.9
67.5°	824.7	877.7	1107.9	1821.1	2138.9	2123.7	2139.6	2051.8	2082.1	2007.9
70°	570.3	597.6	747.5	1707.1	2264.6	2468.0	2467.5	2335.9	2277.2	2078.5
72.5°	383.5	397.7	485.5	1354.3	2172.2	2672.5	2660.2	2553.0	2342.9	1943.9
75°	161.8	172.1	224.7	761.1	1718.5	2445.1	2411.8	2256.2	2081.7	1530.7
77.5°	51.3	55.8	88.6	272.4	946.6	1837.9	1802.7	1409.0	1395.2	767.9
80°	24.4	28.4	49.8	109.4	372.5	999.6	994.7	639.2	600.2	207.3
82.5°	10.6	12.5	27.6	58.5	166.6	356.6	363.8	217.5	180.0	78.7
85°	3.4	4.5	12.7	26.9	70.4	88.6	87.6	51.7	72.5	42.8
87.5°	0.0	0.0	4.2	6.1	7.2	5.1	5.7	4.5	20.1	11.9
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°
340.3	0°	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3
344.5	2.5°	342.0	338.6	332.6	327.1	322.2	317.4	314.4	310.2	309.7	309.7
350.0	5°	344.3	338.8	328.2	316.9	304.0	291.7	279.4	267.6	263.7	261.0
358.9	7.5°	351.1	342.4	325.6	304.2	279.6	252.7	233.8	213.5	205.6	201.4
370.8	10°	360.8	349.0	323.5	286.0	246.1	209.5	182.5	160.5	152.0	148.4
383.7	12.5°	371.6	357.0	319.7	263.3	209.5	165.6	139.3	129.1	127.8	127.8
399.2	15°	384.6	366.8	313.1	236.6	171.1	131.0	121.7	122.1	123.4	124.2
414.3	17.5°	397.9	377.2	302.7	206.7	137.2	117.9	118.1	118.7	119.8	120.6
430.6	20°	412.4	387.5	289.0	174.9	117.7	114.1	114.7	115.3	116.2	116.6
445.8	22.5°	427.8	397.3	272.6	143.7	111.1	110.9	111.1	111.7	112.8	112.8
463.7	25°	444.4	408.1	254.0	121.1	107.7	107.7	108.1	108.5	109.4	109.4
480.8	27.5°	461.3	418.1	234.3	109.2	104.7	104.5	104.5	105.2	105.6	105.8
497.8	30°	480.0	429.7	214.5	106.6	102.4	101.3	100.7	101.1	101.6	101.8
515.6	32.5°	499.1	441.0	197.0	107.7	100.1	98.2	96.0	95.6	95.6	96.5
534.0	35°	520.3	453.3	183.4	111.3	98.8	93.5	90.1	88.2	88.4	89.7
556.1	37.5°	545.7	468.1	173.4	114.5	97.9	88.2	82.7	80.4	78.9	80.4
586.4	40°	579.0	489.9	166.2	117.0	96.9	82.0	74.6	70.8	68.1	68.9
633.5	42.5°	628.0	524.3	163.5	117.2	94.6	74.8	66.4	61.3	57.2	57.5
704.3	45°	696.7	578.6	177.7	114.5	89.5	67.0	57.7	50.9	48.3	47.7
810.1	47.5°	790.8	657.6	210.5	108.8	82.0	59.4	49.2	43.5	41.6	40.5
948.9	50°	916.9	759.2	247.0	102.4	74.6	52.2	42.2	38.6	37.3	36.3
1113.7	52.5°	1063.2	862.2	276.9	96.0	67.2	45.8	37.7	35.6	34.6	33.7
1272.7	55°	1197.4	933.2	275.2	89.3	60.0	40.7	34.6	33.3	32.0	31.2
1409.6	57.5°	1280.9	943.2	226.8	81.8	51.7	36.7	31.6	30.7	29.3	28.2
1528.1	60°	1319.3	886.4	159.0	72.1	43.5	32.9	28.4	28.0	26.1	24.6
1640.3	62.5°	1326.3	780.8	106.0	60.0	36.3	29.3	25.2	24.6	22.0	19.5
1731.4	65°	1297.9	629.9	73.4	46.9	31.0	25.4	21.6	20.4	17.6	15.1
1753.1	67.5°	1208.0	442.2	51.1	33.7	26.3	20.1	17.2	16.7	14.6	12.5
1642.8	70°	1043.3	252.1	34.1	25.2	20.8	13.8	13.6	14.0	11.9	10.2
1342.2	72.5°	799.9	115.3	21.2	18.4	14.2	9.3	10.8	11.0	9.1	7.6
837.4	75°	470.9	49.4	13.4	11.9	7.2	6.1	7.8	8.1	6.1	4.9
306.1	77.5°	160.3	18.7	8.5	7.0	3.6	3.4	5.1	5.1	3.4	1.9
61.5	80°	36.5	7.0	4.2	2.8	1.7	1.5	1.7	1.5	0.8	0.2
18.9	82.5°	10.4	2.8	1.7	1.1	0.6	0.6	0.2	0.0	0.0	0.0
6.6	85°	3.0	1.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	1.3	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>
340.3
310.8
262.3
202.0
148.4
127.8
124.2
120.6
116.8
113.2
109.6
106.0
102.2
97.1
90.3
79.9
68.5
56.6
46.9
39.9
36.0
33.5
30.7
28.0
24.2
18.2
14.2
11.9
9.3
6.8
4.2
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