

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: P945087

Luminaire Tested: **GALN-SB1A-927-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-927-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2214 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

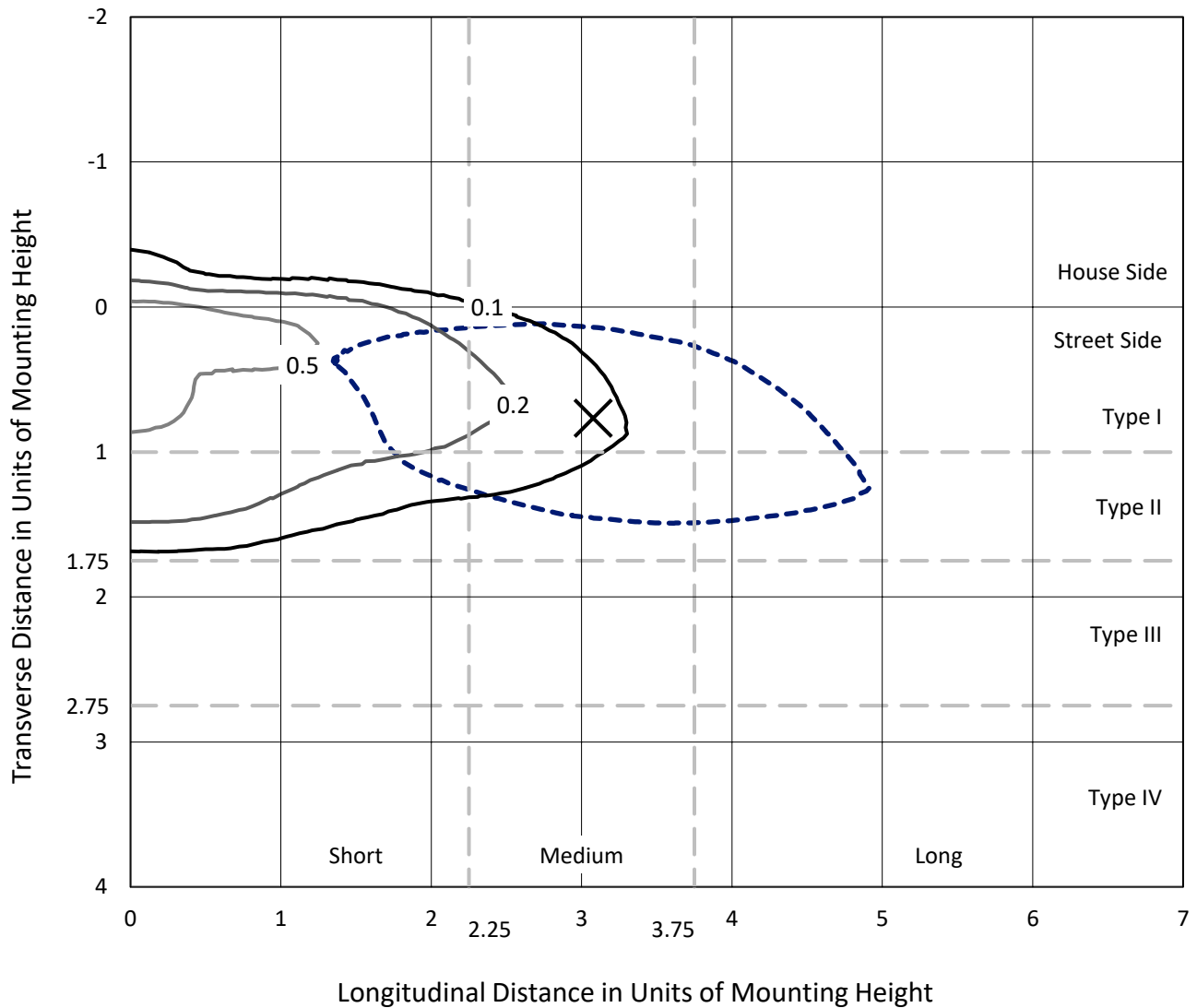
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

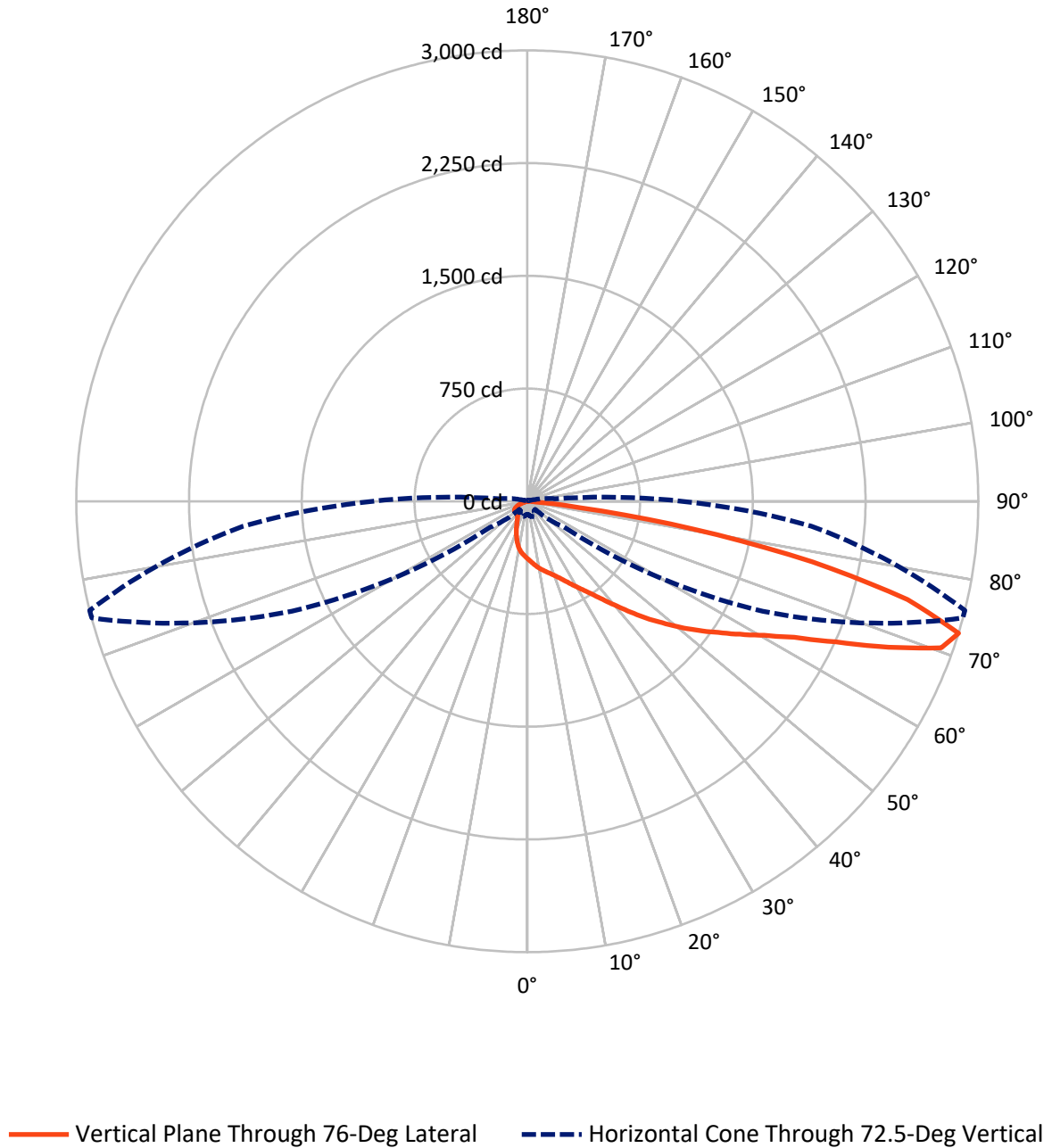
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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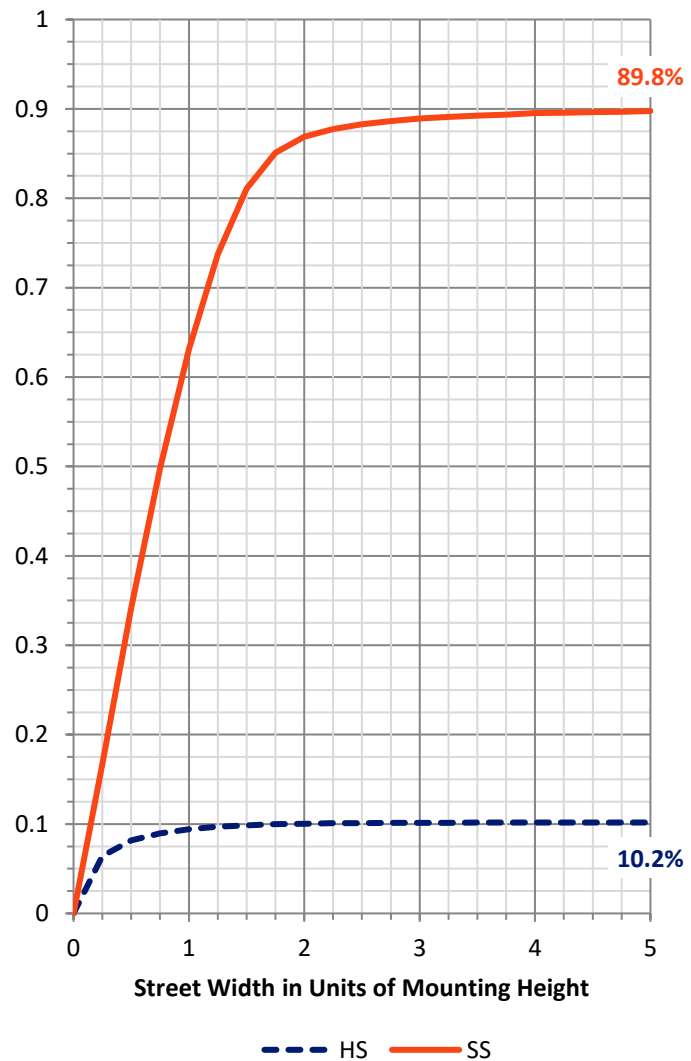
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	226.6	0.0	226.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	1987.4	0.0	1987.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	2214.0	0.0	2214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	1.6
10°-20°	93.3	4.2
20°-30°	147.7	6.7
30°-40°	228.5	10.3
40°-50°	347.0	15.7
50°-60°	478.4	21.6
60°-70°	505.4	22.8
70°-80°	346.7	15.7
80°-90°	32.3	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°	2214.0	100.0
0°-180°	2214.0	100.0

Coefficient of Utilization



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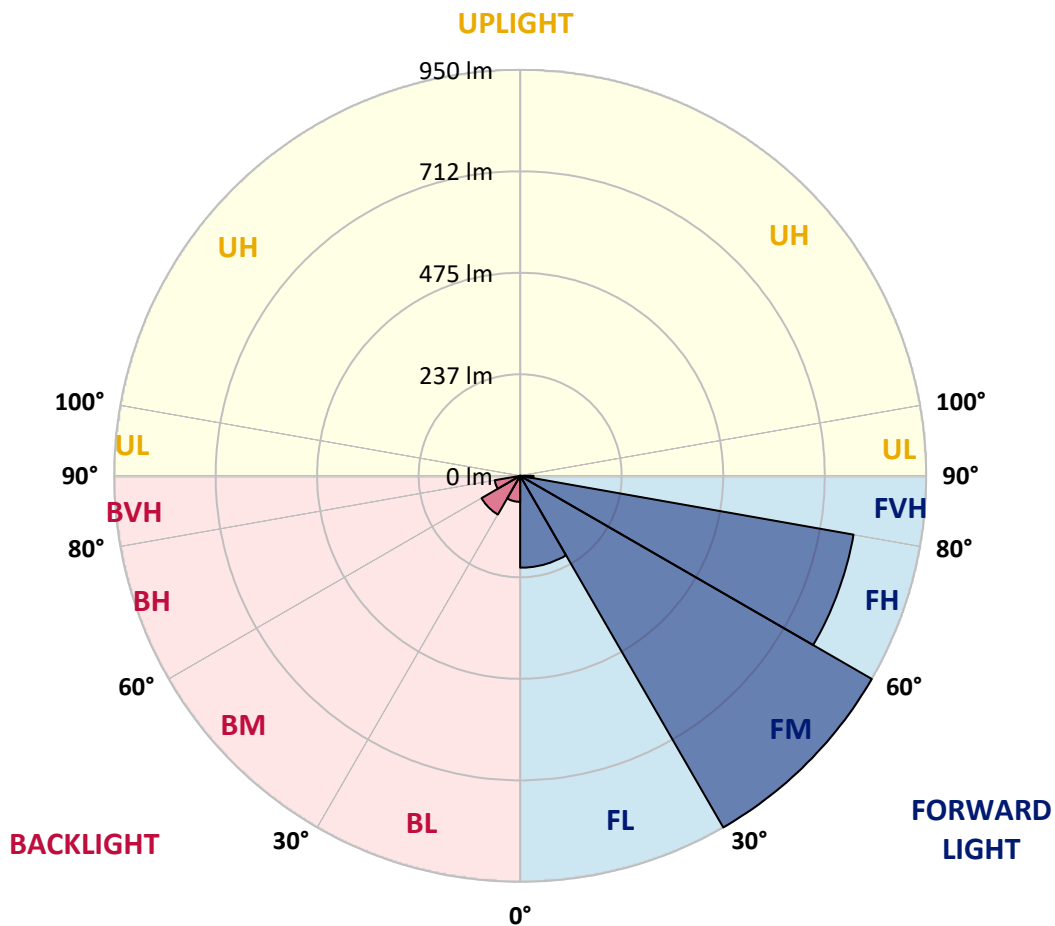
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.9	9.7			
FM (30°-60°)	949.5	42.9			
FH (60°-80°)	791.6	35.8			G1/1800
FVH (80°-90°)	31.4	1.4			G1/100
BL (0°-30°)	60.9	2.8	B0/110		
BM (30°-60°)	104.3	4.7	B0/220		
BH (60°-80°)	60.5	2.7	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: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6
2.5°	444.8	438.9	440.0	434.2	431.4	424.8	417.9	408.9	398.8	398.8
5°	491.6	487.9	487.9	481.0	475.7	465.3	453.0	437.0	418.1	416.2
7.5°	520.3	518.0	519.5	515.4	511.1	500.4	485.7	464.9	438.0	435.7
10°	525.9	525.8	529.8	531.0	533.8	528.4	515.3	491.3	457.7	454.4
12.5°	504.2	501.5	511.4	523.1	539.4	546.8	540.0	515.4	475.7	471.1
15°	468.6	469.2	478.7	496.6	523.9	550.1	558.8	539.0	493.9	488.4
17.5°	448.2	446.1	454.3	470.3	500.5	537.4	567.6	561.0	513.3	507.1
20°	445.8	445.6	447.5	454.8	477.8	519.3	566.6	582.4	536.1	528.9
22.5°	462.7	462.5	460.9	459.4	465.8	501.7	562.3	602.8	563.4	555.7
25°	488.7	488.3	485.9	477.1	470.9	492.2	558.2	621.7	595.7	587.1
27.5°	520.5	520.2	515.7	502.5	486.6	493.0	556.2	641.3	633.1	624.6
30°	559.4	558.8	549.6	531.0	510.1	506.7	559.0	663.2	672.0	665.5
32.5°	608.2	606.6	594.6	566.4	537.3	524.9	564.1	685.8	718.1	712.1
35°	646.0	643.6	636.5	611.7	568.7	547.3	576.2	712.5	773.5	768.2
37.5°	678.5	676.0	670.3	649.9	613.8	575.9	595.6	748.1	839.0	836.4
40°	713.5	709.5	706.7	684.9	652.3	617.1	623.3	789.8	914.4	914.7
42.5°	740.5	738.9	739.2	722.4	689.5	666.0	660.1	836.7	1004.8	1007.5
45°	763.6	762.3	767.6	755.9	727.0	698.0	703.2	889.9	1103.6	1109.2
47.5°	781.4	782.9	790.5	782.9	765.9	720.5	741.4	947.2	1207.4	1208.1
50°	799.2	799.8	812.4	808.7	801.8	749.1	776.5	1011.2	1316.8	1318.1
52.5°	804.8	804.0	824.1	833.3	833.6	784.4	822.1	1081.0	1424.1	1428.3
55°	776.1	778.6	811.0	848.4	863.1	833.3	883.5	1169.3	1538.4	1540.2
57.5°	635.7	649.2	721.0	807.6	882.2	903.2	971.9	1272.6	1670.4	1668.8
60°	385.8	401.8	487.7	677.3	819.9	973.4	1102.0	1432.6	1814.6	1810.2
62.5°	215.7	220.6	248.0	405.4	623.6	928.8	1229.1	1638.1	2008.2	1993.1
65°	159.0	160.6	167.0	198.6	306.5	714.4	1201.2	1883.8	2280.2	2253.4
67.5°	138.2	139.7	146.1	150.4	136.9	375.3	989.7	2020.1	2625.6	2590.4
70°	116.3	117.2	127.4	130.3	97.9	142.8	635.8	1978.1	2945.3	2920.2
72.5°	86.7	90.2	105.0	111.9	78.6	75.8	299.3	1729.4	2999.5	2999.8
75°	58.9	62.0	79.0	92.1	60.6	53.1	120.8	1291.4	2611.8	2611.8
77.5°	40.2	42.8	55.0	72.2	46.0	36.5	62.6	819.6	1873.8	1939.7
80°	17.8	19.4	35.5	52.4	34.9	23.6	35.5	448.8	1133.1	1119.2
82.5°	8.8	10.1	22.7	32.7	22.5	14.5	18.7	213.4	367.2	349.0
85°	1.7	2.3	12.2	13.9	10.5	6.5	7.0	65.6	44.2	50.6
87.5°	0.0	0.0	3.7	2.6	1.1	1.4	1.4	5.9	3.4	4.0
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°
382.6	0°	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6
389.1	2.5°	383.9	378.6	366.9	355.5	343.7	332.9	325.4	318.0	313.4	311.4
397.7	5°	386.9	376.1	351.7	326.2	300.9	276.2	257.7	240.3	234.8	225.8
407.9	7.5°	391.6	374.1	335.6	292.5	251.5	215.3	189.1	168.3	160.0	151.9
416.6	10°	394.8	370.4	314.4	256.8	201.2	160.6	135.6	120.5	115.0	110.2
424.8	12.5°	396.1	363.5	290.0	216.7	156.5	122.4	107.4	100.4	98.5	96.8
432.6	15°	397.2	356.7	262.7	178.1	123.7	102.4	96.5	94.2	92.9	91.8
440.5	17.5°	398.3	348.1	231.5	144.8	104.4	94.4	91.5	89.0	88.0	86.7
451.8	20°	401.7	339.8	203.7	119.5	93.9	88.6	85.5	82.9	82.0	81.1
467.9	22.5°	408.2	333.1	176.7	102.4	87.6	82.7	78.7	75.8	75.3	74.7
487.4	25°	415.9	324.7	151.2	91.3	81.4	76.0	71.5	69.1	68.5	68.6
510.0	27.5°	425.8	315.5	129.4	84.3	76.0	69.7	64.6	62.8	63.0	63.6
536.0	30°	436.7	307.1	112.3	79.4	71.1	64.1	59.0	57.7	58.7	59.6
570.7	32.5°	453.0	299.6	100.4	75.5	66.8	59.5	55.4	53.9	55.0	56.2
615.1	35°	475.1	295.9	93.6	72.2	63.0	55.9	51.8	50.7	51.8	52.1
669.3	37.5°	502.2	295.6	90.8	69.5	59.6	52.9	48.4	48.0	48.8	49.0
734.3	40°	537.3	297.4	88.6	67.5	56.0	49.4	45.2	44.8	45.1	46.1
812.6	42.5°	581.7	305.2	85.6	64.9	52.1	46.0	42.7	41.6	41.5	42.7
900.2	45°	637.4	322.3	81.6	60.8	48.7	43.1	39.8	38.6	38.2	38.5
990.7	47.5°	698.1	343.2	77.6	56.9	46.2	40.8	37.5	36.0	35.3	35.3
1075.3	50°	757.0	366.9	74.8	52.9	44.5	38.6	35.0	33.6	32.5	32.2
1162.3	52.5°	815.3	390.2	72.7	48.8	42.5	35.9	32.7	31.2	29.9	29.3
1248.5	55°	868.5	412.3	68.9	45.0	39.9	33.0	30.4	28.9	27.3	26.3
1335.8	57.5°	919.4	430.7	62.0	40.9	35.9	30.3	28.0	26.3	24.4	23.1
1424.1	60°	965.8	440.2	53.4	36.6	31.9	27.4	25.3	23.7	21.3	19.1
1511.0	62.5°	1001.2	436.5	44.1	31.7	27.7	24.8	22.1	20.5	17.7	15.1
1615.1	65°	1037.4	416.1	35.2	26.6	24.3	21.4	18.5	16.9	13.6	10.9
1756.0	67.5°	1084.3	372.5	27.7	22.1	21.0	16.9	14.5	13.5	11.2	8.6
1907.2	70°	1114.5	289.4	21.5	18.0	17.2	12.4	11.2	11.1	8.9	6.6
1897.1	72.5°	1031.8	189.7	16.5	13.6	12.4	8.0	8.6	8.6	6.5	4.5
1663.0	75°	861.3	111.0	11.9	9.8	7.0	5.2	5.9	5.9	4.0	2.2
1185.3	77.5°	615.1	59.2	7.9	6.0	3.6	2.3	3.2	3.0	1.3	0.1
464.6	80°	235.2	20.4	3.7	2.4	1.0	0.4	0.3	0.1	0.1	0.0
72.5	82.5°	35.9	5.3	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
15.4	85°	6.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	87.5°	1.4	0.0	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>
382.6
311.7
226.3
151.8
110.0
96.8
91.8
86.7
81.3
74.3
68.4
63.3
59.3
55.9
52.0
48.7
46.0
42.5
38.9
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