

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: P945171

Luminaire Tested: **GALN-SB1A-950-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945171
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-950-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 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: 2530 lumens
Efficiency: N/A
Efficacy: 81.9 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

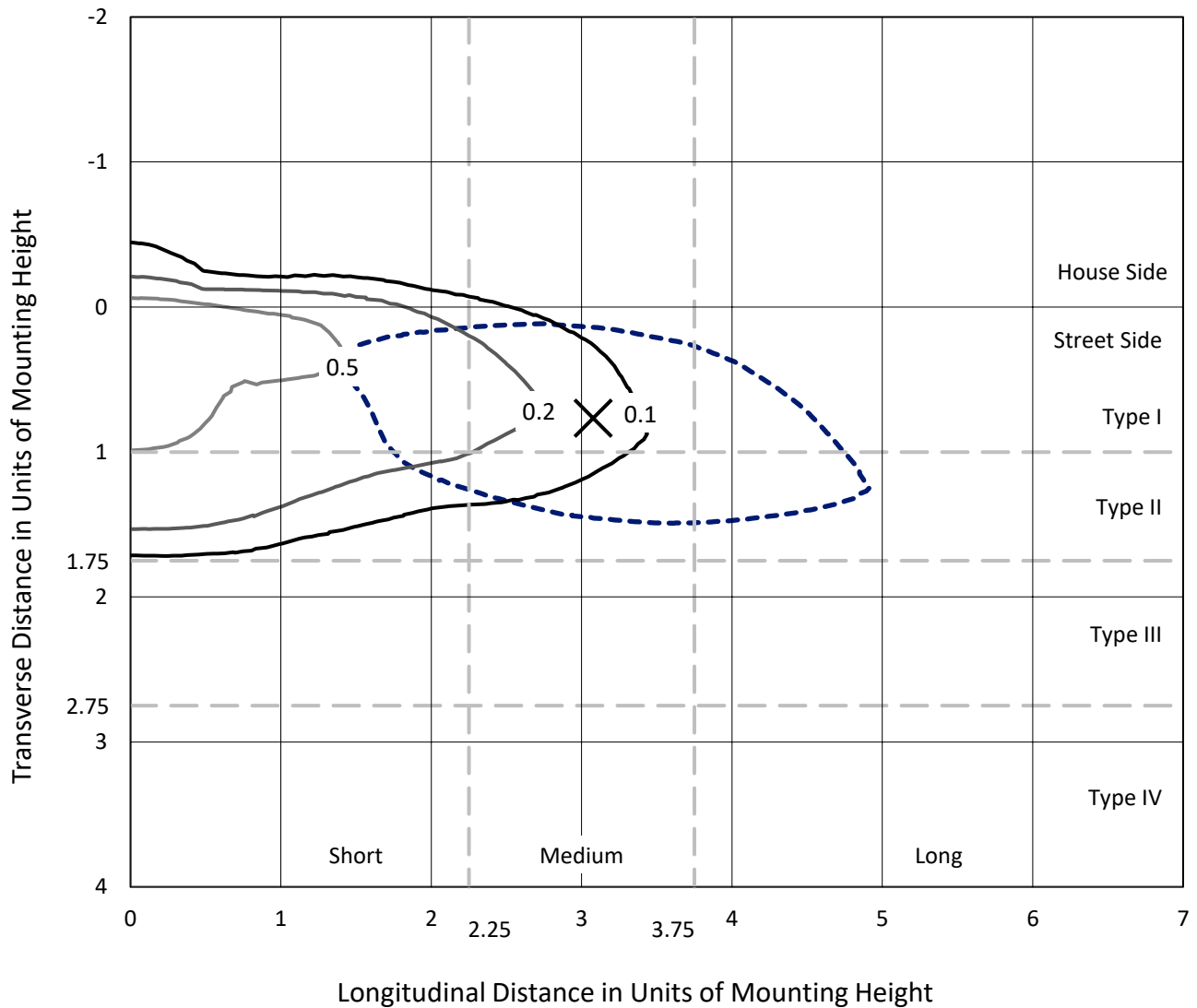
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945171
 CATALOG NUMBER: GALN-SB1A-950-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

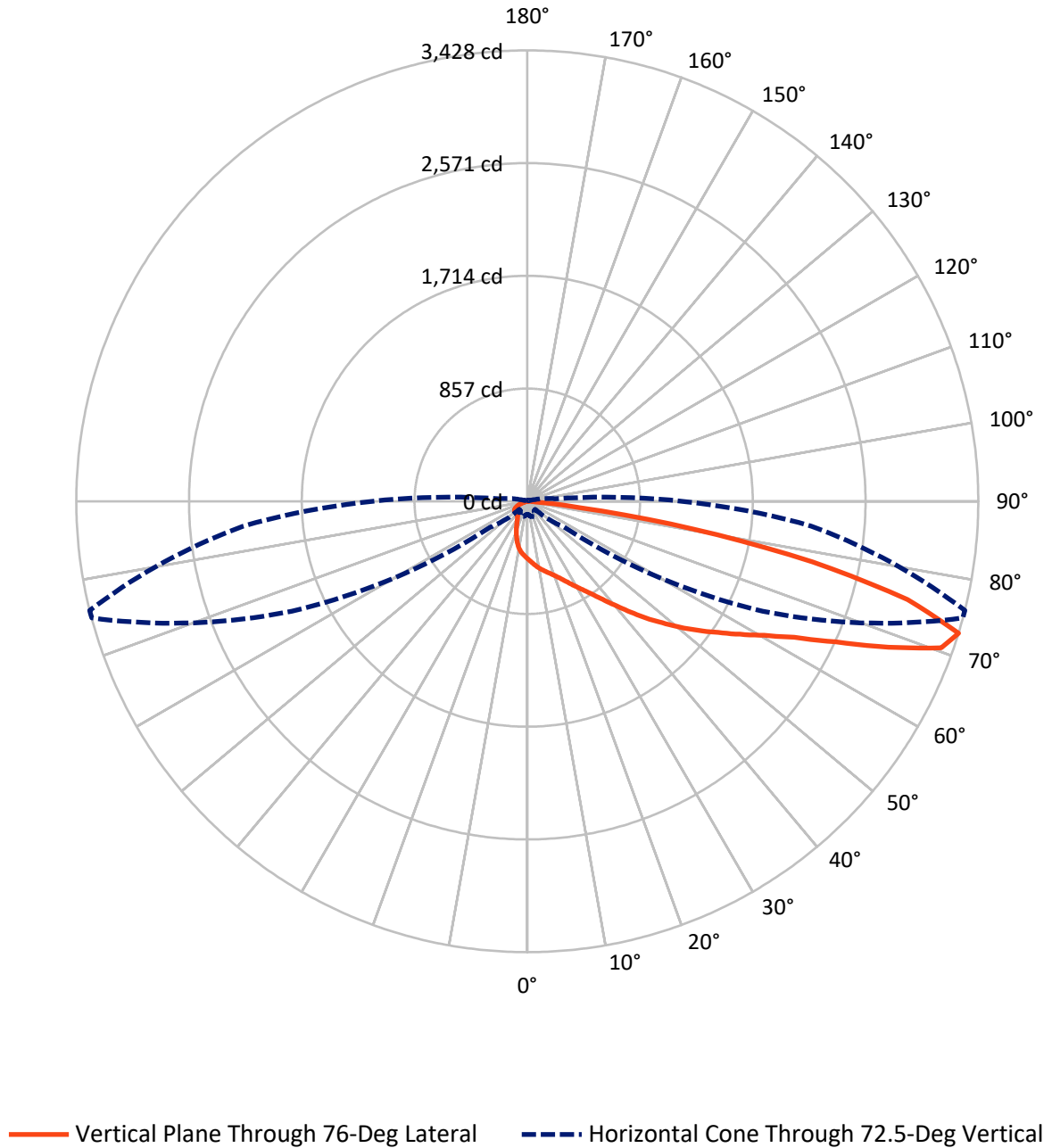
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P945171
CATALOG NUMBER: GALN-SB1A-950-U-SL2-HSS

Luminous Intensity Polar Plot



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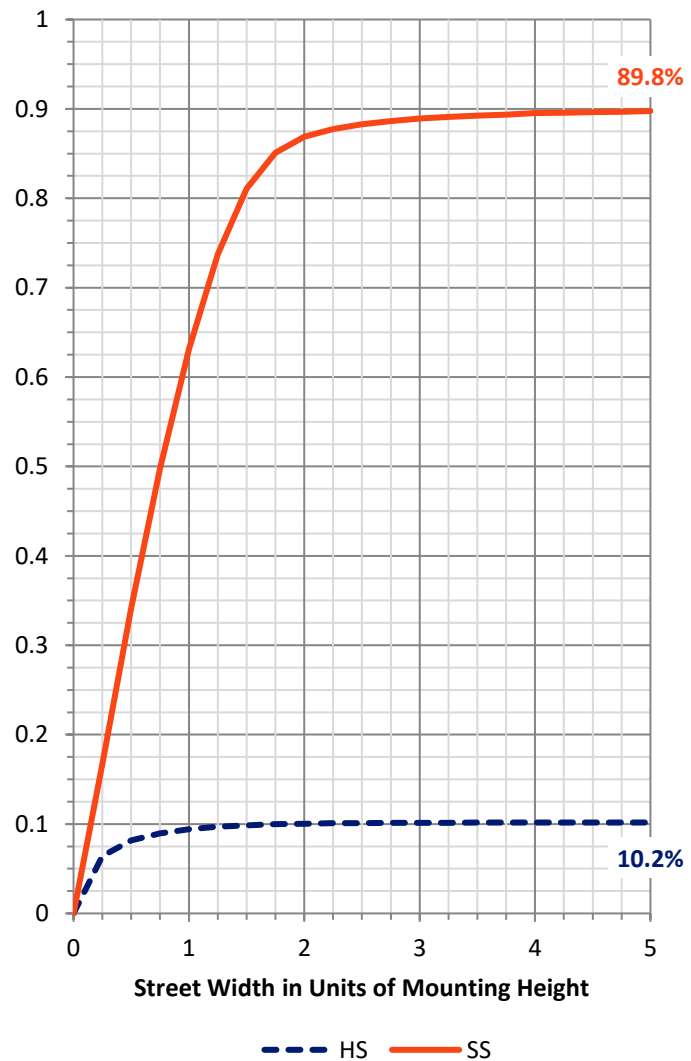
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	258.9	0.0	258.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	2271.1	0.0	2271.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	2530.0	0.0	2530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	1.6
10°-20°	106.6	4.2
20°-30°	168.7	6.7
30°-40°	261.1	10.3
40°-50°	396.5	15.7
50°-60°	546.7	21.6
60°-70°	577.5	22.8
70°-80°	396.2	15.7
80°-90°	36.9	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°	2530.0	100.0
0°-180°	2530.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945171

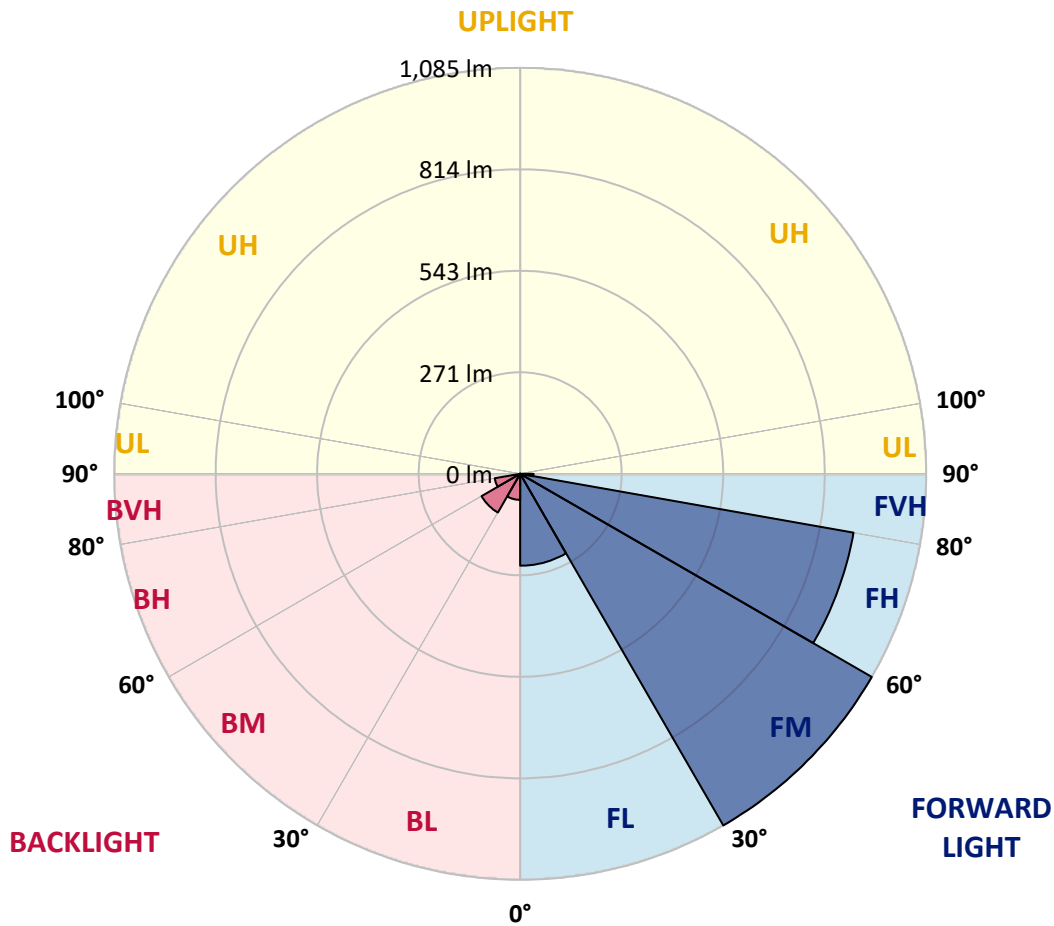
CATALOG NUMBER: GALN-SB1A-950-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.5	9.7			
FM (30°-60°)	1085.1	42.9			
FH (60°-80°)	904.6	35.8			G1/1800
FVH (80°-90°)	35.9	1.4			G1/100
BL (0°-30°)	69.6	2.8	B0/110		
BM (30°-60°)	119.2	4.7	B0/220		
BH (60°-80°)	69.1	2.7	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: B0-U0-G1

Type II Medium



REPORT NUMBER: P945171
 CATALOG NUMBER: GALN-SB1A-950-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	437.2	437.2	437.2	437.2	437.2	437.2	437.2	437.2	437.2	437.2
2.5°	508.3	501.5	502.9	496.1	493.0	485.5	477.6	467.2	455.8	455.8
5°	561.8	557.5	557.5	549.6	543.6	531.7	517.6	499.4	477.7	475.6
7.5°	594.6	592.0	593.6	589.0	584.1	571.8	555.0	531.2	500.6	497.9
10°	601.0	600.8	605.4	606.7	610.0	603.8	588.8	561.4	523.0	519.3
12.5°	576.2	573.1	584.4	597.7	616.4	624.8	617.1	589.0	543.6	538.3
15°	535.5	536.2	547.0	567.5	598.7	628.6	638.6	615.9	564.4	558.2
17.5°	512.2	509.7	519.1	537.5	571.9	614.1	648.6	641.0	586.6	579.5
20°	509.4	509.3	511.4	519.8	546.0	593.4	647.4	665.5	612.6	604.4
22.5°	528.8	528.5	526.6	525.0	532.2	573.3	642.5	688.8	643.8	635.0
25°	558.5	558.0	555.2	545.2	538.1	562.4	637.9	710.5	680.8	670.9
27.5°	594.8	594.4	589.3	574.2	556.0	563.4	635.6	732.8	723.4	713.7
30°	639.2	638.6	628.1	606.7	582.9	579.0	638.7	757.9	767.9	760.5
32.5°	695.0	693.2	679.4	647.3	614.0	599.8	644.6	783.7	820.6	813.7
35°	738.2	735.4	727.4	699.0	649.9	625.4	658.4	814.2	883.9	877.9
37.5°	775.3	772.5	765.9	742.6	701.4	658.1	680.6	854.9	958.8	955.8
40°	815.3	810.7	807.6	782.7	745.4	705.2	712.3	902.5	1044.9	1045.3
42.5°	846.2	844.4	844.7	825.5	787.9	761.0	754.3	956.1	1148.2	1151.3
45°	872.6	871.1	877.2	863.7	830.8	797.6	803.5	1016.9	1261.1	1267.5
47.5°	893.0	894.6	903.3	894.6	875.2	823.4	847.2	1082.3	1379.7	1380.5
50°	913.3	914.0	928.4	924.1	916.3	856.0	887.4	1155.5	1504.8	1506.3
52.5°	919.7	918.7	941.7	952.2	952.5	896.4	939.4	1235.3	1627.4	1632.1
55°	886.9	889.7	926.8	969.4	986.3	952.2	1009.6	1336.2	1758.0	1760.0
57.5°	726.4	741.8	823.9	922.8	1008.2	1032.1	1110.6	1454.2	1908.8	1907.0
60°	440.8	459.2	557.3	774.0	936.9	1112.4	1259.3	1637.1	2073.6	2068.5
62.5°	246.5	252.1	283.4	463.3	712.6	1061.3	1404.5	1871.9	2294.8	2277.6
65°	181.7	183.5	190.9	227.0	350.2	816.3	1372.7	2152.7	2605.7	2575.0
67.5°	157.9	159.7	166.9	171.8	156.4	428.8	1130.9	2308.5	3000.4	2960.2
70°	132.9	133.9	145.6	148.9	111.9	163.1	726.5	2260.4	3365.7	3337.0
72.5°	99.1	103.1	120.0	127.8	89.8	86.7	342.0	1976.3	3427.6	3427.9
75°	67.3	70.9	90.3	105.2	69.3	60.7	138.0	1475.7	2984.6	2984.6
77.5°	46.0	48.9	62.9	82.6	52.5	41.7	71.6	936.6	2141.2	2216.6
80°	20.4	22.2	40.5	59.9	39.9	26.9	40.5	512.9	1294.9	1279.0
82.5°	10.0	11.5	25.9	37.4	25.8	16.6	21.3	243.9	419.6	398.8
85°	2.0	2.6	13.9	15.9	12.0	7.4	8.0	75.0	50.5	57.8
87.5°	0.0	0.0	4.3	3.0	1.3	1.6	1.6	6.7	3.9	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945171
 CATALOG NUMBER: GALN-SB1A-950-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
437.2	0°	437.2	437.2	437.2	437.2	437.2	437.2	437.2	437.2	437.2	437.2
444.6	2.5°	438.7	432.6	419.3	406.2	392.7	380.4	371.9	363.4	358.1	355.8
454.4	5°	442.1	429.8	401.9	372.7	343.8	315.6	294.4	274.6	268.3	258.0
466.1	7.5°	447.5	427.5	383.5	334.3	287.4	246.0	216.1	192.3	182.8	173.6
476.1	10°	451.2	423.3	359.3	293.4	229.9	183.5	154.9	137.7	131.5	125.9
485.5	12.5°	452.6	415.4	331.4	247.7	178.9	139.8	122.8	114.7	112.6	110.6
494.3	15°	453.9	407.7	300.2	203.5	141.3	117.0	110.3	107.7	106.2	104.9
503.3	17.5°	455.1	397.8	264.6	165.4	119.3	107.8	104.5	101.8	100.6	99.1
516.3	20°	459.0	388.3	232.7	136.5	107.3	101.3	97.6	94.7	93.7	92.7
534.7	22.5°	466.4	380.6	201.9	117.0	100.1	94.5	89.9	86.7	86.0	85.3
557.0	25°	475.3	371.1	172.8	104.4	93.1	86.8	81.7	78.9	78.3	78.4
582.8	27.5°	486.6	360.6	147.9	96.3	86.8	79.6	73.9	71.7	72.0	72.7
612.5	30°	499.1	350.9	128.3	90.8	81.2	73.2	67.5	66.0	67.1	68.1
652.2	32.5°	517.6	342.3	114.7	86.3	76.3	67.9	63.3	61.5	62.9	64.2
702.9	35°	542.9	338.1	107.0	82.6	72.0	63.8	59.2	57.9	59.2	59.6
764.8	37.5°	573.9	337.8	103.7	79.4	68.1	60.4	55.3	54.8	55.8	56.0
839.1	40°	614.0	339.9	101.3	77.1	64.0	56.5	51.7	51.2	51.5	52.7
928.6	42.5°	664.7	348.7	97.8	74.2	59.6	52.5	48.7	47.6	47.4	48.7
1028.7	45°	728.3	368.3	93.2	69.4	55.6	49.2	45.5	44.1	43.7	44.0
1132.1	47.5°	797.8	392.2	88.6	65.0	52.8	46.6	42.8	41.2	40.4	40.4
1228.7	50°	865.1	419.3	85.5	60.4	50.9	44.1	40.0	38.4	37.1	36.8
1328.2	52.5°	931.7	445.9	83.0	55.8	48.6	41.0	37.4	35.6	34.1	33.5
1426.7	55°	992.4	471.2	78.8	51.4	45.6	37.7	34.8	33.0	31.2	30.0
1526.4	57.5°	1050.7	492.2	70.9	46.8	41.0	34.6	32.0	30.0	27.9	26.4
1627.4	60°	1103.7	503.0	61.1	41.8	36.4	31.3	28.9	27.1	24.3	21.8
1726.7	62.5°	1144.1	498.7	50.4	36.3	31.7	28.4	25.3	23.5	20.2	17.2
1845.7	65°	1185.4	475.4	40.2	30.4	27.7	24.5	21.2	19.4	15.6	12.5
2006.7	67.5°	1239.1	425.7	31.7	25.3	24.0	19.4	16.6	15.4	12.8	9.8
2179.5	70°	1273.5	330.7	24.6	20.5	19.7	14.1	12.8	12.6	10.2	7.5
2167.8	72.5°	1179.0	216.8	18.9	15.6	14.1	9.2	9.8	9.8	7.4	5.1
1900.3	75°	984.2	126.9	13.6	11.2	8.0	5.9	6.7	6.7	4.6	2.5
1354.5	77.5°	702.9	67.6	9.0	6.9	4.1	2.6	3.6	3.4	1.5	0.2
530.9	80°	268.8	23.3	4.3	2.8	1.1	0.5	0.3	0.2	0.2	0.0
82.9	82.5°	41.0	6.1	0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
17.6	85°	7.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	1.6	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>
437.2
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