

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: P944929

Luminaire Tested: **GALN-SB1A-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1A-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3628 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

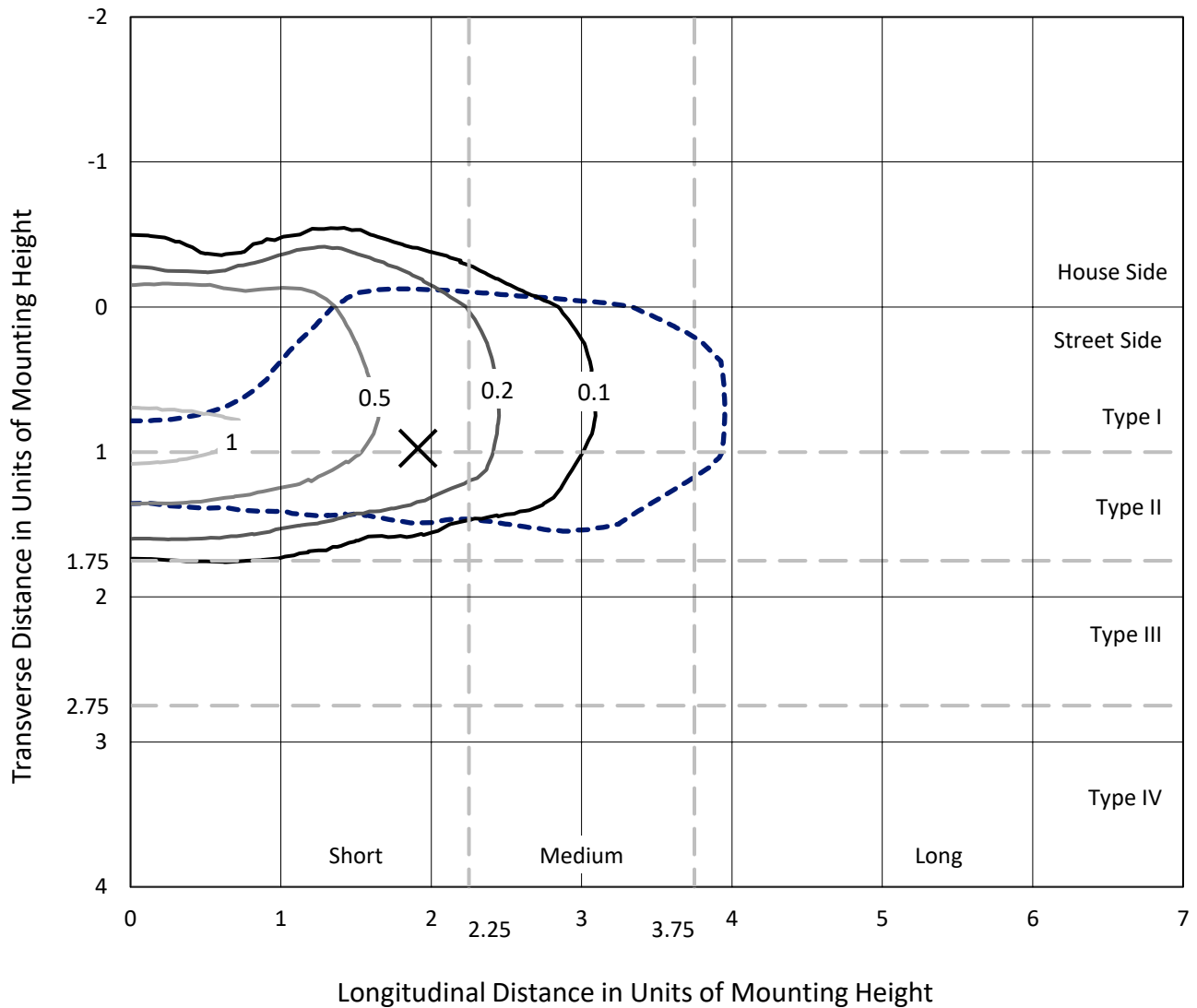
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

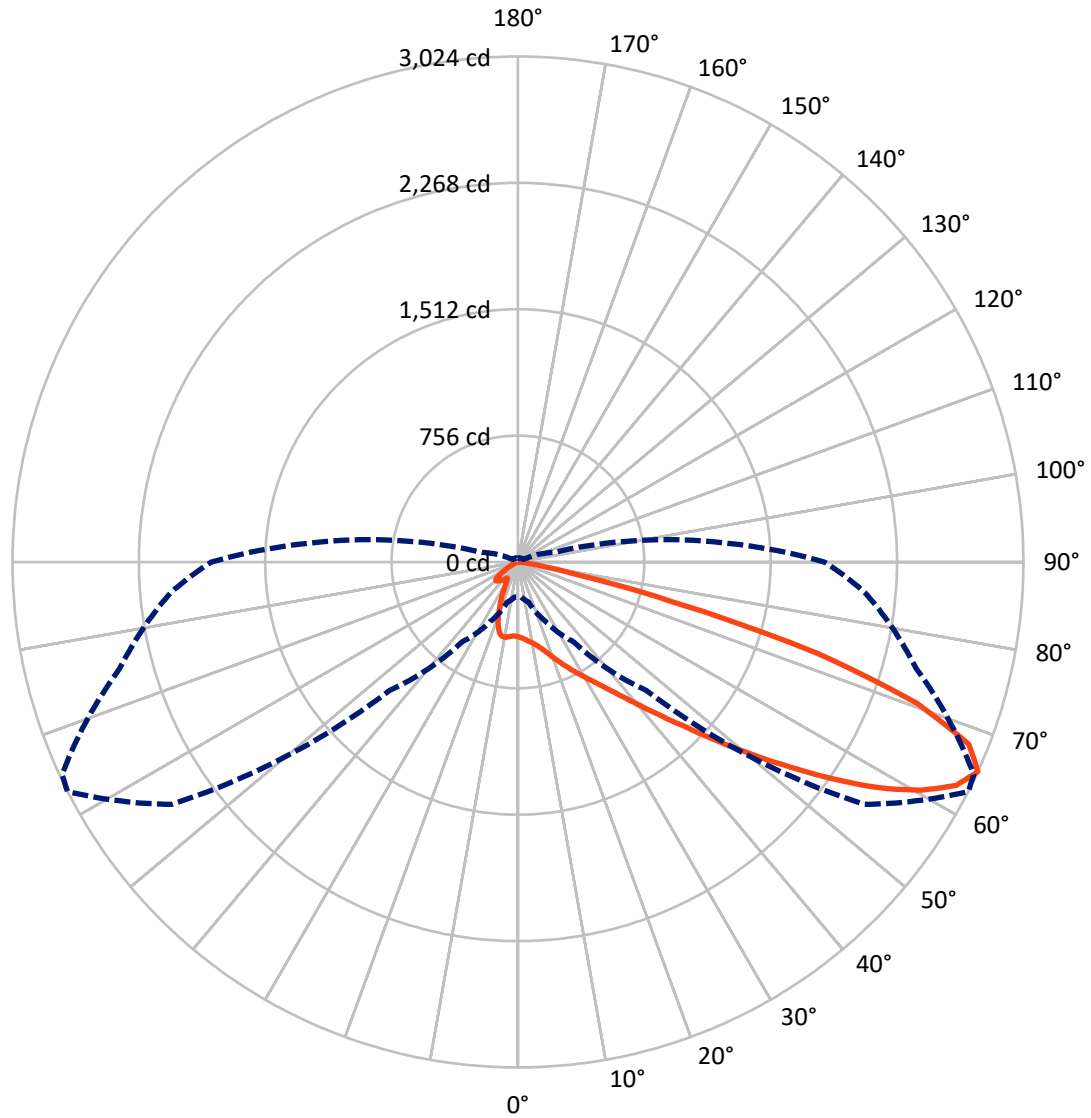
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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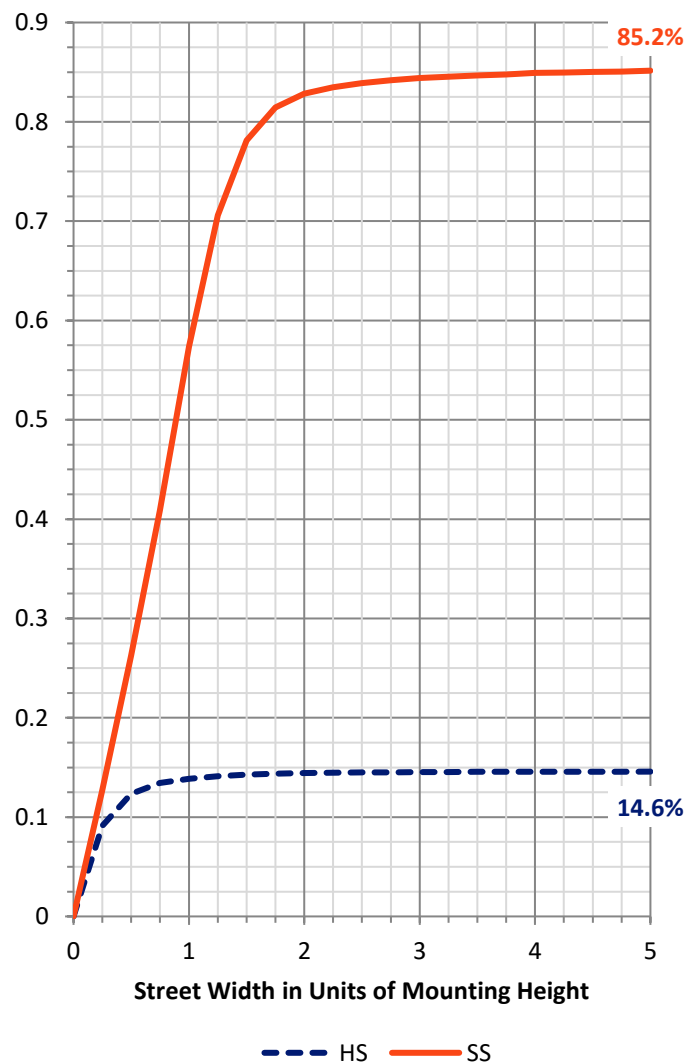
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.3	0.0	533.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3094.7	0.0	3094.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	3628.0	0.0	3628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.2
10°-20°	117.1	3.2
20°-30°	203.8	5.6
30°-40°	367.4	10.1
40°-50°	728.6	20.1
50°-60°	992.5	27.4
60°-70°	792.2	21.8
70°-80°	358.5	9.9
80°-90°	25.8	0.7
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°	3628.0	100.0
0°-180°	3628.0	100.0

Coefficient of Utilization



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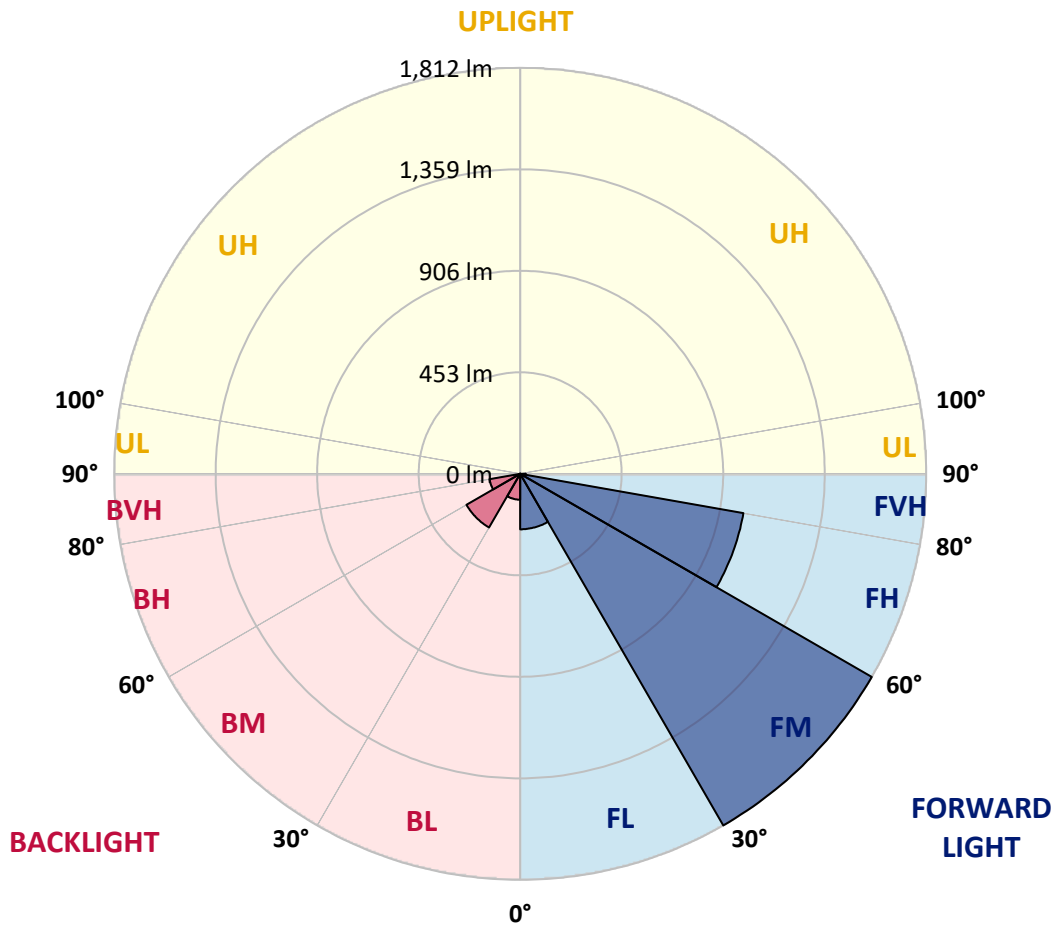
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.7	6.8			
FM (30°-60°)	1811.7	49.9			
FH (60°-80°)	1011.5	27.9			G1/1800
FVH (80°-90°)	23.9	0.7			G1/100
BL (0°-30°)	115.4	3.2	B1/500		
BM (30°-60°)	276.7	7.6	B1/1000		
BH (60°-80°)	139.2	3.8	B1/500		G1/500
BVH (80°-90°)	1.9	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8
2.5°	458.2	457.0	458.7	458.0	457.5	456.5	456.0	455.5	454.5	453.8
5°	459.5	458.7	460.5	462.0	463.5	465.0	465.7	466.7	465.7	463.7
7.5°	449.0	448.5	452.3	456.7	463.5	469.2	475.5	479.0	479.2	478.5
10°	448.3	447.0	450.8	456.2	465.0	475.2	486.2	493.7	494.7	497.9
12.5°	460.0	458.7	464.0	470.0	479.0	489.7	503.2	513.7	515.2	519.6
15°	479.7	478.0	484.0	491.7	503.2	515.4	529.6	539.1	540.4	545.9
17.5°	502.7	500.9	507.9	516.2	528.6	545.4	561.8	572.3	573.8	577.3
20°	532.1	529.9	535.4	542.9	556.1	576.1	595.8	610.7	610.5	610.5
22.5°	566.3	562.8	567.6	573.6	586.0	610.2	636.5	654.2	654.2	647.2
25°	603.0	599.5	604.8	610.2	621.2	648.7	679.4	701.3	702.3	690.4
27.5°	648.9	644.4	648.4	654.9	661.4	689.4	725.8	751.3	751.8	733.3
30°	737.3	724.6	712.1	705.1	708.1	735.8	774.7	802.9	805.4	780.0
32.5°	899.0	896.5	852.6	795.2	765.2	785.7	829.4	863.3	864.8	832.1
35°	1150.4	1147.4	1076.7	967.4	869.8	852.6	895.8	936.0	935.0	898.0
37.5°	1450.4	1447.6	1354.5	1208.3	1050.3	953.7	981.4	1023.6	1029.8	981.4
40°	1706.7	1696.5	1637.6	1496.5	1289.9	1121.4	1103.2	1131.1	1137.6	1080.2
42.5°	1900.9	1892.1	1862.2	1774.1	1579.9	1369.5	1246.7	1257.4	1264.7	1195.8
45°	2001.5	1999.5	2011.4	2003.2	1875.4	1674.0	1451.9	1407.2	1409.9	1323.8
47.5°	2015.7	2014.7	2069.3	2146.7	2129.5	2017.4	1715.2	1593.9	1584.1	1468.3
50°	1931.8	1929.8	2034.7	2179.7	2299.2	2306.0	2014.2	1804.3	1782.8	1617.8
52.5°	1664.0	1663.5	1835.7	2077.1	2358.9	2558.5	2309.7	2035.4	1999.5	1776.1
55°	1280.4	1289.6	1487.1	1772.3	2250.1	2680.1	2575.0	2292.0	2236.8	1935.3
57.5°	907.0	920.5	1115.7	1369.7	1912.6	2608.2	2754.5	2549.1	2489.7	2094.1
60°	487.2	499.2	694.6	997.9	1422.9	2340.2	2849.1	2772.2	2716.0	2244.8
62.5°	290.3	294.3	375.1	644.2	962.4	1787.8	2808.9	2942.2	2896.0	2371.4
65°	208.4	209.2	249.8	393.4	584.3	1086.2	2527.1	3023.5	3009.3	2466.7
67.5°	175.5	175.0	191.9	261.3	398.1	544.1	1936.8	2908.5	2968.9	2527.1
70°	150.5	151.3	171.2	191.4	299.3	308.0	962.9	2532.3	2661.1	2543.1
72.5°	112.1	114.6	133.0	174.5	225.9	211.9	332.5	1877.7	2110.5	2396.1
75°	79.1	80.4	93.6	146.8	168.5	154.2	169.7	970.7	1269.2	1837.0
77.5°	60.9	63.1	70.9	102.6	166.0	108.3	103.8	335.9	516.2	1109.7
80°	32.9	36.9	51.2	74.1	116.6	76.6	51.4	133.8	175.0	518.9
82.5°	17.0	19.0	35.7	53.4	66.4	66.9	25.5	55.7	72.1	160.2
85°	6.7	8.2	24.0	29.5	34.2	32.9	11.5	22.5	26.0	44.4
87.5°	1.5	2.5	8.7	6.7	6.5	7.0	2.7	5.2	5.0	5.2
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°
447.8	0°	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8
450.8	2.5°	450.5	449.5	446.8	443.8	440.3	438.3	437.0	436.8	435.0	433.8
460.7	5°	458.0	457.0	451.8	445.5	438.8	433.5	428.5	424.1	417.6	416.3
475.2	7.5°	473.0	470.2	461.7	453.3	440.5	425.3	406.8	385.6	366.6	360.9
494.4	10°	491.4	487.7	477.0	462.0	433.8	392.4	347.7	306.2	273.3	264.1
517.1	12.5°	512.4	509.2	494.9	467.2	405.6	330.5	262.1	210.7	178.7	170.7
541.4	15°	537.4	532.6	512.9	459.2	355.2	251.1	180.0	149.5	138.0	136.5
569.1	17.5°	563.8	556.1	528.9	430.5	287.3	178.5	139.0	130.3	125.3	123.8
597.0	20°	588.0	578.0	538.4	387.1	214.6	139.0	124.5	118.8	114.3	112.6
625.0	22.5°	612.2	598.0	538.4	328.0	161.0	123.3	114.3	109.1	103.8	101.6
654.9	25°	637.5	618.5	528.9	262.1	129.5	113.1	104.6	98.8	94.3	91.6
683.4	27.5°	661.9	635.7	507.2	199.7	115.3	104.1	95.6	90.1	85.9	83.9
714.3	30°	685.1	652.7	476.7	151.5	106.1	95.3	87.4	82.6	78.4	76.4
754.5	32.5°	716.6	674.1	444.3	124.3	98.1	87.1	79.9	75.4	71.6	70.1
806.7	35°	760.2	705.8	416.3	122.0	91.3	80.4	73.1	68.9	65.1	63.9
874.1	37.5°	822.1	757.0	401.6	137.0	85.9	74.4	67.6	63.1	59.7	58.7
959.7	40°	898.5	826.4	409.6	152.0	82.1	69.1	62.6	58.2	55.2	53.9
1058.0	42.5°	989.1	912.0	453.8	163.5	79.6	64.6	57.9	52.9	50.9	50.4
1169.6	45°	1093.2	1006.1	521.4	175.7	75.6	60.4	53.2	49.4	47.9	47.7
1290.9	47.5°	1211.5	1109.4	599.8	190.9	71.6	56.4	49.4	46.9	45.7	45.2
1417.4	50°	1328.8	1213.5	680.4	199.4	68.4	52.7	46.4	44.4	43.4	43.2
1551.2	52.5°	1451.6	1320.6	745.5	191.4	65.6	49.7	43.9	42.4	41.4	41.2
1674.5	55°	1568.7	1407.2	756.8	162.5	60.2	46.7	41.2	40.4	39.2	39.2
1799.5	57.5°	1669.5	1450.6	677.4	119.3	54.7	42.2	38.4	37.7	36.7	36.4
1912.4	60°	1762.1	1438.1	522.9	80.4	48.7	37.7	34.9	34.4	33.4	32.2
2010.4	62.5°	1814.3	1383.2	357.7	52.4	42.7	32.9	30.9	30.7	28.5	26.0
2083.1	65°	1834.0	1270.4	223.1	38.2	35.7	28.2	26.7	26.2	23.0	20.2
2124.3	67.5°	1816.8	1084.7	112.6	30.2	28.2	23.5	22.0	22.0	19.7	17.2
2121.8	70°	1747.9	813.2	47.4	24.2	21.7	18.0	18.0	19.0	16.7	14.0
2011.7	72.5°	1598.4	547.1	25.2	18.5	16.2	12.7	14.7	15.5	13.2	10.5
1646.5	75°	1270.7	333.7	17.5	13.7	10.2	9.0	11.2	11.7	9.0	7.0
1128.9	77.5°	869.1	191.7	11.7	8.7	6.5	5.2	7.7	7.2	4.7	3.2
435.3	80°	381.6	79.9	6.7	4.0	2.5	2.0	2.7	2.0	1.5	1.0
59.7	82.5°	44.7	18.7	2.5	1.5	1.0	0.5	0.2	0.0	0.0	0.0
18.2	85°	9.2	2.2	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0
3.2	87.5°	1.7	0.5	0.2	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>
447.8
435.0
415.8
358.2
260.6
168.5
135.0
123.0
111.6
100.3
90.6
83.9
76.6
70.1
63.9
58.4
53.7
50.4
47.4
45.2
43.2
41.2
38.9
36.2
31.9
25.5
20.0
17.0
13.7
10.5
6.7
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1.0
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