

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: P945433

Luminaire Tested: **GALN-SB1B-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945433
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-SB1B-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA 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: 4118 lumens
Efficiency: N/A
Efficacy: 103.5 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

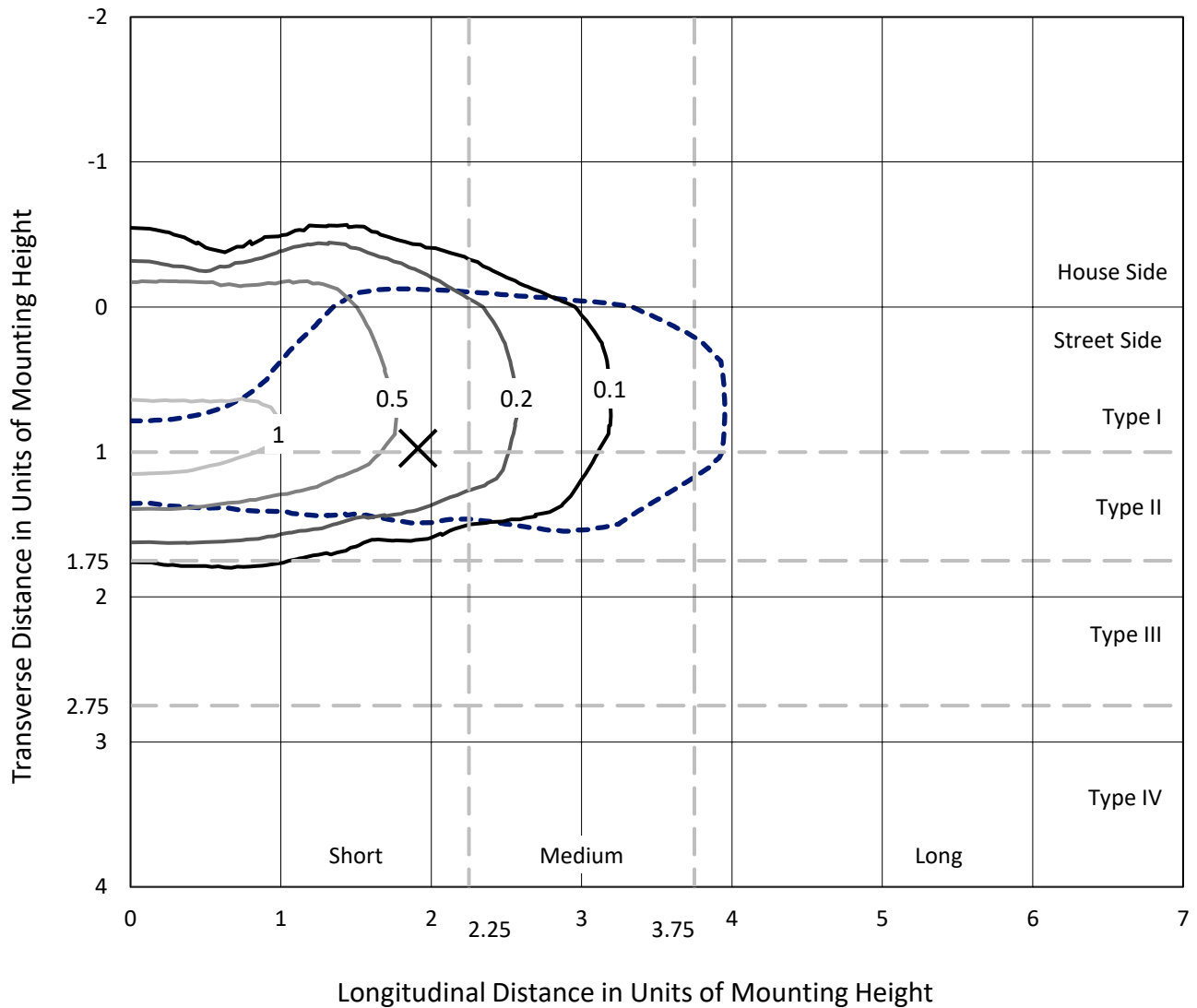
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

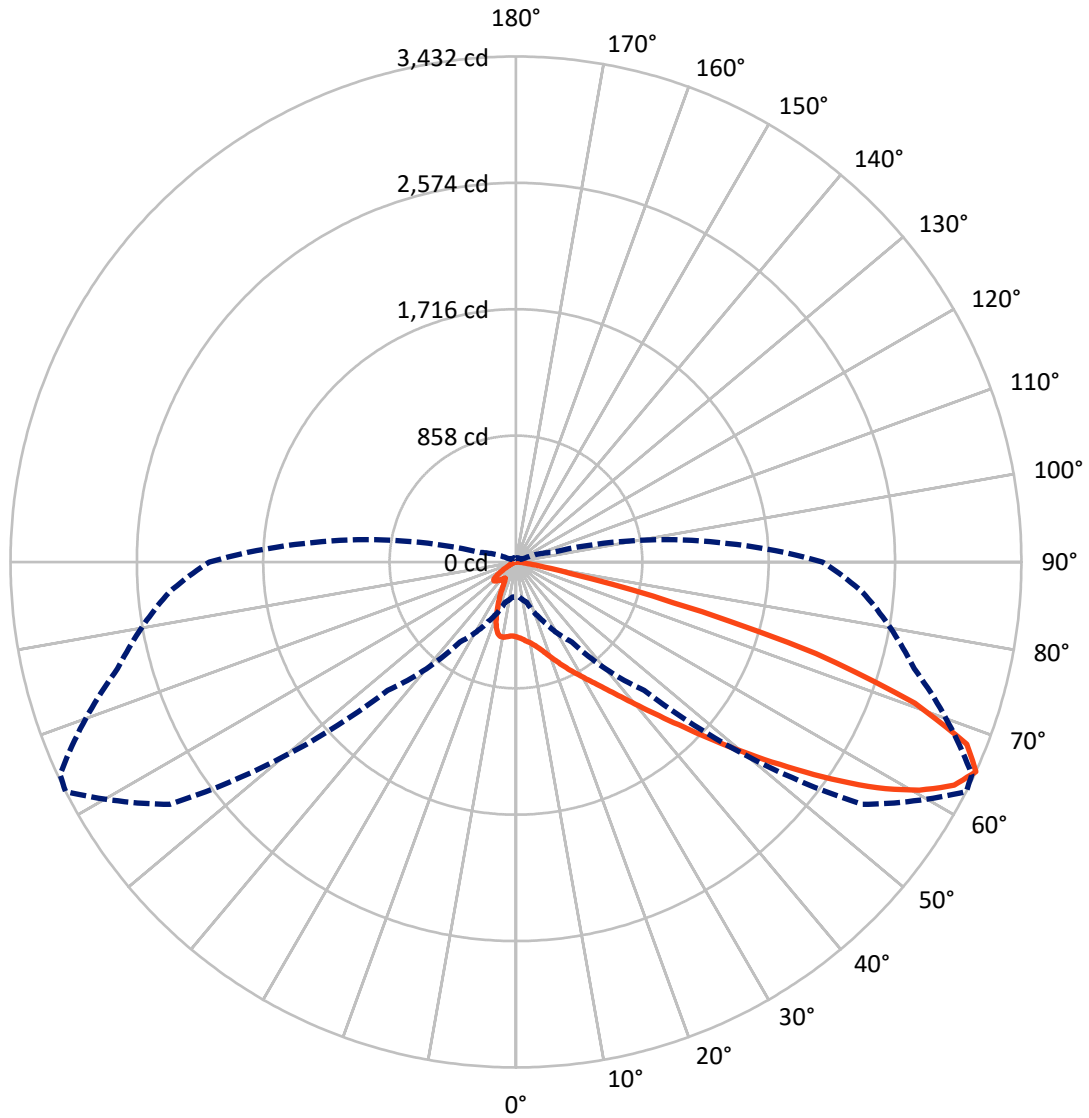
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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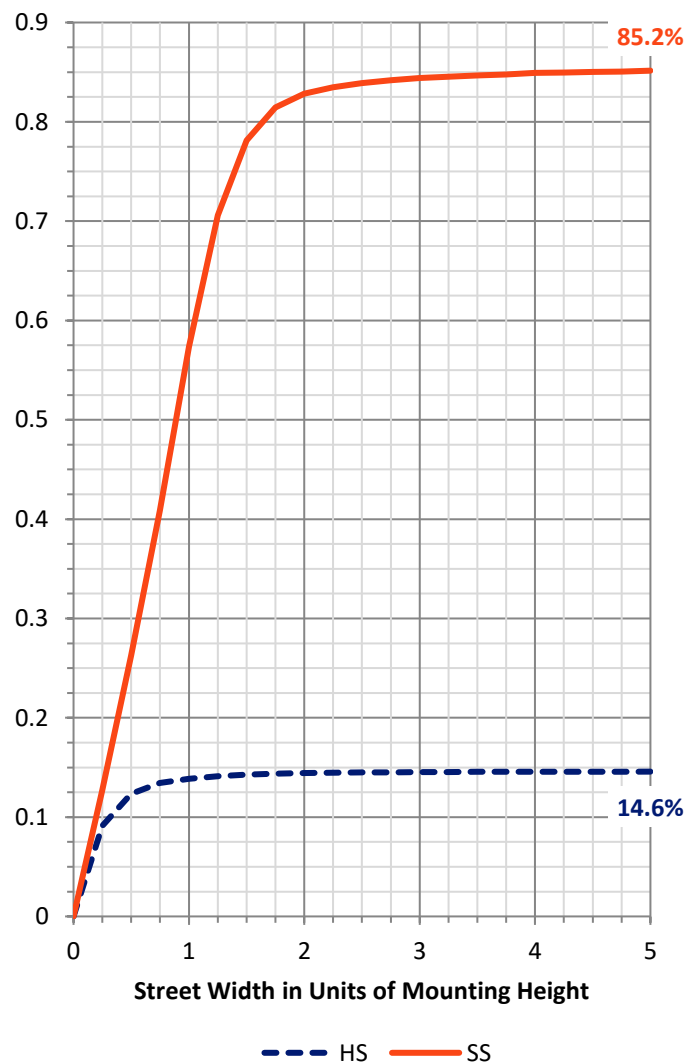
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.3	0.0	605.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3512.7	0.0	3512.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	4118.0	0.0	4118.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.2
10°-20°	132.9	3.2
20°-30°	231.4	5.6
30°-40°	417.0	10.1
40°-50°	827.0	20.1
50°-60°	1126.5	27.4
60°-70°	899.2	21.8
70°-80°	406.9	9.9
80°-90°	29.2	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°	4118.0	100.0
0°-180°	4118.0	100.0



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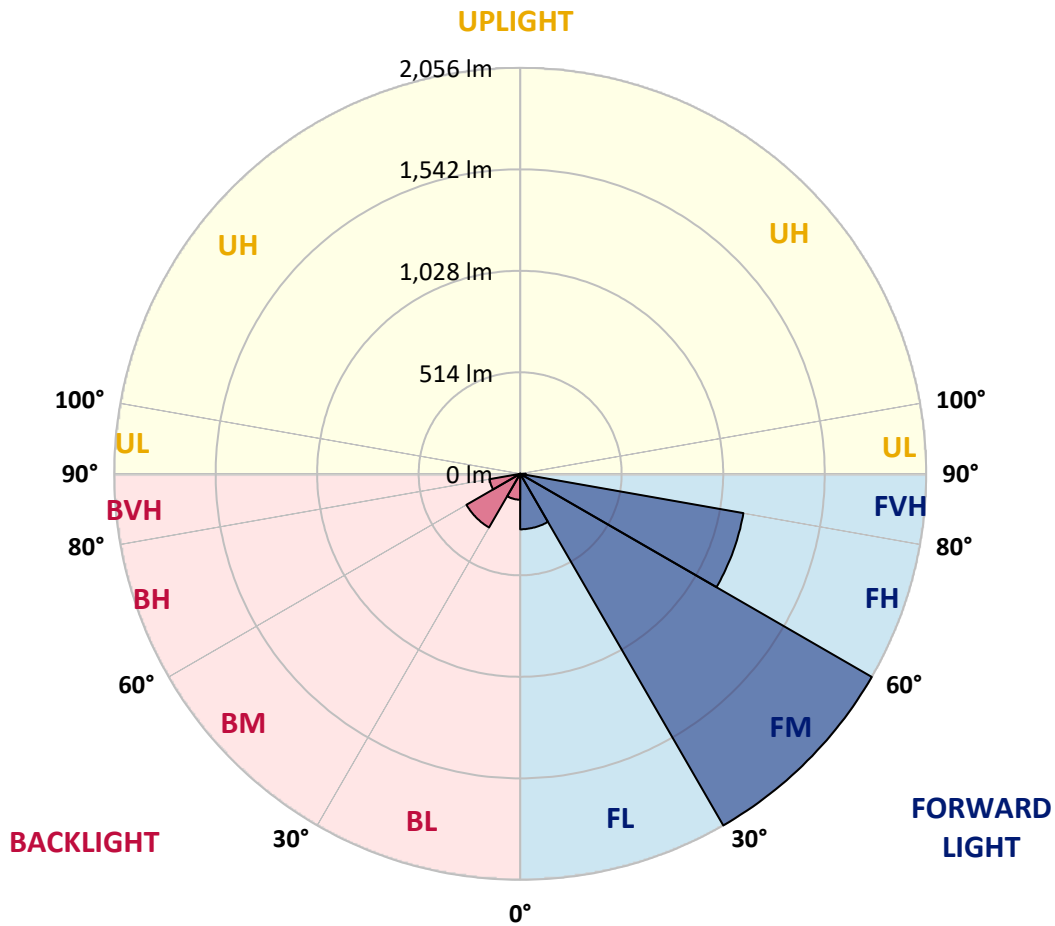
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.1	6.8			
FM (30°-60°)	2056.4	49.9			
FH (60°-80°)	1148.1	27.9			G1/1800
FVH (80°-90°)	27.1	0.7			G1/100
BL (0°-30°)	131.0	3.2	B1/500		
BM (30°-60°)	314.1	7.6	B1/1000		
BH (60°-80°)	158.0	3.8	B1/500		G1/500
BVH (80°-90°)	2.2	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°	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2
2.5°	520.1	518.7	520.7	519.9	519.3	518.2	517.6	517.0	515.9	515.0
5°	521.6	520.7	522.7	524.4	526.1	527.8	528.6	529.8	528.6	526.4
7.5°	509.7	509.1	513.3	518.4	526.1	532.6	539.7	543.7	543.9	543.1
10°	508.8	507.4	511.6	517.9	527.8	539.4	551.9	560.4	561.5	565.2
12.5°	522.1	520.7	526.7	533.5	543.7	555.8	571.1	583.0	584.7	589.8
15°	544.5	542.5	549.3	558.1	571.1	585.0	601.2	611.9	613.3	619.6
17.5°	570.6	568.6	576.5	585.9	600.0	619.0	637.7	649.6	651.3	655.3
20°	604.0	601.4	607.7	616.2	631.2	653.9	676.2	693.2	693.0	693.0
22.5°	642.8	638.8	644.2	651.0	665.2	692.7	722.4	742.5	742.5	734.6
25°	684.5	680.5	686.4	692.7	705.1	736.3	771.1	796.1	797.2	783.6
27.5°	736.6	731.5	736.0	743.4	750.7	782.5	823.8	852.7	853.3	832.3
30°	836.9	822.4	808.3	800.3	803.7	835.2	879.4	911.4	914.2	885.3
32.5°	1020.4	1017.6	967.8	902.6	868.6	891.8	941.4	979.9	981.6	944.5
35°	1305.7	1302.3	1222.2	1098.1	987.3	967.8	1016.8	1062.4	1061.2	1019.3
37.5°	1646.3	1643.1	1537.5	1371.5	1192.1	1082.5	1113.9	1161.8	1168.9	1113.9
40°	1937.2	1925.6	1858.7	1698.7	1464.1	1272.9	1252.2	1283.9	1291.3	1226.1
42.5°	2157.6	2147.7	2113.7	2013.7	1793.3	1554.5	1415.1	1427.3	1435.5	1357.3
45°	2271.8	2269.5	2283.1	2273.8	2128.7	1900.1	1648.0	1597.2	1600.4	1502.6
47.5°	2287.9	2286.8	2348.8	2436.7	2417.1	2289.9	1946.8	1809.1	1798.1	1666.6
50°	2192.7	2190.5	2309.5	2474.1	2609.8	2617.4	2286.2	2048.0	2023.6	1836.3
52.5°	1888.8	1888.2	2083.7	2357.6	2677.5	2904.1	2621.7	2310.3	2269.5	2016.0
55°	1453.3	1463.8	1687.9	2011.7	2553.9	3042.1	2922.8	2601.5	2538.9	2196.7
57.5°	1029.5	1044.8	1266.3	1554.7	2170.9	2960.5	3126.5	2893.3	2825.9	2376.9
60°	553.0	566.6	788.4	1132.6	1615.1	2656.2	3233.9	3146.6	3082.9	2548.0
62.5°	329.5	334.0	425.8	731.2	1092.4	2029.3	3188.3	3339.5	3287.1	2691.6
65°	236.6	237.4	283.6	446.5	663.2	1232.9	2868.4	3431.9	3415.7	2799.8
67.5°	199.2	198.6	217.9	296.6	451.9	617.6	2198.4	3301.3	3369.8	2868.4
70°	170.8	171.7	194.3	217.3	339.7	349.6	1093.0	2874.4	3020.5	2886.5
72.5°	127.2	130.0	151.0	198.0	256.4	240.5	377.4	2131.3	2395.6	2719.7
75°	89.8	91.2	106.2	166.6	191.2	175.1	192.6	1101.8	1440.6	2085.1
77.5°	69.1	71.7	80.5	116.4	188.4	123.0	117.9	381.3	585.9	1259.5
80°	37.4	41.9	58.1	84.1	132.3	87.0	58.4	151.8	198.6	589.0
82.5°	19.3	21.5	40.5	60.6	75.4	75.9	28.9	63.2	81.9	181.9
85°	7.6	9.3	27.2	33.4	38.8	37.4	13.0	25.5	29.5	50.4
87.5°	1.7	2.8	9.9	7.6	7.4	7.9	3.1	5.9	5.7	5.9
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°
508.2	0°	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2
511.6	2.5°	511.4	510.2	507.1	503.7	499.7	497.5	496.1	495.8	493.8	492.4
523.0	5°	519.9	518.7	512.8	505.7	498.0	492.1	486.4	481.3	474.0	472.5
539.4	7.5°	536.9	533.7	524.1	514.5	500.0	482.7	461.8	437.7	416.2	409.7
561.2	10°	557.8	553.6	541.4	524.4	492.4	445.3	394.6	347.6	310.2	299.7
587.0	12.5°	581.6	577.9	561.8	530.3	460.4	375.1	297.5	239.1	202.8	193.8
614.5	15°	609.9	604.6	582.2	521.3	403.1	285.0	204.3	169.7	156.7	155.0
645.9	17.5°	640.0	631.2	600.3	488.7	326.1	202.6	157.8	147.9	142.2	140.5
677.7	20°	667.5	656.1	611.1	439.4	243.6	157.8	141.4	134.9	129.8	127.8
709.4	22.5°	694.9	678.8	611.1	372.3	182.7	139.9	129.8	123.8	117.9	115.3
743.4	25°	723.5	702.0	600.3	297.5	147.0	128.3	118.7	112.2	107.1	104.0
775.7	27.5°	751.3	721.6	575.7	226.6	130.9	118.1	108.5	102.3	97.5	95.2
810.8	30°	777.7	740.8	541.1	172.0	120.4	108.2	99.2	93.8	89.0	86.7
856.4	32.5°	813.4	765.2	504.3	141.1	111.3	98.9	90.7	85.6	81.3	79.6
915.6	35°	862.9	801.2	472.5	138.5	103.7	91.2	83.0	78.2	73.9	72.5
992.1	37.5°	933.2	859.2	455.8	155.5	97.5	84.4	76.8	71.7	67.7	66.6
1089.3	40°	1019.9	938.0	464.9	172.5	93.2	78.5	71.1	66.0	62.6	61.2
1200.9	42.5°	1122.7	1035.2	515.0	185.6	90.4	73.4	65.7	60.1	57.8	57.2
1327.5	45°	1240.9	1142.0	591.8	199.4	85.8	68.6	60.3	56.1	54.4	54.1
1465.2	47.5°	1375.1	1259.3	680.8	216.7	81.3	64.0	56.1	53.3	51.8	51.3
1608.9	50°	1508.3	1377.4	772.3	226.4	77.6	59.8	52.7	50.4	49.3	49.0
1760.7	52.5°	1647.7	1498.9	846.2	217.3	74.5	56.4	49.9	48.2	47.0	46.7
1900.7	55°	1780.5	1597.2	859.0	184.4	68.3	53.0	46.7	45.9	44.5	44.5
2042.6	57.5°	1895.0	1646.5	768.9	135.4	62.0	47.9	43.6	42.8	41.6	41.4
2170.6	60°	2000.1	1632.4	593.5	91.2	55.2	42.8	39.7	39.1	38.0	36.5
2282.0	62.5°	2059.3	1570.0	406.0	59.5	48.4	37.4	35.1	34.8	32.3	29.5
2364.4	65°	2081.7	1442.0	253.3	43.3	40.5	32.0	30.3	29.7	26.1	22.9
2411.2	67.5°	2062.1	1231.2	127.8	34.3	32.0	26.6	24.9	24.9	22.4	19.5
2408.3	70°	1983.9	923.0	53.8	27.5	24.6	20.4	20.4	21.5	19.0	15.9
2283.4	72.5°	1814.2	621.0	28.6	21.0	18.4	14.4	16.7	17.6	15.0	11.9
1868.9	75°	1442.3	378.8	19.8	15.6	11.6	10.2	12.7	13.3	10.2	7.9
1281.4	77.5°	986.4	217.6	13.3	9.9	7.4	5.9	8.8	8.2	5.4	3.7
494.1	80°	433.2	90.7	7.6	4.5	2.8	2.3	3.1	2.3	1.7	1.1
67.7	82.5°	50.7	21.2	2.8	1.7	1.1	0.6	0.3	0.0	0.0	0.0
20.7	85°	10.5	2.5	1.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0
3.7	87.5°	2.0	0.6	0.3	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>
508.2
493.8
472.0
406.5
295.8
191.2
153.3
139.7
126.6
113.9
102.8
95.2
87.0
79.6
72.5
66.3
60.9
57.2
53.8
51.3
49.0
46.7
44.2
41.1
36.3
28.9
22.7
19.3
15.6
11.9
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1.1
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