

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: P938878

Luminaire Tested: **GALN-SB1A-950-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
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-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

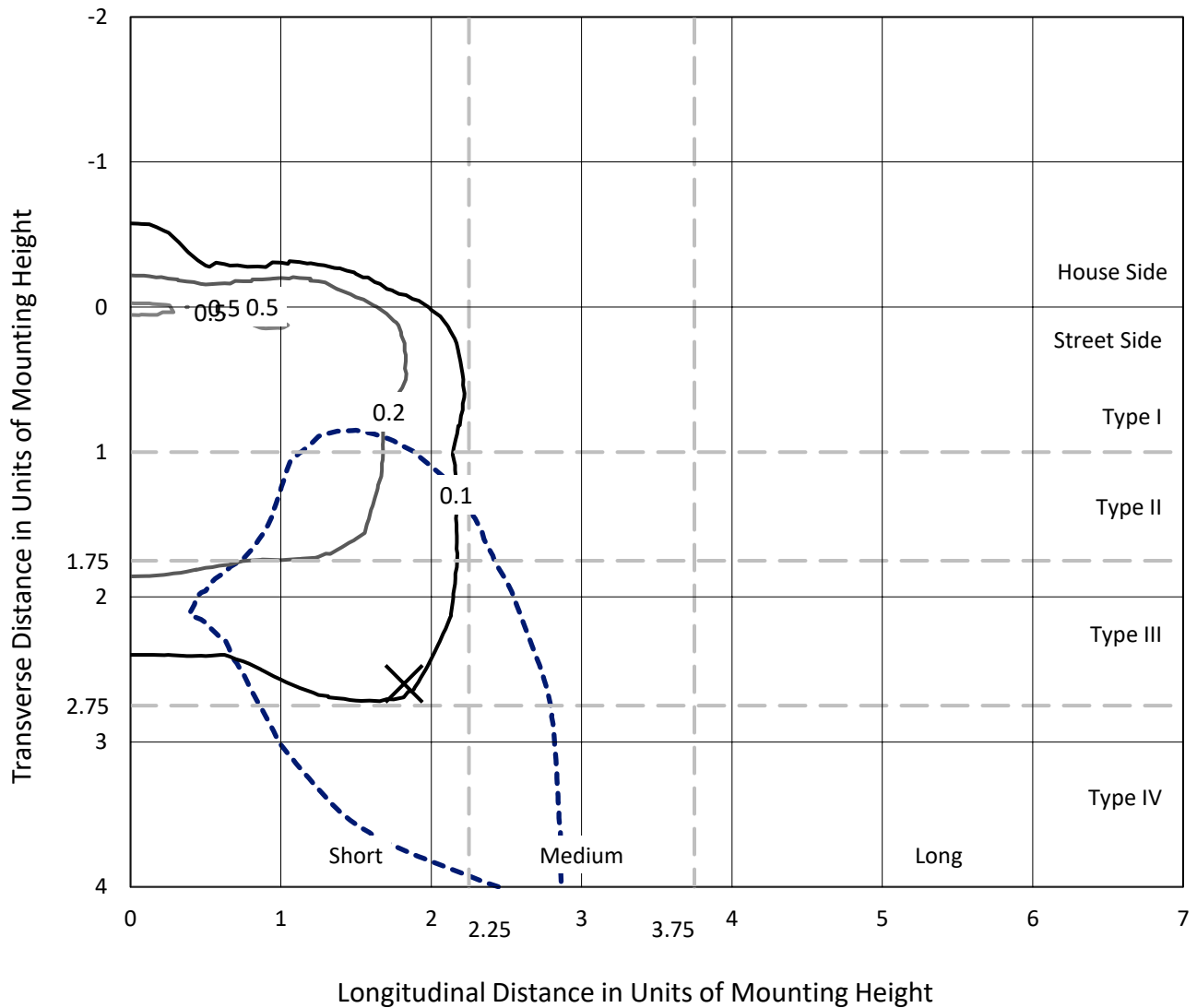
Lumens per Lamp: N/A  
Luminaire Lumens: 2363 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

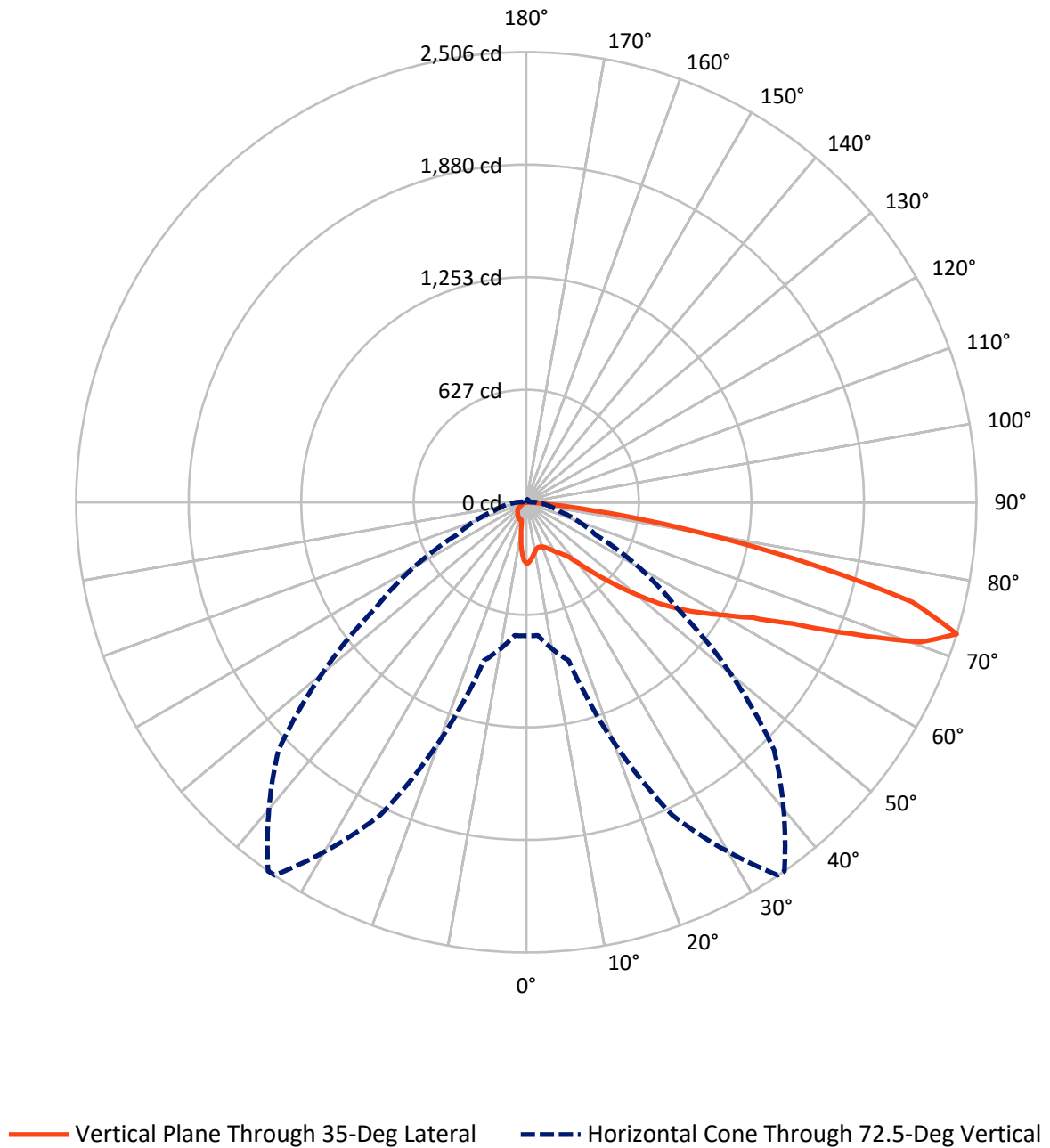
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	265.9	0.0	265.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	2097.1	0.0	2097.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	2363.0	0.0	2363.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.1	1.2
10°-20°	65.8	2.8
20°-30°	106.9	4.5
30°-40°	178.4	7.6
40°-50°	337.6	14.3
50°-60°	536.5	22.7
60°-70°	663.7	28.1
70°-80°	412.5	17.5
80°-90°	33.3	1.4
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°	2363.0	100.0
0°-180°	2363.0	100.0

**Coefficient of Utilization**



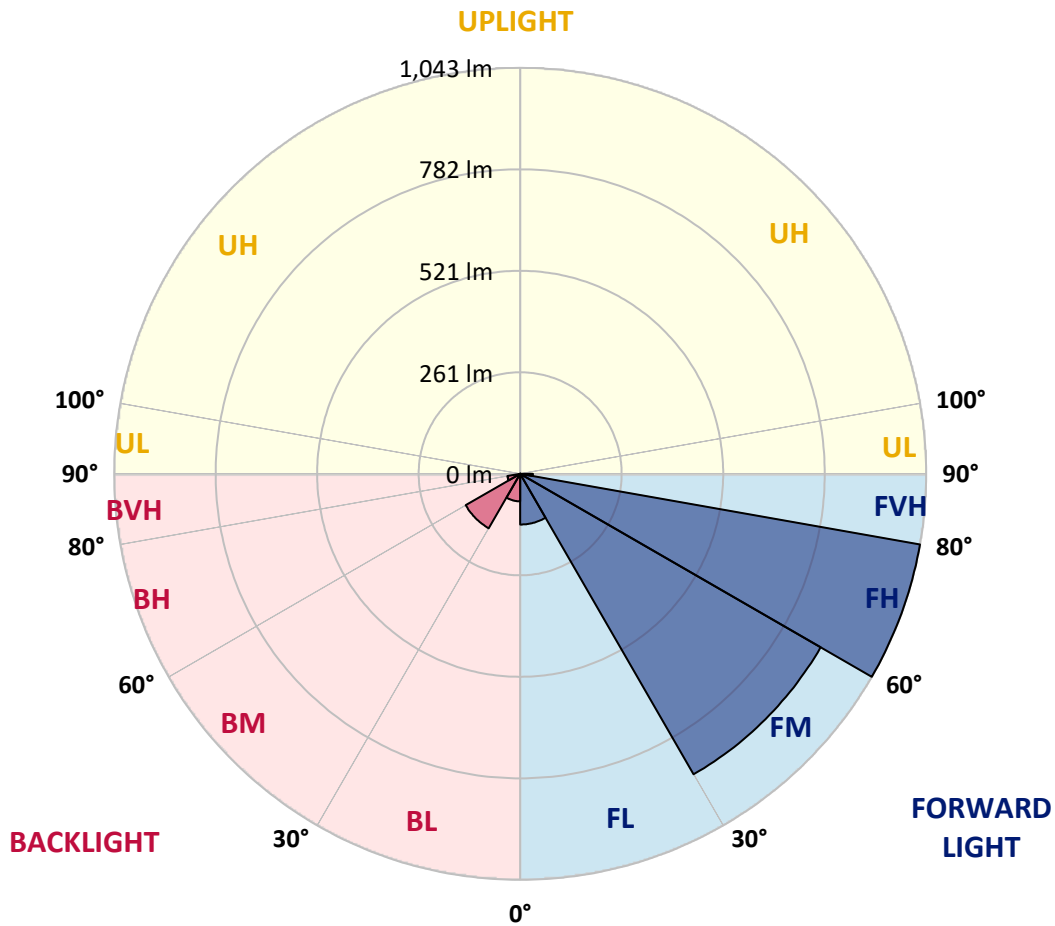
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.3	5.5			
FM	(30°-60°)	891.1	37.7			
FH	(60°-80°)	1042.8	44.1			G1/1800
FVH	(80°-90°)	32.9	1.4			G1/100
BL	(0°-30°)	70.7	3.0	B0/110		
BM	(30°-60°)	161.5	6.8	B0/220		
BH	(60°-80°)	33.4	1.4	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	34°	35°	45°	55°	65°	75°
0°	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5
2.5°	327.2	330.0	330.5	331.4	331.4	332.4	334.2	336.6	340.6	342.7
5°	301.6	303.7	306.3	308.4	312.4	312.9	319.6	326.2	335.4	342.3
7.5°	275.8	278.2	281.7	286.7	291.9	293.5	303.7	314.8	329.3	342.3
10°	257.6	257.8	260.9	265.9	274.3	276.2	288.6	304.4	322.6	340.2
12.5°	247.4	248.6	250.0	253.8	261.8	263.0	276.3	294.9	315.8	339.0
15°	247.4	248.3	249.2	251.1	257.5	258.5	270.3	288.8	312.4	339.5
17.5°	250.0	251.4	250.7	253.0	259.7	260.4	270.8	287.1	312.2	342.8
20°	256.3	257.3	255.9	257.3	264.0	265.4	276.2	290.4	315.1	348.5
22.5°	266.1	266.6	263.4	264.4	271.3	273.0	285.5	299.7	322.2	357.7
25°	278.6	279.6	274.6	275.8	282.4	284.5	298.8	313.7	333.5	370.4
27.5°	293.0	293.5	289.1	289.0	297.5	300.4	314.9	331.1	348.5	386.3
30°	309.4	311.0	306.8	306.1	316.9	319.3	333.6	352.3	370.7	410.2
32.5°	322.4	323.6	321.2	322.9	333.8	335.7	356.3	382.5	405.5	444.1
35°	341.1	341.8	336.2	339.4	351.8	356.7	387.3	424.7	449.3	486.7
37.5°	408.8	408.8	385.2	369.8	381.8	386.1	429.7	477.9	503.3	543.8
40°	502.5	500.9	466.4	434.9	433.4	441.9	490.2	544.9	573.1	612.4
42.5°	602.4	599.9	553.0	521.9	516.7	519.6	559.9	627.5	656.2	696.0
45°	691.0	690.3	647.4	605.5	596.1	605.5	647.0	724.1	744.7	786.6
47.5°	765.3	765.3	734.0	706.6	701.8	707.3	764.9	831.3	829.4	883.0
50°	850.8	850.1	820.4	808.6	813.6	821.4	900.7	944.2	917.0	977.7
52.5°	910.7	914.9	904.7	902.8	928.4	941.9	1038.5	1054.6	995.4	1067.6
55°	958.2	963.0	974.8	988.1	1037.5	1055.1	1172.0	1159.4	1061.0	1145.5
57.5°	1025.4	1018.4	1036.6	1062.9	1142.7	1164.0	1301.3	1258.2	1113.8	1208.7
60°	1106.9	1107.9	1111.1	1144.3	1247.8	1275.2	1428.8	1351.7	1147.8	1247.5
62.5°	1204.9	1206.5	1212.9	1263.9	1389.0	1414.8	1564.5	1428.3	1163.4	1236.6
65°	1198.2	1204.7	1276.2	1450.9	1603.5	1628.9	1723.0	1481.9	1139.8	1136.9
67.5°	1091.5	1102.2	1221.9	1674.3	1926.9	1955.3	1914.4	1492.5	1038.2	884.1
70°	951.6	955.4	1099.3	1875.1	2301.4	2330.2	2085.9	1376.3	787.8	493.1
72.5°	743.1	744.0	912.8	1921.7	2504.7	2506.3	1951.3	1021.7	423.7	189.4
75°	530.9	525.7	611.4	1558.5	2203.6	2221.3	1462.9	479.3	161.9	89.5
77.5°	284.6	290.4	345.9	924.2	1522.3	1552.4	798.2	138.2	82.4	60.9
80°	88.0	92.8	141.8	423.2	862.3	880.4	295.9	61.5	57.5	43.5
82.5°	27.7	28.7	66.1	177.8	357.9	366.2	85.7	34.8	39.3	28.7
85°	8.0	8.1	29.4	66.3	88.5	90.2	24.1	13.5	22.5	17.8
87.5°	0.9	2.8	11.1	11.1	7.8	7.6	2.6	2.9	6.4	2.3
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°
342.5	0°	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5
344.0	2.5°	343.2	343.3	341.1	337.3	333.1	329.7	325.3	321.9	319.4	318.8
347.2	5°	345.6	344.4	338.0	326.4	312.5	300.6	287.2	276.7	269.8	266.8
350.4	7.5°	349.2	345.8	331.7	308.9	282.4	258.8	235.0	216.4	204.7	198.8
353.6	10°	352.3	345.4	321.4	283.6	243.1	207.4	175.2	152.9	140.4	134.5
357.2	12.5°	355.3	345.2	307.8	253.7	198.8	155.1	125.2	114.1	110.6	109.4
363.1	15°	360.8	345.8	290.9	219.4	154.6	117.2	106.3	106.1	106.8	106.5
372.1	17.5°	368.4	346.3	271.7	183.0	119.3	103.4	102.8	104.4	105.4	104.9
383.3	20°	378.3	348.4	251.2	147.0	102.5	99.9	101.1	102.5	103.4	102.5
398.4	22.5°	392.2	352.0	228.9	118.1	97.1	97.8	98.9	100.4	101.3	100.1
417.6	25°	409.1	357.7	206.9	102.7	94.5	95.4	97.0	98.7	99.7	98.5
441.9	27.5°	431.1	366.9	186.6	99.2	91.9	92.5	94.7	97.3	98.7	97.1
476.3	30°	463.0	382.0	169.2	100.8	90.4	89.2	92.3	95.9	97.5	96.1
523.2	32.5°	505.2	403.3	158.4	103.2	89.7	85.4	88.3	93.0	95.6	94.7
584.5	35°	560.6	435.6	154.3	106.0	89.2	81.4	83.5	88.5	93.0	93.8
661.8	37.5°	627.8	480.6	155.5	107.2	87.6	78.1	79.1	83.5	89.3	92.1
748.7	40°	704.2	533.1	162.4	106.0	85.9	75.3	75.5	78.8	84.0	88.1
842.2	42.5°	783.0	594.4	175.2	101.5	84.3	72.9	72.4	74.6	78.1	81.0
935.5	45°	857.9	657.4	187.9	95.2	82.4	70.5	69.3	70.1	70.8	72.0
1026.4	47.5°	923.4	701.8	184.2	89.5	79.8	67.7	65.6	65.3	63.2	63.0
1107.6	50°	968.6	711.4	163.6	83.8	76.0	64.6	61.3	59.2	55.6	53.8
1168.4	52.5°	982.9	673.2	133.7	78.1	69.8	60.4	55.8	52.5	48.0	46.4
1203.3	55°	963.9	598.2	106.8	71.2	61.1	54.9	49.7	45.4	41.7	39.8
1207.2	57.5°	917.3	502.8	84.5	63.0	51.9	48.7	43.5	39.1	36.0	34.1
1164.9	60°	840.1	399.3	66.8	53.3	44.3	41.9	36.5	33.8	31.0	28.7
1055.8	62.5°	722.9	285.0	52.5	42.2	37.1	34.3	31.2	29.1	25.8	22.7
859.7	65°	564.1	174.4	40.5	31.0	29.8	28.4	26.5	24.6	20.6	17.5
560.8	67.5°	355.8	82.6	28.9	23.4	23.5	22.9	22.0	20.4	17.5	14.7
251.2	70°	156.7	40.0	19.0	17.8	17.5	17.5	18.2	17.7	14.9	12.3
87.3	72.5°	53.3	21.5	14.2	13.5	12.6	12.5	15.2	14.7	11.9	9.5
43.5	75°	27.9	14.4	10.4	9.7	7.6	9.2	12.1	11.4	8.5	6.2
28.7	77.5°	18.2	10.2	7.1	6.2	4.3	6.1	9.0	8.0	5.0	3.1
18.9	80°	11.4	6.8	4.2	2.9	2.1	3.3	4.8	3.5	1.9	0.7
11.1	82.5°	6.1	3.5	1.6	1.0	0.9	1.0	1.2	0.9	0.3	0.0
5.7	85°	2.4	1.2	0.5	0.3	0.2	0.0	0.3	0.2	0.0	0.0
1.0	87.5°	0.9	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>
342.5
320.0
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