

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: P939468

Luminaire Tested: **GALN-SB2A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939468  
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-SB2A-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

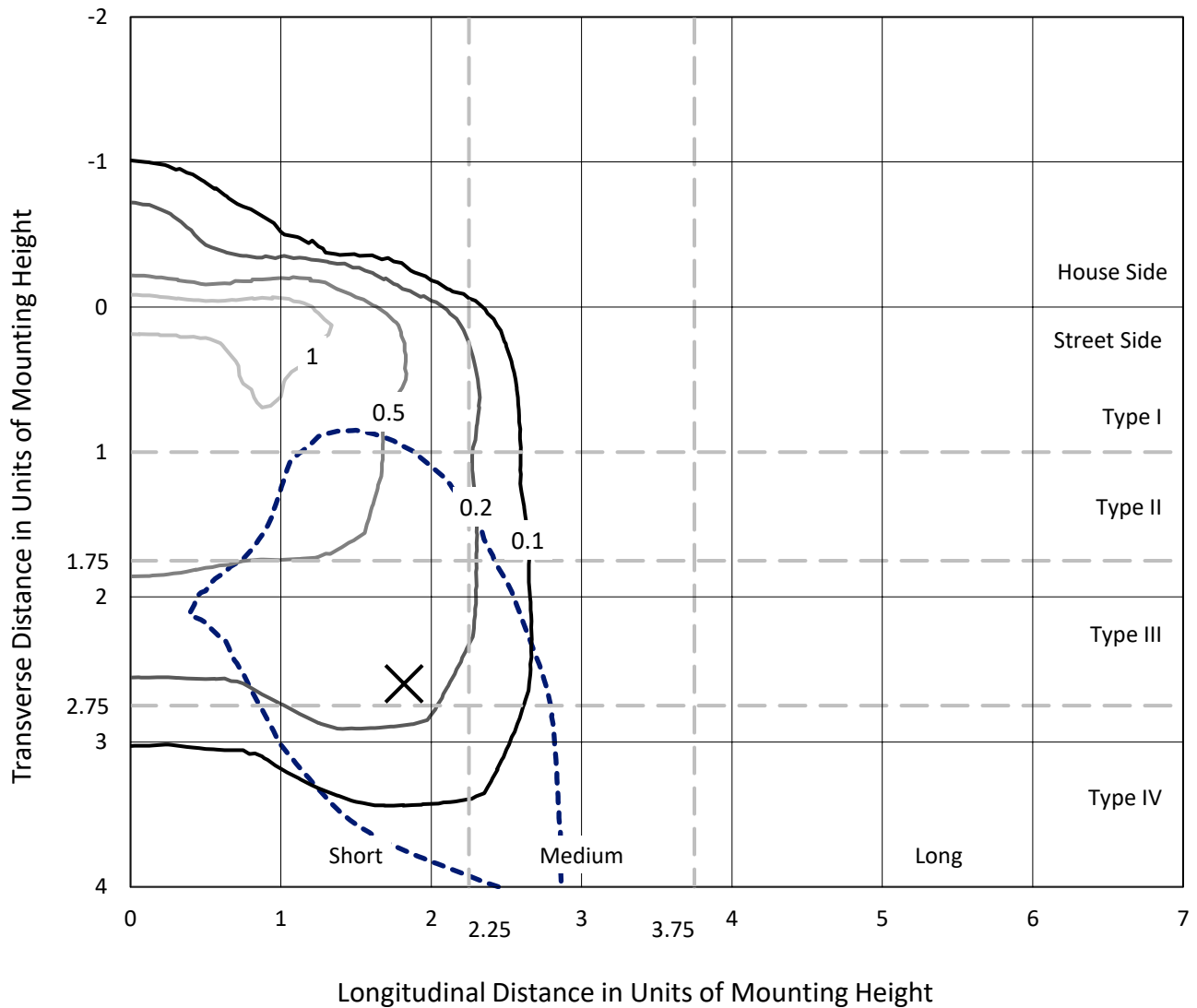
Lumens per Lamp: N/A  
Luminaire Lumens: 5906 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

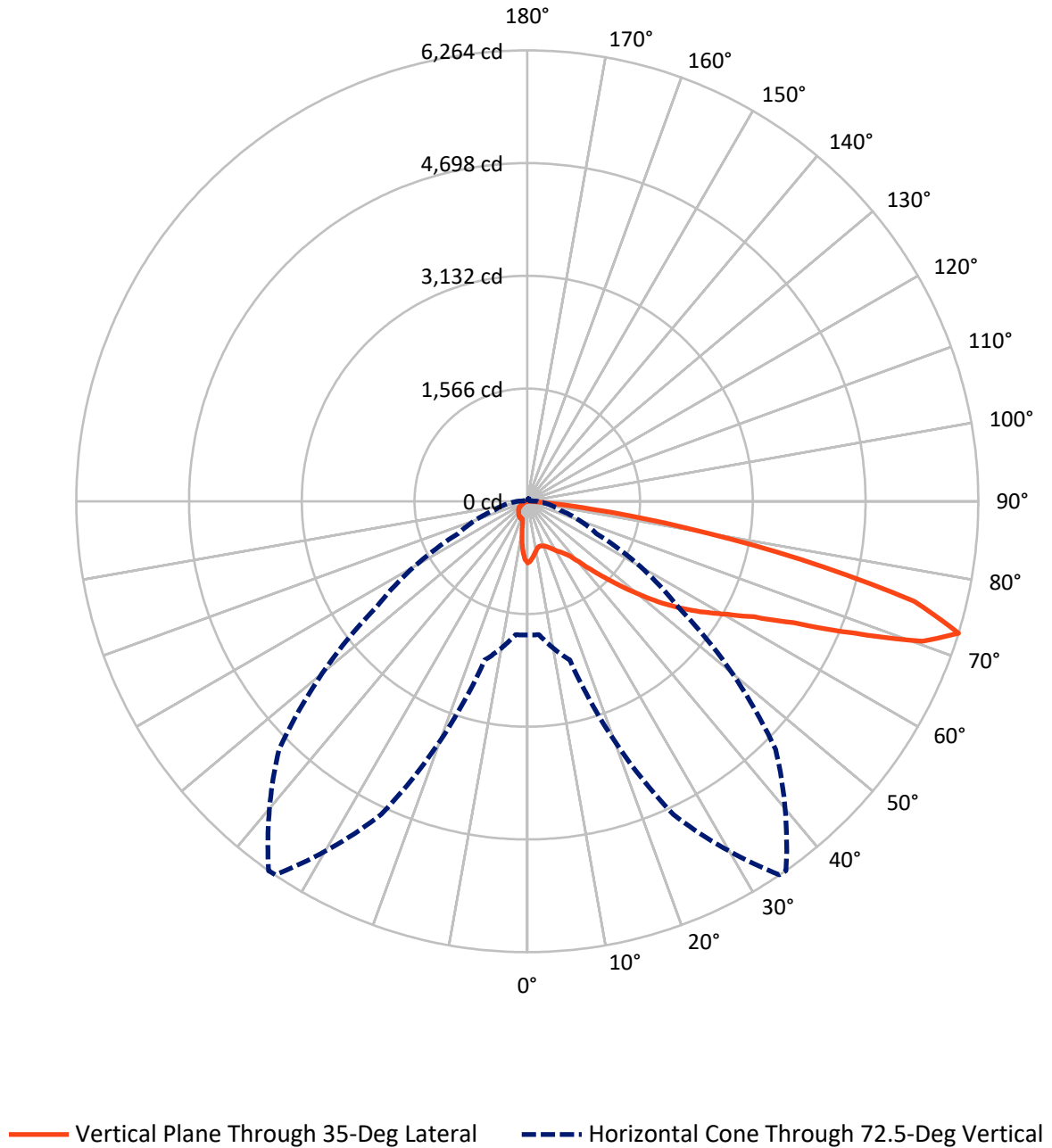
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type 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	664.7	0.0	664.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	5241.3	0.0	5241.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	5906.0	0.0	5906.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	1.2
10°-20°	164.5	2.8
20°-30°	267.3	4.5
30°-40°	446.0	7.6
40°-50°	843.8	14.3
50°-60°	1340.8	22.7
60°-70°	1658.7	28.1
70°-80°	1031.1	17.5
80°-90°	83.3	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°	5906.0	100.0
0°-180°	5906.0	100.0

**Coefficient of Utilization**



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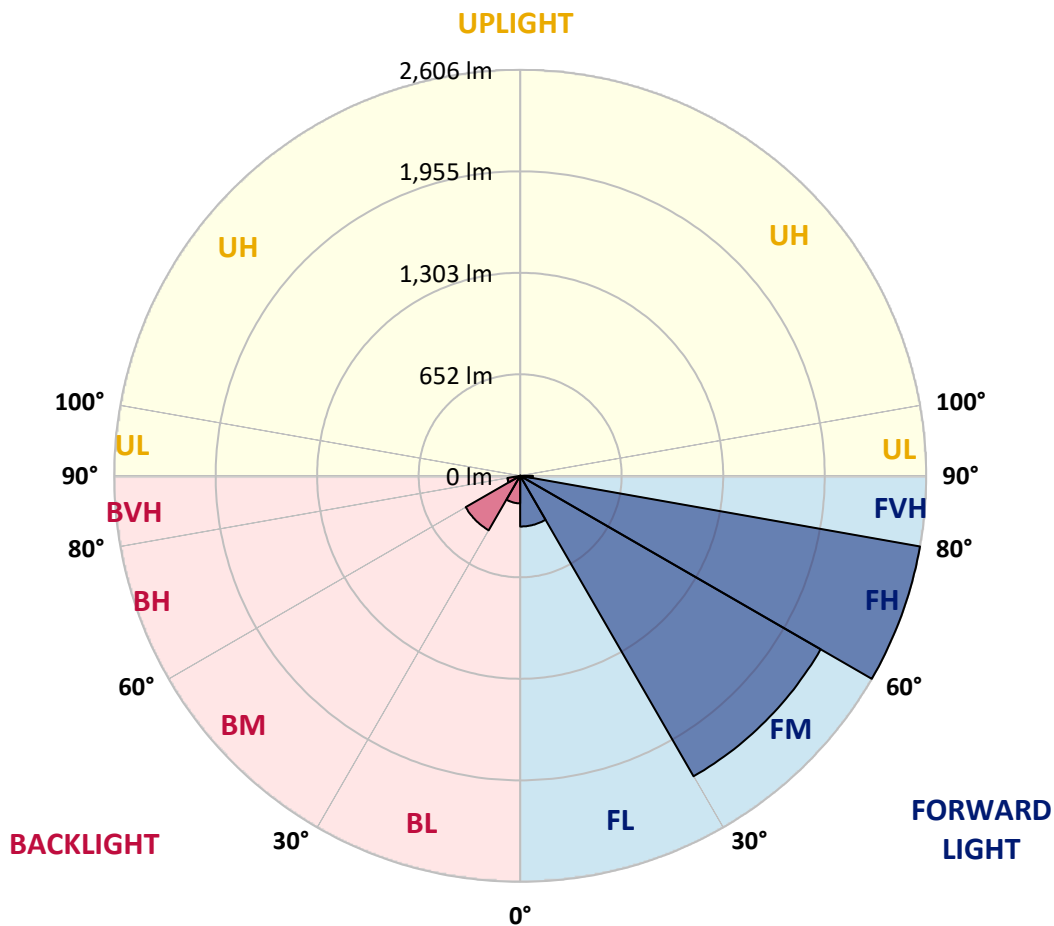
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.6	5.5			
FM (30°-60°)	2227.2	37.7			
FH (60°-80°)	2606.4	44.1			G2/5000
FVH (80°-90°)	82.2	1.4			G1/100
BL (0°-30°)	176.6	3.0	B1/500		
BM (30°-60°)	403.5	6.8	B1/1000		
BH (60°-80°)	83.4	1.4	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	817.9	824.8	826.1	828.3	828.3	830.9	835.2	841.3	851.2	856.4
5°	753.8	759.0	765.5	770.7	780.7	782.0	798.9	815.3	838.2	855.5
7.5°	689.4	695.4	704.1	716.6	729.6	733.5	759.0	786.7	823.1	855.5
10°	643.9	644.4	652.2	664.7	685.5	690.2	721.4	760.8	806.2	850.4
12.5°	618.4	621.4	624.9	634.4	654.3	657.3	690.7	737.0	789.3	847.3
15°	618.4	620.6	622.7	627.5	643.5	646.1	675.5	721.8	780.7	848.6
17.5°	624.9	628.4	626.6	632.2	649.1	650.9	676.8	717.5	780.2	856.8
20°	640.5	643.1	639.6	643.1	659.9	663.4	690.2	725.7	787.6	871.1
22.5°	665.1	666.4	658.2	660.8	678.1	682.4	713.6	749.1	805.3	894.1
25°	696.3	698.9	686.3	689.4	705.8	711.0	746.9	784.1	833.5	925.6
27.5°	732.2	733.5	722.7	722.3	743.5	750.8	787.2	827.4	871.1	965.5
30°	773.3	777.2	766.8	765.1	791.9	798.0	833.9	880.6	926.5	1025.2
32.5°	805.8	808.8	802.7	807.1	834.3	839.1	890.6	955.9	1013.5	1110.0
35°	852.5	854.2	840.4	848.2	879.3	891.5	968.1	1061.5	1123.0	1216.5
37.5°	1021.7	1021.7	962.9	924.4	954.2	965.0	1074.1	1194.4	1258.0	1359.3
40°	1255.8	1251.9	1165.8	1087.1	1083.2	1104.4	1225.1	1361.9	1432.4	1530.6
42.5°	1505.5	1499.5	1382.2	1304.3	1291.3	1298.7	1399.5	1568.3	1640.1	1739.7
45°	1727.1	1725.4	1618.0	1513.3	1490.0	1513.3	1617.2	1809.8	1861.3	1966.0
47.5°	1912.8	1912.8	1834.4	1766.0	1753.9	1767.8	1911.9	2077.6	2072.9	2207.0
50°	2126.5	2124.8	2050.4	2020.9	2033.5	2053.0	2251.2	2359.8	2291.8	2443.7
52.5°	2276.3	2286.6	2261.1	2256.4	2320.4	2354.2	2595.6	2635.9	2487.9	2668.3
55°	2394.8	2406.9	2436.4	2469.7	2593.0	2637.2	2929.3	2897.7	2651.9	2863.1
57.5°	2562.7	2545.4	2590.9	2656.6	2856.1	2909.4	3252.5	3144.8	2783.9	3021.0
60°	2766.6	2769.2	2776.9	2860.0	3118.8	3187.2	3571.0	3378.5	2868.7	3118.0
62.5°	3011.5	3015.4	3031.4	3159.1	3471.5	3536.0	3910.3	3569.7	2907.6	3090.7
65°	2994.6	3011.1	3189.8	3626.4	4007.7	4071.3	4306.3	3703.9	2848.8	2841.4
67.5°	2728.0	2754.9	3053.9	4184.7	4816.1	4887.0	4784.9	3730.3	2594.8	2209.6
70°	2378.4	2387.9	2747.5	4686.7	5752.1	5823.9	5213.3	3439.9	1969.0	1232.5
72.5°	1857.4	1859.5	2281.5	4803.1	6260.1	6264.0	4877.1	2553.7	1058.9	473.4
75°	1326.8	1313.8	1528.0	3895.2	5507.6	5551.7	3656.3	1197.8	404.6	223.7
77.5°	711.4	725.7	864.6	2310.0	3804.7	3880.0	1995.0	345.3	206.0	152.3
80°	219.8	232.0	354.4	1057.6	2155.1	2200.5	739.6	153.6	143.7	108.6
82.5°	69.2	71.8	165.3	444.4	894.5	915.3	214.2	87.0	98.2	71.8
85°	19.9	20.3	73.6	165.7	221.1	225.5	60.2	33.8	56.3	44.6
87.5°	2.2	6.9	27.7	27.7	19.5	19.0	6.5	7.4	16.0	5.6
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°
856.0	0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
859.9	2.5°	857.7	858.1	852.5	843.0	832.6	824.0	813.1	804.5	798.4	796.7
867.7	5°	863.8	860.7	844.7	815.7	781.1	751.3	717.9	691.5	674.2	666.9
875.9	7.5°	872.9	864.2	829.1	772.0	705.8	647.0	587.2	540.9	511.5	496.8
883.7	10°	880.6	863.3	803.2	708.8	607.6	518.4	437.9	382.1	351.0	336.2
892.8	12.5°	888.0	862.9	769.4	634.0	496.8	387.7	312.9	285.2	276.5	273.5
907.5	15°	901.8	864.2	727.0	548.3	386.4	293.0	265.7	265.3	267.0	266.1
930.0	17.5°	920.9	865.5	679.0	457.4	298.2	258.4	257.1	260.9	263.5	262.2
958.1	20°	945.6	870.7	627.9	367.4	256.2	249.7	252.7	256.2	258.4	256.2
995.8	22.5°	980.2	879.8	572.1	295.1	242.8	244.5	247.1	251.0	253.2	250.1
1043.8	25°	1022.6	894.1	517.1	256.6	236.3	238.4	242.3	246.7	249.3	246.2
1104.4	27.5°	1077.5	917.0	466.5	248.0	229.8	231.1	236.7	243.2	246.7	242.8
1190.5	30°	1157.2	954.6	422.8	251.9	225.9	222.9	230.7	239.7	243.6	240.2
1307.8	32.5°	1262.8	1007.9	396.0	257.9	224.2	213.3	220.7	232.4	238.9	236.7
1461.0	35°	1401.2	1088.8	385.6	264.8	222.9	203.4	208.6	221.1	232.4	234.5
1654.0	37.5°	1569.1	1201.3	388.6	267.9	219.0	195.2	197.8	208.6	223.3	230.2
1871.2	40°	1760.0	1332.4	405.9	264.8	214.6	188.2	188.7	196.9	209.9	220.3
2104.9	42.5°	1956.9	1485.6	437.9	253.6	210.7	182.2	180.9	186.5	195.2	202.5
2338.1	45°	2144.3	1643.1	469.5	238.0	206.0	176.1	173.1	175.3	177.0	180.0
2565.3	47.5°	2307.9	1753.9	460.4	223.7	199.5	169.2	164.0	163.1	158.0	157.5
2768.3	50°	2420.8	1778.2	408.9	209.5	190.0	161.4	153.2	148.0	138.9	134.6
2920.2	52.5°	2456.7	1682.5	334.1	195.2	174.4	151.0	139.3	131.1	119.9	116.0
3007.6	55°	2409.1	1495.1	267.0	177.9	152.8	137.2	124.2	113.4	104.3	99.5
3017.1	57.5°	2292.7	1256.7	211.2	157.5	129.8	121.6	108.6	97.8	90.0	85.3
2911.5	60°	2099.7	997.9	167.0	133.3	110.8	104.7	91.3	84.4	77.5	71.8
2638.9	62.5°	1806.7	712.3	131.1	105.6	92.6	85.7	77.9	72.7	64.5	56.7
2148.6	65°	1409.9	435.8	101.3	77.5	74.4	71.0	66.2	61.5	51.5	43.7
1401.7	67.5°	889.3	206.4	72.3	58.4	58.9	57.1	55.0	51.1	43.7	36.8
627.9	70°	391.6	100.0	47.6	44.6	43.7	43.7	45.4	44.1	37.2	30.7
218.1	72.5°	133.3	53.7	35.5	33.8	31.6	31.2	38.1	36.8	29.9	23.8
108.6	75°	69.7	35.9	26.0	24.2	19.0	22.9	30.3	28.6	21.2	15.6
71.8	77.5°	45.4	25.5	17.7	15.6	10.8	15.1	22.5	19.9	12.5	7.8
47.2	80°	28.6	16.9	10.4	7.4	5.2	8.2	12.1	8.7	4.8	1.7
27.7	82.5°	15.1	8.7	3.9	2.6	2.2	2.6	3.0	2.2	0.9	0.0
14.3	85°	6.1	3.0	1.3	0.9	0.4	0.0	0.9	0.4	0.0	0.0
2.6	87.5°	2.2	0.4	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>
856.0
799.7
669.5
499.0
336.7
272.6
265.7
261.8
255.8
249.7
245.8
242.8
239.7
236.7
234.5
232.0
223.7
205.6
181.8
157.1
135.0
115.5
99.5
84.4
70.5
55.4
42.4
35.9
29.4
22.5
14.3
6.9
1.3
0.0
0.0
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0.0

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