

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: P940146

Luminaire Tested: **GALN-SB3A-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

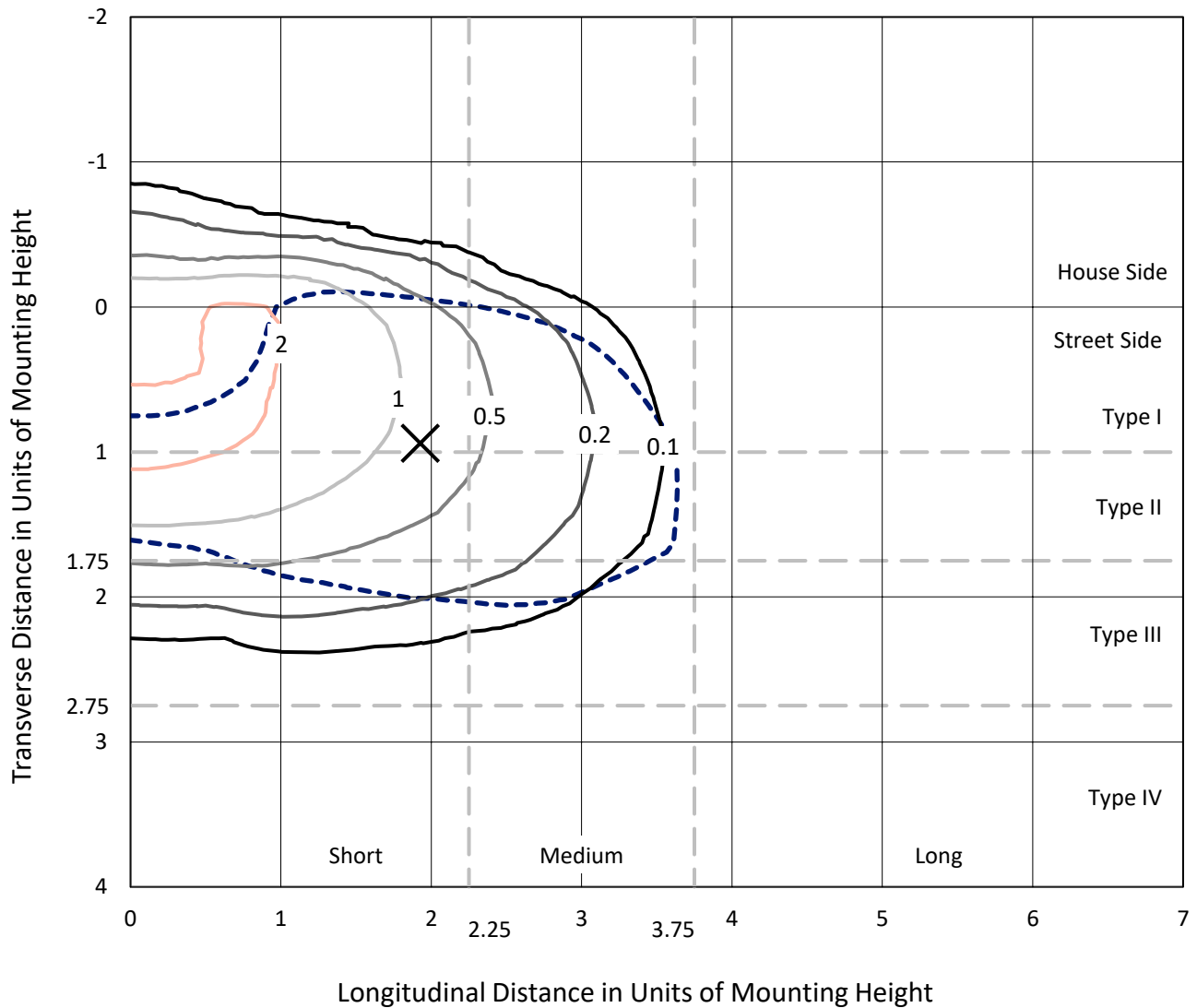
Lumens per Lamp: N/A  
Luminaire Lumens: 9179 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

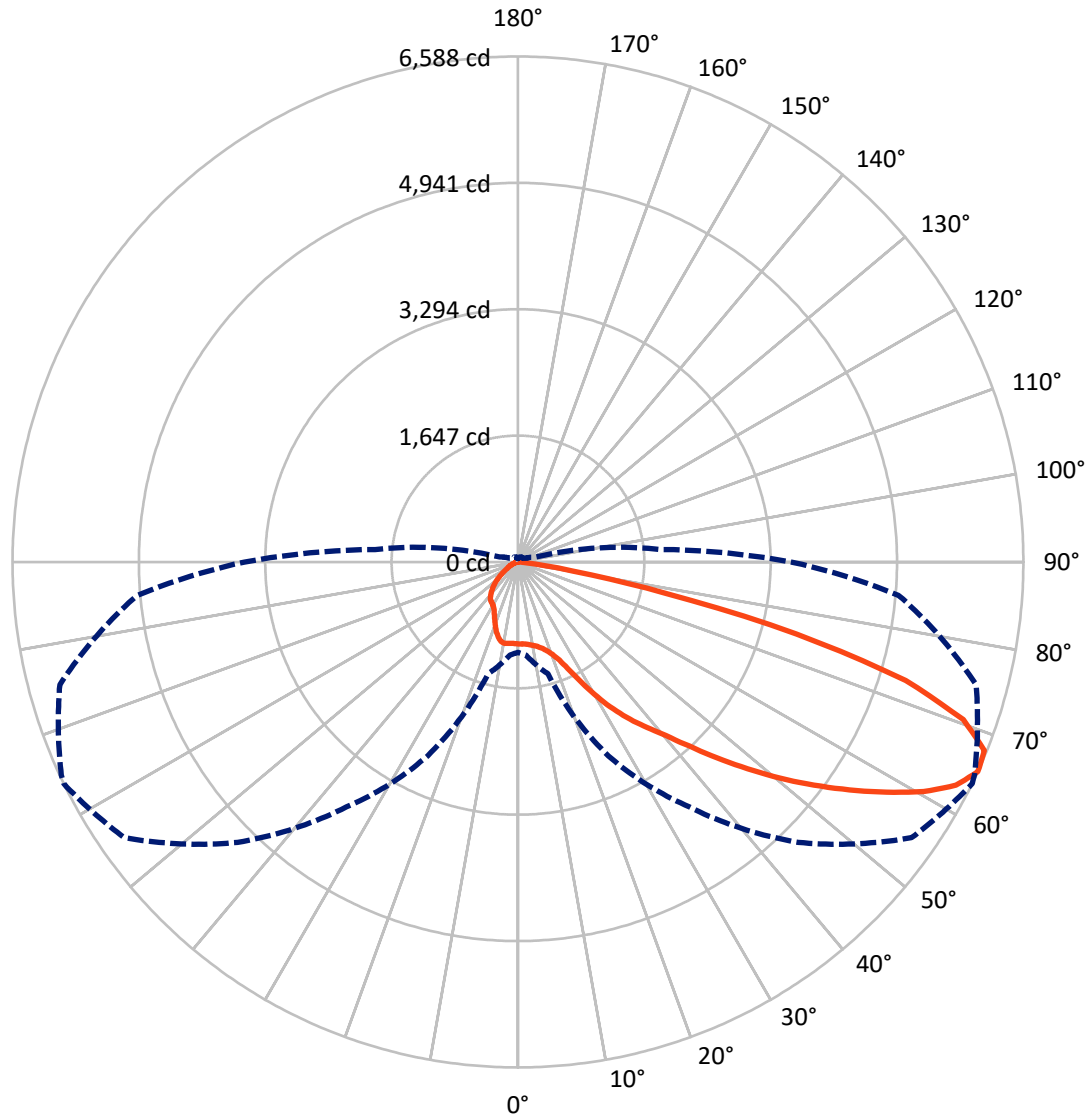
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1227.5	0.0	1227.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	7951.5	0.0	7951.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	9179.0	0.0	9179.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	1.1
10°-20°	267.2	2.9
20°-30°	506.2	5.5
30°-40°	1024.4	11.2
40°-50°	1745.0	19.0
50°-60°	2373.1	25.9
60°-70°	2228.5	24.3
70°-80°	892.8	9.7
80°-90°	43.3	0.5
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°	9179.0	100.0
0°-180°	9179.0	100.0

**Coefficient of Utilization**



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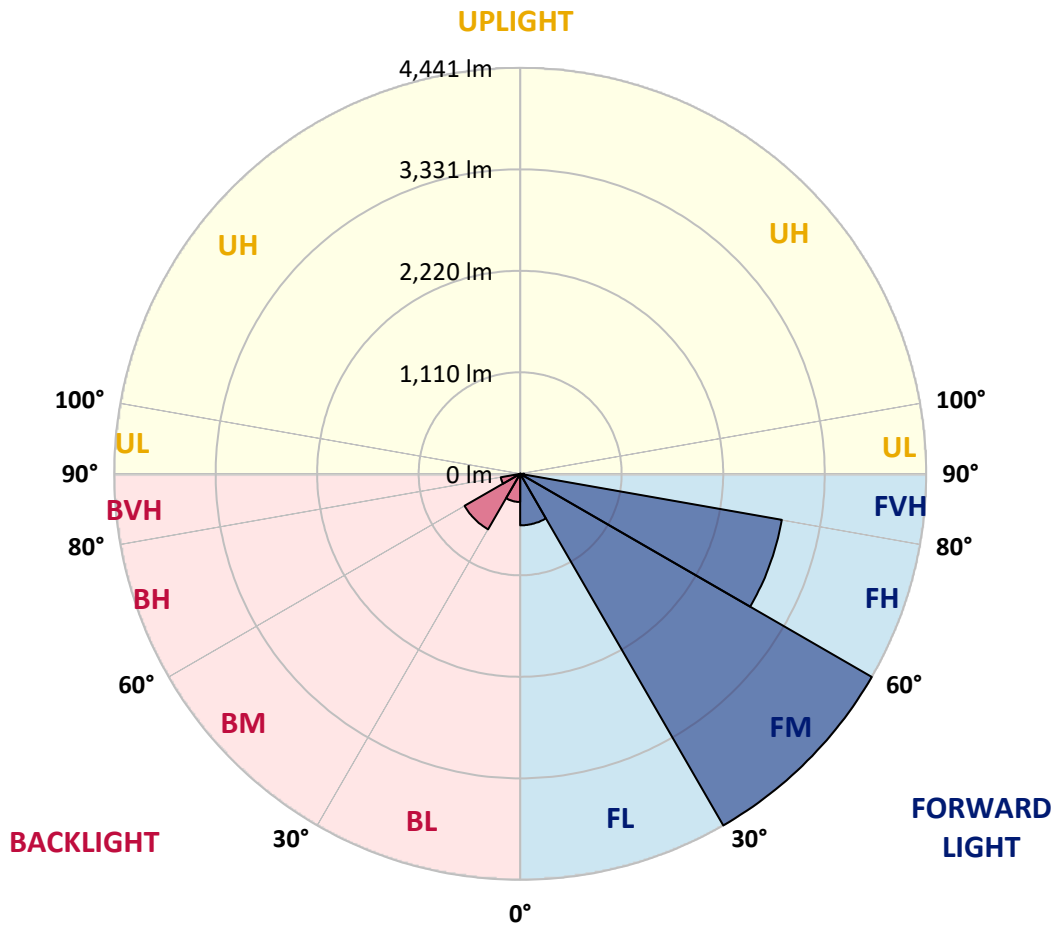
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.7	6.1			
FM (30°-60°)	4440.8	48.4			
FH (60°-80°)	2905.9	31.7			G2/5000
FVH (80°-90°)	41.1	0.4			G1/100
BL (0°-30°)	308.2	3.4	B1/500		
BM (30°-60°)	701.8	7.6	B1/1000		
BH (60°-80°)	215.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6
2.5°	1063.9	1071.3	1069.5	1067.6	1067.0	1068.2	1068.8	1068.2	1068.2	1068.2
5°	1043.6	1049.8	1049.8	1054.1	1060.2	1067.6	1073.2	1074.4	1075.6	1077.5
7.5°	1004.8	1009.8	1013.5	1027.6	1043.0	1062.7	1079.3	1087.9	1089.1	1095.9
10°	978.4	984.5	990.7	1005.5	1027.6	1057.2	1085.5	1106.4	1109.5	1125.5
12.5°	977.2	983.3	991.3	1007.3	1033.2	1064.5	1099.0	1129.1	1134.7	1158.1
15°	990.1	997.5	1004.8	1024.5	1052.2	1090.4	1127.3	1164.8	1170.4	1203.6
17.5°	1016.5	1026.4	1031.9	1051.6	1081.2	1123.6	1172.2	1215.3	1220.2	1259.0
20°	1068.8	1080.5	1082.4	1098.4	1127.3	1172.8	1230.7	1284.2	1290.4	1334.7
22.5°	1177.1	1193.8	1179.0	1187.0	1212.8	1258.4	1321.1	1388.8	1397.4	1447.9
25°	1367.9	1391.3	1353.1	1339.6	1350.7	1398.1	1476.8	1562.3	1572.2	1612.8
27.5°	1742.6	1712.5	1654.6	1598.0	1564.8	1591.9	1680.5	1786.3	1798.6	1838.0
30°	2154.3	2127.8	2049.7	1924.2	1845.4	1841.1	1922.9	2041.1	2055.2	2092.8
32.5°	2566.6	2541.3	2456.4	2302.0	2165.4	2097.7	2154.3	2285.4	2292.8	2316.8
35°	2972.1	2946.2	2861.3	2703.2	2535.2	2381.4	2370.3	2518.0	2520.4	2545.7
37.5°	3380.1	3358.5	3268.1	3113.0	2947.5	2735.2	2632.4	2738.3	2741.3	2765.9
40°	3671.1	3680.3	3618.2	3498.2	3356.1	3124.1	2926.6	2972.7	2954.2	2995.5
42.5°	3920.9	3939.4	3885.2	3824.9	3742.5	3538.2	3290.8	3282.8	3253.3	3275.4
45°	4136.9	4152.3	4103.7	4089.5	4087.7	3944.3	3689.0	3641.0	3599.7	3595.4
47.5°	4216.3	4245.8	4266.8	4314.1	4406.4	4346.1	4100.6	4026.2	3980.0	3946.2
50°	4246.5	4277.8	4349.2	4487.1	4705.5	4731.3	4510.4	4426.7	4370.1	4308.6
52.5°	4205.8	4261.8	4357.8	4589.8	4906.7	5040.2	4903.6	4830.4	4765.8	4665.5
55°	3966.5	4022.5	4218.8	4588.6	5007.0	5256.8	5275.3	5242.7	5170.1	5011.9
57.5°	3461.9	3545.0	3855.7	4432.3	5005.2	5443.3	5639.6	5663.0	5581.7	5355.3
60°	2762.9	2875.5	3254.5	4085.9	4850.7	5544.2	5958.9	6075.9	5989.7	5693.7
62.5°	1927.9	2058.3	2417.1	3543.1	4497.5	5471.6	6192.2	6408.1	6342.9	5996.5
65°	1175.9	1217.8	1507.0	2788.1	3896.9	5167.6	6264.2	6587.8	6566.3	6181.7
67.5°	783.3	818.4	901.5	1911.9	3025.0	4560.3	6091.9	6556.4	6562.6	6151.5
70°	472.0	502.1	556.3	1111.9	1960.5	3609.6	5558.4	6156.5	6192.2	5748.5
72.5°	194.4	214.8	264.0	504.0	1015.3	2290.9	4426.1	5285.8	5368.8	4833.5
75°	110.1	120.6	155.1	252.9	440.6	1067.6	2681.0	3752.3	3874.8	3331.4
77.5°	73.2	78.1	100.3	163.7	248.0	364.3	1145.8	1954.9	2188.8	1819.6
80°	49.2	53.5	68.9	109.5	161.2	156.3	364.9	724.3	891.0	625.2
82.5°	33.2	33.8	49.2	72.0	102.1	75.7	107.7	225.2	283.1	180.9
85°	19.1	18.5	36.3	41.8	45.5	31.4	32.6	67.7	88.6	76.3
87.5°	2.5	3.7	14.2	11.1	6.2	6.8	6.8	11.7	17.2	18.5
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°
1067.6	0°	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6	1067.6
1068.8	2.5°	1068.8	1068.2	1066.4	1064.5	1060.2	1057.8	1059.0	1057.8	1057.2	1057.8
1076.8	5°	1076.8	1075.0	1070.1	1063.9	1055.3	1044.8	1038.1	1028.2	1019.0	1013.5
1098.4	7.5°	1098.4	1096.5	1089.8	1072.5	1044.8	1001.2	961.2	926.1	899.6	884.2
1132.8	10°	1132.8	1129.8	1119.3	1081.2	1008.5	913.2	833.8	767.9	724.9	704.6
1173.5	12.5°	1173.5	1169.8	1151.3	1073.2	939.6	790.7	681.2	608.0	568.0	550.1
1220.2	15°	1221.4	1216.5	1180.2	1035.0	839.3	655.3	555.0	500.3	474.4	458.4
1279.9	17.5°	1281.1	1272.5	1201.8	977.8	730.4	552.0	477.5	436.3	413.5	398.1
1358.1	20°	1358.7	1344.5	1219.0	909.5	630.1	486.7	425.2	390.7	373.5	360.0
1468.8	22.5°	1467.0	1446.7	1239.9	835.6	559.3	441.8	386.4	361.2	347.1	331.7
1623.3	25°	1601.1	1577.1	1265.8	767.3	510.7	403.0	358.1	337.2	320.6	302.7
1825.7	27.5°	1788.8	1745.7	1296.5	711.3	468.9	369.8	332.3	308.9	289.8	275.1
2055.2	30°	1998.0	1927.2	1323.6	677.5	430.7	339.1	298.4	275.1	257.2	246.8
2261.4	32.5°	2196.1	2100.2	1341.4	662.7	396.3	304.0	261.5	236.3	222.8	219.7
2463.2	35°	2383.2	2256.4	1339.6	648.6	365.5	268.9	225.2	199.4	188.9	190.8
2680.4	37.5°	2598.6	2423.2	1326.7	626.4	340.3	236.9	193.8	171.1	161.8	162.4
2944.4	40°	2849.0	2615.8	1318.7	584.6	312.6	207.4	168.0	149.5	142.8	140.3
3222.5	42.5°	3116.1	2802.3	1319.9	537.2	278.1	180.9	150.1	134.8	128.6	126.8
3532.0	45°	3384.4	2980.1	1321.7	488.0	241.8	160.6	137.2	124.3	120.6	118.1
3845.9	47.5°	3636.7	3131.5	1287.3	435.0	206.1	145.2	126.8	118.1	115.1	112.0
4160.9	50°	3871.7	3232.4	1204.2	373.5	177.8	132.9	118.8	112.6	109.5	106.5
4446.4	52.5°	4054.5	3248.4	1067.0	310.1	158.1	123.7	113.8	108.3	104.6	101.5
4677.2	55°	4135.7	3148.1	871.9	251.1	142.8	115.7	108.9	103.4	99.1	96.0
4858.7	57.5°	4114.8	2937.0	679.9	201.8	128.0	107.7	102.8	99.1	94.1	89.2
5005.8	60°	4012.0	2654.6	512.6	168.0	114.5	99.1	96.0	92.9	86.1	78.8
5062.4	62.5°	3834.2	2299.5	365.5	139.1	99.7	89.2	88.0	85.5	75.7	62.1
4978.7	65°	3562.2	1868.2	246.1	115.7	85.5	78.1	78.8	74.5	61.5	46.2
4672.3	67.5°	3164.7	1366.1	157.5	94.8	71.4	65.2	65.8	63.4	52.3	39.4
4091.4	70°	2658.3	904.5	102.8	72.0	57.2	50.5	54.1	54.8	44.3	32.0
3140.1	72.5°	1948.8	534.1	72.0	53.5	41.8	35.1	44.3	45.5	35.7	24.0
1889.1	75°	1110.7	253.5	54.1	38.8	25.8	24.6	34.5	34.5	24.6	16.0
817.8	77.5°	466.4	105.8	38.2	25.2	14.8	14.2	23.4	21.5	12.3	7.4
199.4	80°	134.8	47.4	20.3	12.3	6.2	5.5	9.2	6.8	3.1	1.2
75.7	82.5°	52.9	20.9	8.0	4.9	2.5	2.5	1.2	0.0	0.0	0.0
43.1	85°	31.4	8.6	3.7	1.8	0.6	0.0	0.0	0.0	0.0	0.0
9.2	87.5°	8.0	1.8	1.2	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>
1067.6
1060.2
1014.7
884.9
702.7
548.3
459.0
396.9
357.5
329.2
300.9
272.0
244.9
221.5
190.8
164.9
139.7
126.1
118.1
112.0
106.5
100.9
95.4
88.6
77.5
60.9
44.9
37.5
30.8
22.8
14.8
7.4
1.2
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