

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: P939658

Luminaire Tested: **GALN-SB2B-835-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939658  
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-SB2B-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

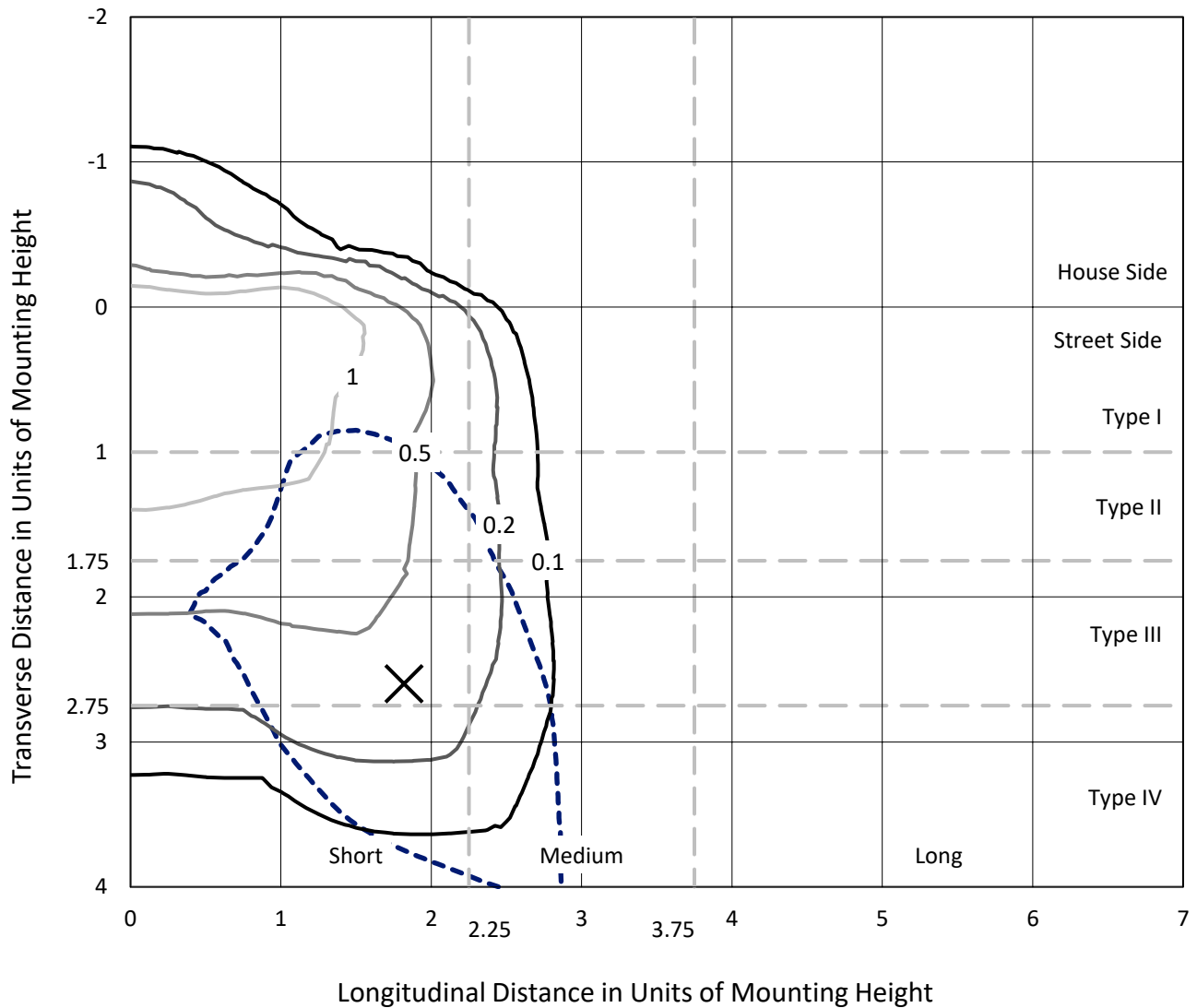
Lumens per Lamp: N/A  
Luminaire Lumens: 7908 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

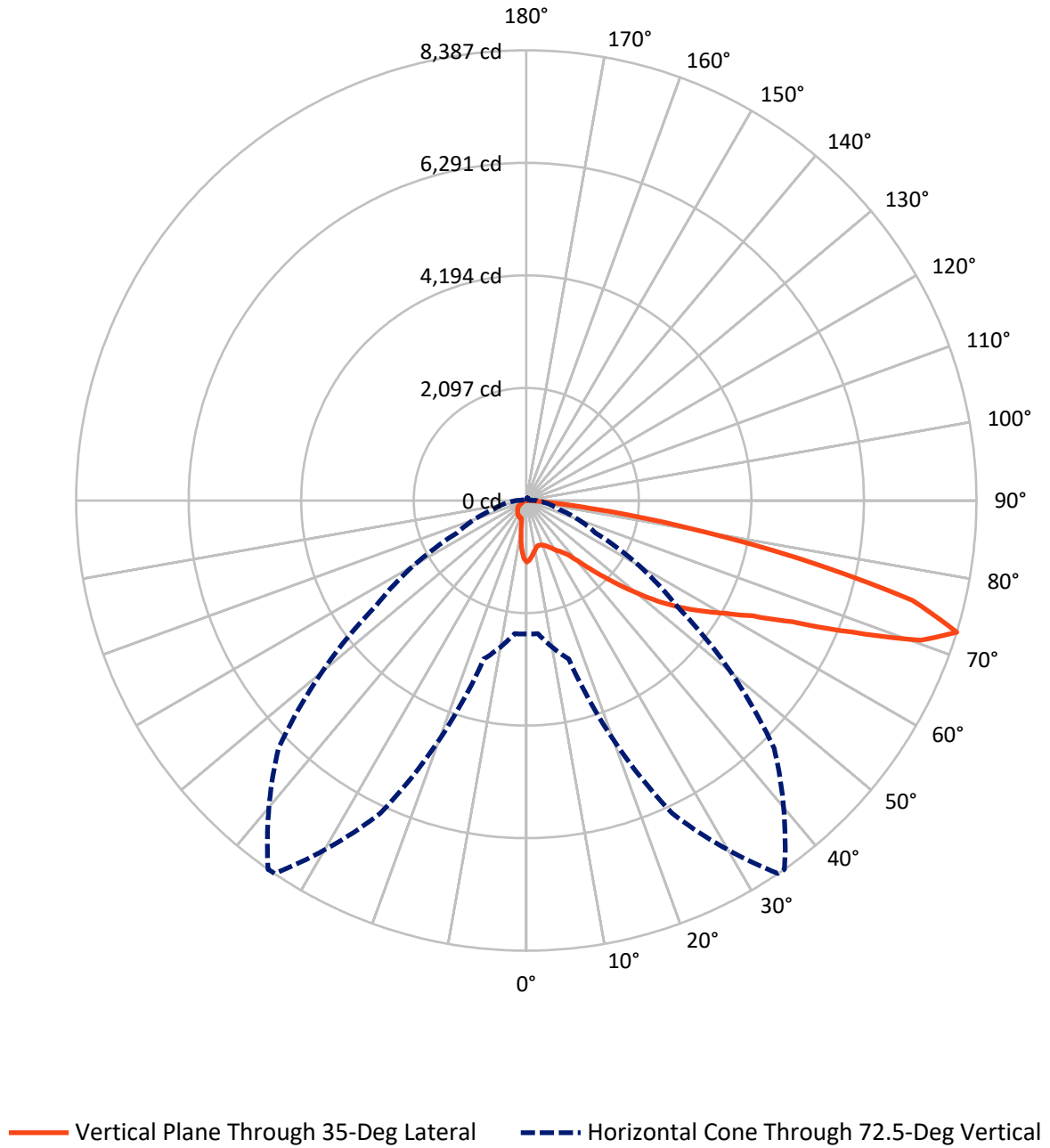
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	890.0	0.0	890.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	7018.0	0.0	7018.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	7908.0	0.0	7908.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	1.2
10°-20°	220.3	2.8
20°-30°	357.9	4.5
30°-40°	597.2	7.6
40°-50°	1129.9	14.3
50°-60°	1795.4	22.7
60°-70°	2221.0	28.1
70°-80°	1380.6	17.5
80°-90°	111.6	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°	7908.0	100.0
0°-180°	7908.0	100.0

**Coefficient of Utilization**



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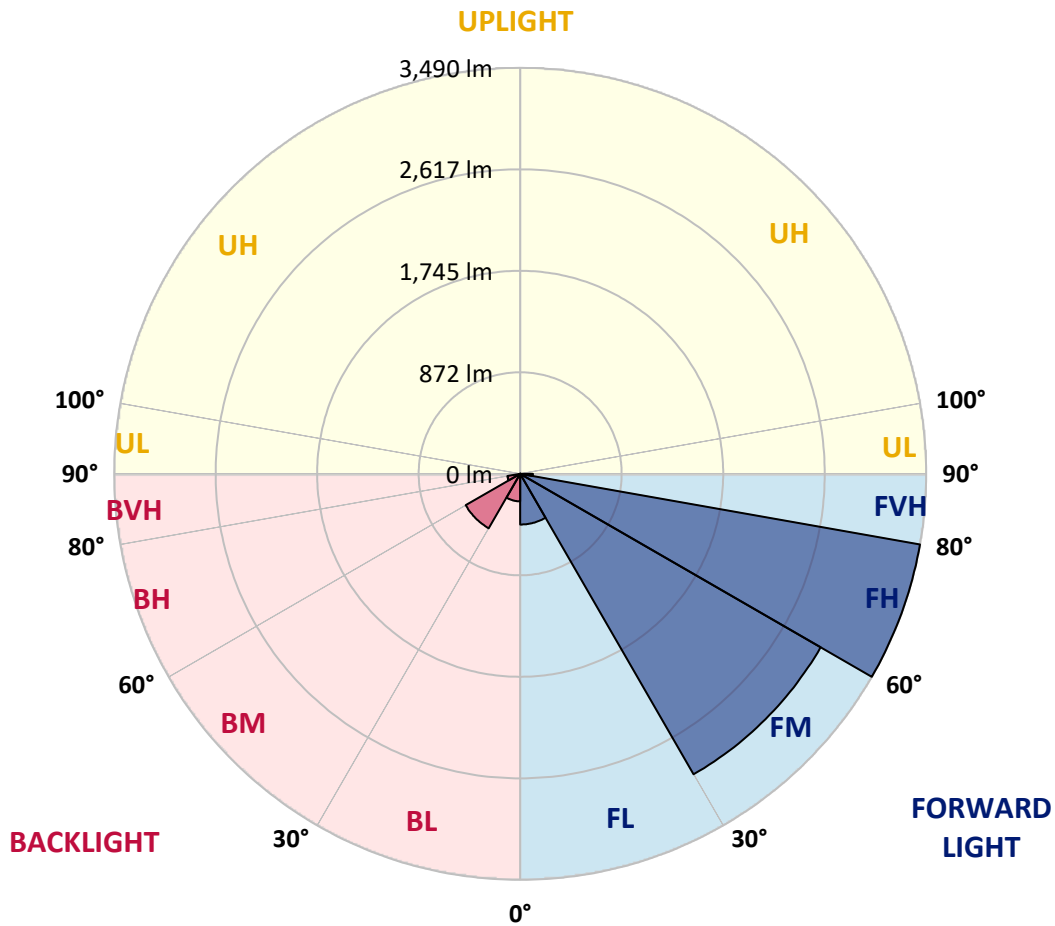
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.9	5.5			
FM (30°-60°)	2982.1	37.7			
FH (60°-80°)	3489.9	44.1			G2/5000
FVH (80°-90°)	110.1	1.4			G2/225
BL (0°-30°)	236.5	3.0	B1/500		
BM (30°-60°)	540.3	6.8	B1/1000		
BH (60°-80°)	111.7	1.4	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1095.1	1104.4	1106.2	1109.1	1109.1	1112.5	1118.3	1126.4	1139.8	1146.7
5°	1009.4	1016.3	1025.0	1032.0	1045.3	1047.0	1069.6	1091.7	1122.4	1145.6
7.5°	923.0	931.2	942.8	959.6	976.9	982.2	1016.3	1053.4	1102.1	1145.6
10°	862.2	862.8	873.2	890.0	917.8	924.2	965.9	1018.7	1079.5	1138.6
12.5°	828.0	832.1	836.7	849.5	876.1	880.2	924.8	986.8	1056.9	1134.5
15°	828.0	830.9	833.8	840.2	861.6	865.1	904.5	966.5	1045.3	1136.3
17.5°	836.7	841.3	839.0	846.6	869.2	871.5	906.2	960.7	1044.7	1147.3
20°	857.6	861.0	856.4	861.0	883.6	888.3	924.2	971.7	1054.6	1166.4
22.5°	890.6	892.3	881.3	884.8	908.0	913.8	955.5	1003.0	1078.3	1197.1
25°	932.3	935.8	919.0	923.0	945.1	952.0	1000.1	1049.9	1116.0	1239.4
27.5°	980.4	982.2	967.7	967.1	995.5	1005.3	1054.0	1107.9	1166.4	1292.7
30°	1035.5	1040.7	1026.8	1024.5	1060.4	1068.5	1116.6	1179.2	1240.6	1372.7
32.5°	1078.9	1083.0	1074.9	1080.7	1117.2	1123.5	1192.5	1280.0	1357.1	1486.3
35°	1141.5	1143.8	1125.3	1135.7	1177.4	1193.6	1296.2	1421.4	1503.6	1628.8
37.5°	1368.1	1368.1	1289.3	1237.7	1277.7	1292.2	1438.2	1599.3	1684.4	1820.0
40°	1681.5	1676.3	1561.0	1455.6	1450.3	1478.7	1640.4	1823.5	1917.9	2049.5
42.5°	2015.9	2007.8	1850.7	1746.4	1729.1	1738.9	1873.9	2099.9	2196.1	2329.4
45°	2312.5	2310.2	2166.5	2026.3	1995.0	2026.3	2165.4	2423.2	2492.2	2632.4
47.5°	2561.1	2561.1	2456.3	2364.7	2348.5	2367.0	2560.0	2781.9	2775.5	2955.1
50°	2847.4	2845.1	2745.4	2706.0	2722.8	2748.9	3014.3	3159.7	3068.7	3272.1
52.5°	3047.9	3061.8	3027.6	3021.2	3107.0	3152.2	3475.5	3529.4	3331.2	3572.8
55°	3206.6	3222.9	3262.3	3306.9	3472.0	3531.1	3922.2	3879.9	3550.8	3833.6
57.5°	3431.4	3408.3	3469.1	3557.2	3824.3	3895.6	4355.1	4210.8	3727.5	4045.1
60°	3704.4	3707.8	3718.3	3829.5	4176.0	4267.6	4781.5	4523.7	3841.1	4174.9
62.5°	4032.3	4037.5	4059.0	4229.9	4648.3	4734.6	5235.8	4779.8	3893.3	4138.4
65°	4009.7	4031.8	4271.1	4855.7	5366.2	5451.4	5766.0	4959.4	3814.5	3804.6
67.5°	3652.8	3688.7	4089.1	5603.2	6448.6	6543.6	6406.9	4994.8	3474.3	2958.6
70°	3184.6	3197.4	3678.9	6275.3	7701.9	7798.1	6980.5	4606.0	2636.5	1650.2
72.5°	2487.0	2489.9	3054.8	6431.2	8382.2	8387.4	6530.3	3419.3	1417.9	633.9
75°	1776.6	1759.2	2046.0	5215.5	7374.5	7433.6	4895.7	1603.9	541.8	299.6
77.5°	952.6	971.7	1157.7	3093.1	5094.4	5195.3	2671.2	462.4	275.8	204.0
80°	294.4	310.6	474.6	1416.2	2885.6	2946.5	990.3	205.7	192.4	145.4
82.5°	92.7	96.2	221.3	595.1	1197.7	1225.5	286.8	116.5	131.5	96.2
85°	26.7	27.2	98.5	221.9	296.1	301.9	80.5	45.2	75.3	59.7
87.5°	2.9	9.3	37.1	37.1	26.1	25.5	8.7	9.9	21.4	7.5
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°
1146.1	0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
1151.3	2.5°	1148.5	1149.0	1141.5	1128.8	1114.8	1103.3	1088.8	1077.2	1069.1	1066.8
1161.8	5°	1156.6	1152.5	1131.1	1092.2	1045.9	1005.9	961.3	925.9	902.8	892.9
1172.8	7.5°	1168.7	1157.1	1110.2	1033.7	945.1	866.3	786.3	724.3	684.9	665.2
1183.2	10°	1179.2	1156.0	1075.4	949.1	813.5	694.2	586.4	511.6	469.9	450.2
1195.4	12.5°	1189.0	1155.4	1030.2	848.9	665.2	519.2	418.9	381.9	370.3	366.2
1215.1	15°	1207.6	1157.1	973.5	734.2	517.4	392.3	355.8	355.2	357.5	356.4
1245.2	17.5°	1233.1	1158.9	909.1	612.5	399.2	345.9	344.2	349.4	352.9	351.1
1282.9	20°	1266.1	1165.8	840.8	491.9	343.0	334.3	338.4	343.0	345.9	343.0
1333.3	22.5°	1312.4	1178.0	766.0	395.2	325.1	327.4	330.9	336.1	339.0	334.9
1397.6	25°	1369.2	1197.1	692.4	343.6	316.4	319.3	324.5	330.3	333.8	329.7
1478.7	27.5°	1442.8	1227.8	624.6	332.0	307.7	309.4	317.0	325.6	330.3	325.1
1594.0	30°	1549.4	1278.2	566.1	337.2	302.5	298.4	308.8	321.0	326.2	321.6
1751.1	32.5°	1690.8	1349.5	530.2	345.3	300.2	285.7	295.5	311.2	319.9	317.0
1956.2	35°	1876.2	1457.9	516.3	354.6	298.4	272.3	279.3	296.1	311.2	314.1
2214.6	37.5°	2101.1	1608.5	520.3	358.7	293.2	261.3	264.8	279.3	299.0	308.3
2505.5	40°	2356.6	1784.1	543.5	354.6	287.4	252.1	252.6	263.6	281.0	294.9
2818.4	42.5°	2620.2	1989.2	586.4	339.6	282.2	243.9	242.2	249.7	261.3	271.2
3130.7	45°	2871.1	2200.1	628.7	318.7	275.8	235.8	231.8	234.7	237.0	241.0
3434.9	47.5°	3090.2	2348.5	616.5	299.6	267.1	226.6	219.6	218.4	211.5	210.9
3706.7	50°	3241.4	2380.9	547.6	280.4	254.4	216.1	205.1	198.2	186.0	180.2
3910.1	52.5°	3289.5	2252.9	447.3	261.3	233.5	202.2	186.6	175.6	160.5	155.3
4027.1	55°	3225.7	2002.0	357.5	238.2	204.5	183.7	166.3	151.8	139.6	133.3
4039.9	57.5°	3069.9	1682.7	282.8	210.9	173.8	162.8	145.4	131.0	120.5	114.1
3898.5	60°	2811.4	1336.2	223.7	178.5	148.3	140.2	122.3	113.0	103.7	96.2
3533.4	62.5°	2419.2	953.8	175.6	141.4	124.0	114.7	104.3	97.3	86.3	75.9
2876.9	65°	1887.8	583.5	135.6	103.7	99.7	95.0	88.7	82.3	69.0	58.5
1876.8	67.5°	1190.8	276.4	96.8	78.2	78.8	76.5	73.6	68.4	58.5	49.3
840.8	70°	524.4	133.9	63.7	59.7	58.5	58.5	60.8	59.1	49.8	41.1
292.0	72.5°	178.5	71.9	47.5	45.2	42.3	41.7	51.0	49.3	40.0	31.9
145.4	75°	93.3	48.1	34.8	32.4	25.5	30.7	40.6	38.2	28.4	20.9
96.2	77.5°	60.8	34.2	23.8	20.9	14.5	20.3	30.1	26.7	16.8	10.4
63.2	80°	38.2	22.6	13.9	9.9	7.0	11.0	16.2	11.6	6.4	2.3
37.1	82.5°	20.3	11.6	5.2	3.5	2.9	3.5	4.1	2.9	1.2	0.0
19.1	85°	8.1	4.1	1.7	1.2	0.6	0.0	1.2	0.6	0.0	0.0
3.5	87.5°	2.9	0.6	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>
1146.1
1070.8
896.4
668.1
450.8
365.0
355.8
350.6
342.4
334.3
329.1
325.1
321.0
317.0
314.1
310.6
299.6
275.2
243.4
210.3
180.8
154.7
133.3
113.0
94.4
74.2
56.8
48.1
39.4
30.1
19.1
9.3
1.7
0.0
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