

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: P939548

Luminaire Tested: **GALN-SB2A-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939548  
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-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

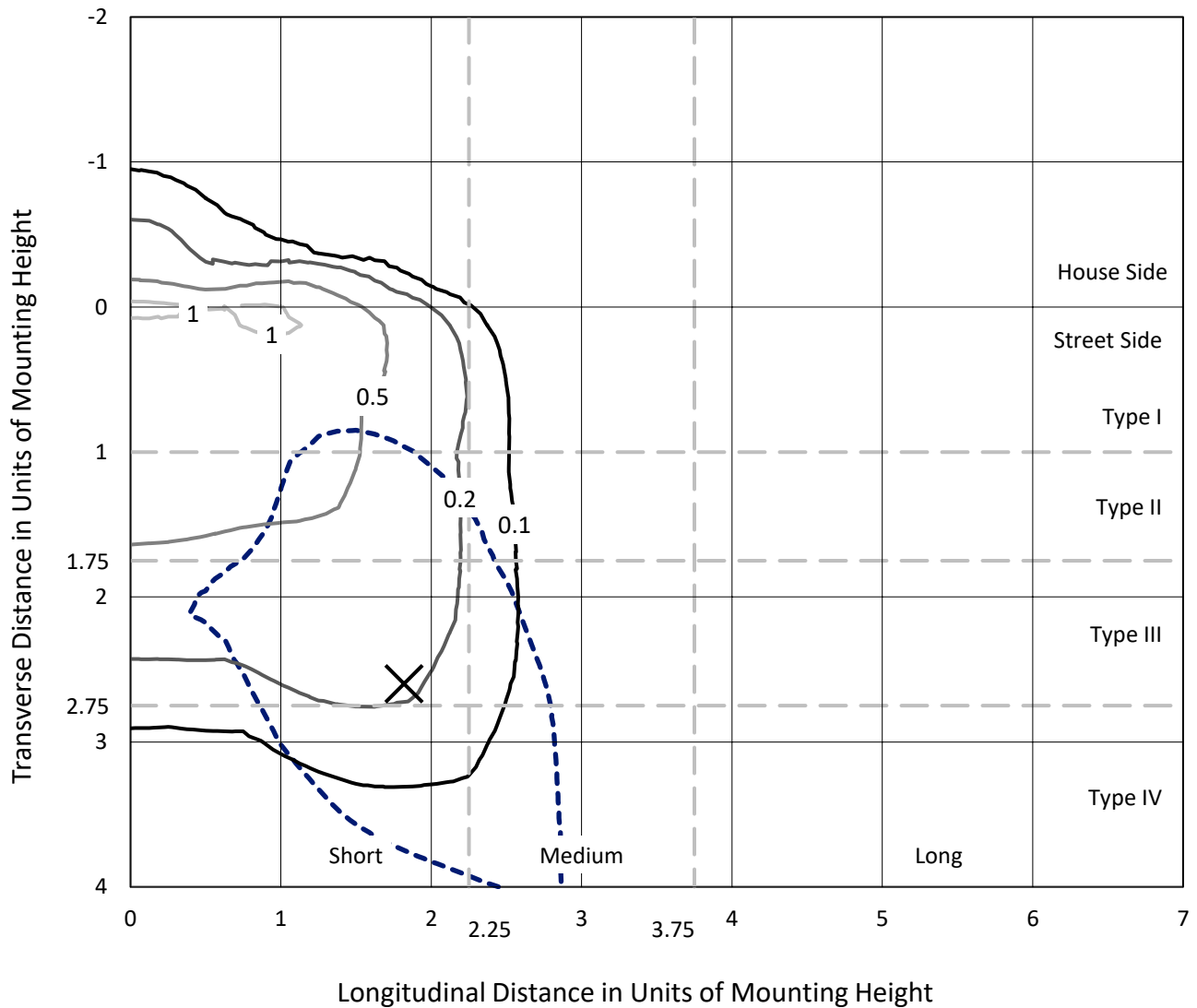
Lumens per Lamp: N/A  
Luminaire Lumens: 4922 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

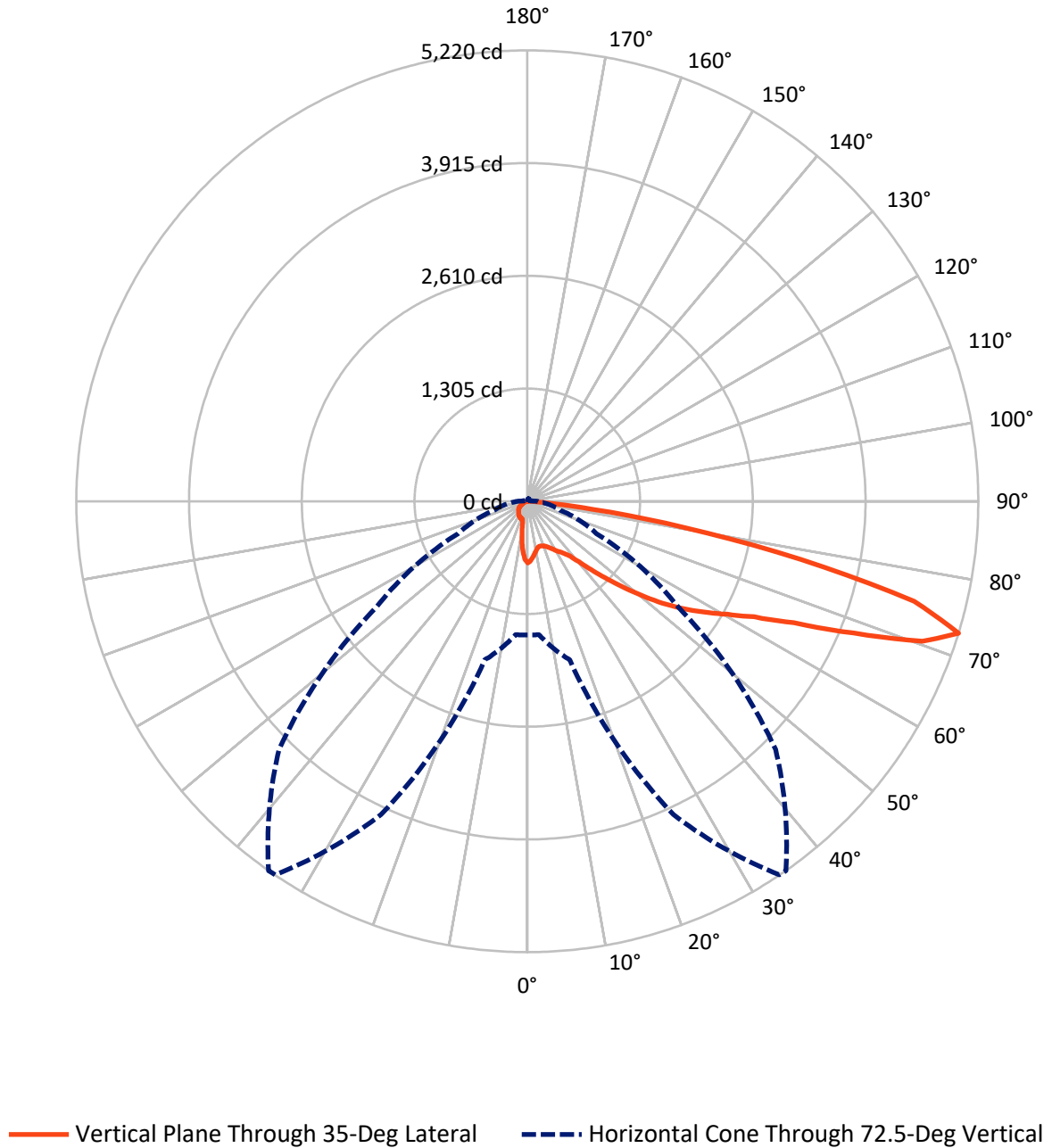
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	554.0	0.0	554.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	4368.0	0.0	4368.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	4922.0	0.0	4922.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.6	1.2
10°-20°	137.1	2.8
20°-30°	222.8	4.5
30°-40°	371.7	7.6
40°-50°	703.2	14.3
50°-60°	1117.4	22.7
60°-70°	1382.4	28.1
70°-80°	859.3	17.5
80°-90°	69.4	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°	4922.0	100.0
0°-180°	4922.0	100.0

**Coefficient of Utilization**



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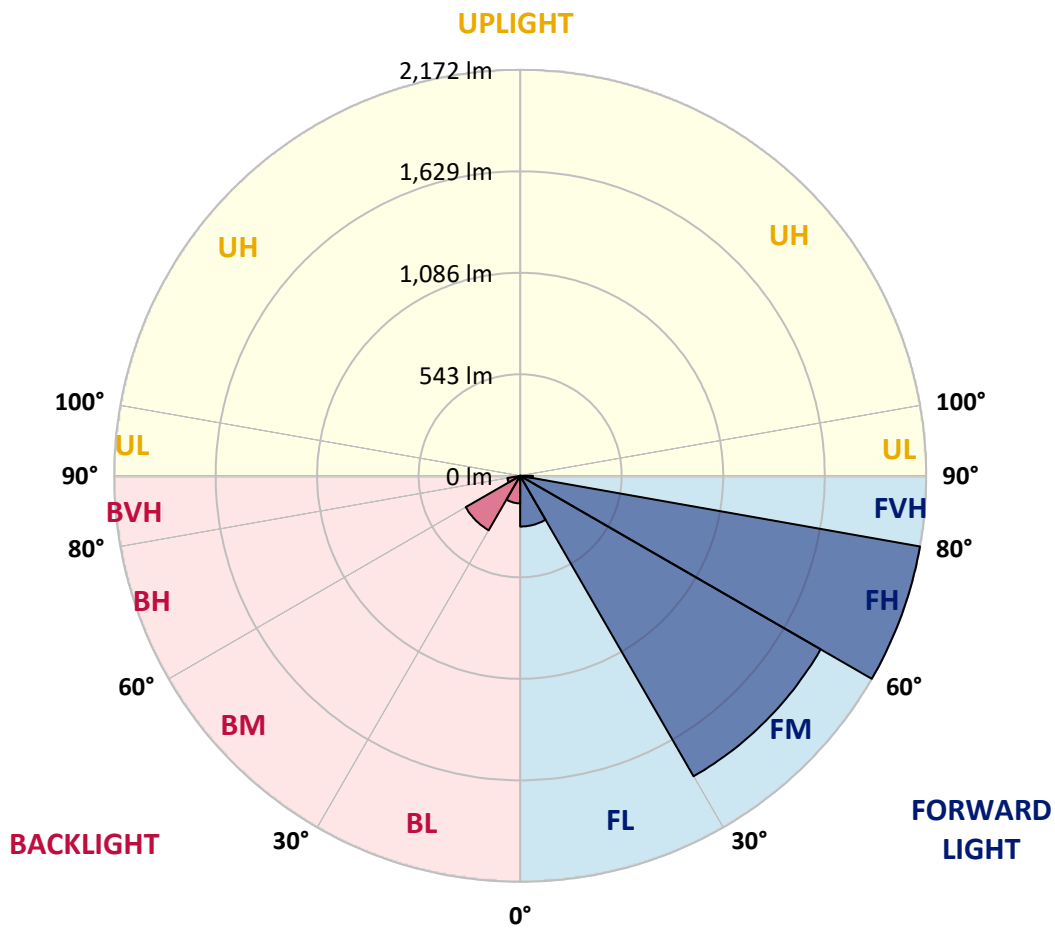
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.3	5.5			
FM (30°-60°)	1856.1	37.7			
FH (60°-80°)	2172.1	44.1			G2/5000
FVH (80°-90°)	68.5	1.4			G1/100
BL (0°-30°)	147.2	3.0	B1/500		
BM (30°-60°)	336.3	6.8	B1/1000		
BH (60°-80°)	69.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	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°	713.4	713.4	713.4	713.4	713.4	713.4	713.4	713.4	713.4	713.4
2.5°	681.6	687.4	688.5	690.3	690.3	692.4	696.1	701.1	709.4	713.7
5°	628.2	632.6	638.0	642.3	650.6	651.7	665.8	679.5	698.6	713.0
7.5°	574.5	579.6	586.8	597.2	608.1	611.3	632.6	655.7	686.0	713.0
10°	536.6	537.0	543.5	554.0	571.3	575.2	601.2	634.0	671.9	708.7
12.5°	515.4	517.9	520.8	528.7	545.3	547.8	575.6	614.2	657.8	706.1
15°	515.4	517.2	519.0	522.9	536.3	538.4	563.0	601.6	650.6	707.2
17.5°	520.8	523.7	522.2	526.9	541.0	542.4	564.1	598.0	650.2	714.1
20°	533.8	535.9	533.0	535.9	550.0	552.9	575.2	604.8	656.4	726.0
22.5°	554.3	555.4	548.5	550.7	565.1	568.7	594.7	624.3	671.2	745.1
25°	580.3	582.4	572.0	574.5	588.2	592.5	622.5	653.5	694.6	771.4
27.5°	610.2	611.3	602.3	601.9	619.6	625.7	656.0	689.6	726.0	804.6
30°	644.5	647.7	639.1	637.6	660.0	665.0	695.0	733.9	772.1	854.4
32.5°	671.5	674.1	669.0	672.6	695.3	699.3	742.2	796.7	844.6	925.1
35°	710.5	711.9	700.4	706.9	732.8	742.9	806.8	884.7	935.9	1013.8
37.5°	851.5	851.5	802.4	770.3	795.2	804.2	895.1	995.4	1048.4	1132.8
40°	1046.6	1043.4	971.6	905.9	902.7	920.4	1021.0	1135.0	1193.7	1275.6
42.5°	1254.7	1249.6	1151.9	1087.0	1076.2	1082.3	1166.3	1307.0	1366.9	1449.8
45°	1439.3	1437.9	1348.5	1261.2	1241.7	1261.2	1347.7	1508.2	1551.1	1638.4
47.5°	1594.1	1594.1	1528.8	1471.8	1461.7	1473.2	1593.3	1731.5	1727.5	1839.3
50°	1772.2	1770.8	1708.8	1684.2	1694.7	1710.9	1876.1	1966.6	1910.0	2036.6
52.5°	1897.0	1905.7	1884.4	1880.4	1933.8	1961.9	2163.2	2196.7	2073.4	2223.8
55°	1995.8	2005.9	2030.5	2058.2	2161.0	2197.8	2441.2	2414.9	2210.1	2386.1
57.5°	2135.8	2121.3	2159.2	2214.0	2380.3	2424.6	2710.6	2620.8	2320.1	2517.7
60°	2305.6	2307.8	2314.3	2383.5	2599.2	2656.2	2976.1	2815.6	2390.7	2598.5
62.5°	2509.8	2513.0	2526.3	2632.7	2893.1	2946.9	3258.8	2975.0	2423.2	2575.8
65°	2495.7	2509.4	2658.3	3022.2	3340.0	3393.0	3588.8	3086.8	2374.1	2368.0
67.5°	2273.5	2295.9	2545.1	3487.5	4013.7	4072.8	3987.7	3108.8	2162.4	1841.5
70°	1982.1	1990.1	2289.8	3905.8	4793.7	4853.6	4344.7	2866.8	1641.0	1027.1
72.5°	1547.9	1549.7	1901.3	4002.8	5217.1	5220.4	4064.5	2128.2	882.5	394.5
75°	1105.7	1094.9	1273.5	3246.2	4590.0	4626.8	3047.1	998.3	337.2	186.5
77.5°	592.9	604.8	720.6	1925.1	3170.8	3233.6	1662.6	287.8	171.7	126.9
80°	183.2	193.3	295.4	881.4	1796.0	1833.9	616.3	128.0	119.7	90.5
82.5°	57.7	59.9	137.8	370.4	745.5	762.8	178.5	72.5	81.9	59.9
85°	16.6	17.0	61.3	138.1	184.3	187.9	50.1	28.1	46.9	37.1
87.5°	1.8	5.8	23.1	23.1	16.2	15.9	5.4	6.1	13.3	4.7
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°
713.4	0°	713.4	713.4	713.4	713.4	713.4	713.4	713.4	713.4	713.4	713.4
716.6	2.5°	714.8	715.2	710.5	702.5	693.9	686.7	677.7	670.4	665.4	664.0
723.1	5°	719.9	717.3	704.0	679.8	651.0	626.1	598.3	576.3	561.9	555.8
730.0	7.5°	727.4	720.2	691.0	643.4	588.2	539.2	489.4	450.8	426.3	414.0
736.4	10°	733.9	719.5	669.4	590.7	506.4	432.1	365.0	318.5	292.5	280.2
744.0	12.5°	740.1	719.1	641.2	528.4	414.0	323.1	260.7	237.7	230.5	227.9
756.3	15°	751.6	720.2	605.9	456.9	322.1	244.2	221.4	221.1	222.5	221.8
775.0	17.5°	767.5	721.3	565.9	381.2	248.5	215.3	214.2	217.5	219.6	218.6
798.5	20°	788.0	725.6	523.3	306.2	213.5	208.1	210.6	213.5	215.3	213.5
829.9	22.5°	816.9	733.2	476.8	246.0	202.3	203.8	205.9	209.2	211.0	208.5
869.9	25°	852.2	745.1	431.0	213.9	196.9	198.7	202.0	205.6	207.7	205.2
920.4	27.5°	898.0	764.2	388.8	206.7	191.5	192.6	197.3	202.7	205.6	202.3
992.1	30°	964.4	795.6	352.4	209.9	188.3	185.7	192.2	199.8	203.0	200.2
1089.9	32.5°	1052.4	840.0	330.0	214.9	186.8	177.8	183.9	193.7	199.1	197.3
1217.5	35°	1167.8	907.4	321.3	220.7	185.7	169.5	173.8	184.3	193.7	195.5
1378.4	37.5°	1307.7	1001.2	323.9	223.2	182.5	162.7	164.8	173.8	186.1	191.9
1559.4	40°	1466.8	1110.4	338.3	220.7	178.9	156.9	157.2	164.1	174.9	183.6
1754.2	42.5°	1630.9	1238.1	365.0	211.3	175.6	151.8	150.8	155.4	162.7	168.8
1948.6	45°	1787.0	1369.4	391.3	198.4	171.7	146.8	144.3	146.1	147.5	150.0
2137.9	47.5°	1923.3	1461.7	383.7	186.5	166.3	141.0	136.7	136.0	131.6	131.3
2307.1	50°	2017.5	1481.9	340.8	174.6	158.3	134.5	127.7	123.3	115.8	112.2
2433.7	52.5°	2047.4	1402.2	278.4	162.7	145.3	125.9	116.1	109.3	99.9	96.7
2506.5	55°	2007.7	1246.0	222.5	148.2	127.3	114.3	103.5	94.5	86.9	82.9
2514.4	57.5°	1910.7	1047.3	176.0	131.3	108.2	101.3	90.5	81.5	75.0	71.0
2426.4	60°	1749.9	831.7	139.2	111.1	92.3	87.3	76.1	70.3	64.6	59.9
2199.2	62.5°	1505.7	593.6	109.3	88.0	77.2	71.4	64.9	60.6	53.7	47.2
1790.6	65°	1175.0	363.2	84.4	64.6	62.0	59.1	55.2	51.2	42.9	36.4
1168.1	67.5°	741.1	172.0	60.2	48.7	49.0	47.6	45.8	42.6	36.4	30.7
523.3	70°	326.4	83.3	39.7	37.1	36.4	36.4	37.9	36.8	31.0	25.6
181.8	72.5°	111.1	44.7	29.6	28.1	26.3	26.0	31.7	30.7	24.9	19.8
90.5	75°	58.1	29.9	21.6	20.2	15.9	19.1	25.2	23.8	17.7	13.0
59.9	77.5°	37.9	21.3	14.8	13.0	9.0	12.6	18.8	16.6	10.5	6.5
39.3	80°	23.8	14.1	8.7	6.1	4.3	6.9	10.1	7.2	4.0	1.4
23.1	82.5°	12.6	7.2	3.2	2.2	1.8	2.2	2.5	1.8	0.7	0.0
11.9	85°	5.0	2.5	1.1	0.7	0.4	0.0	0.7	0.4	0.0	0.0
2.2	87.5°	1.8	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>
713.4
666.5
557.9
415.8
280.6
227.2
221.4
218.2
213.1
208.1
204.8
202.3
199.8
197.3
195.5
193.3
186.5
171.3
151.5
130.9
112.5
96.3
82.9
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