

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: P939278

Luminaire Tested: **GALN-SB1D-750-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939278  
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-SB1D-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

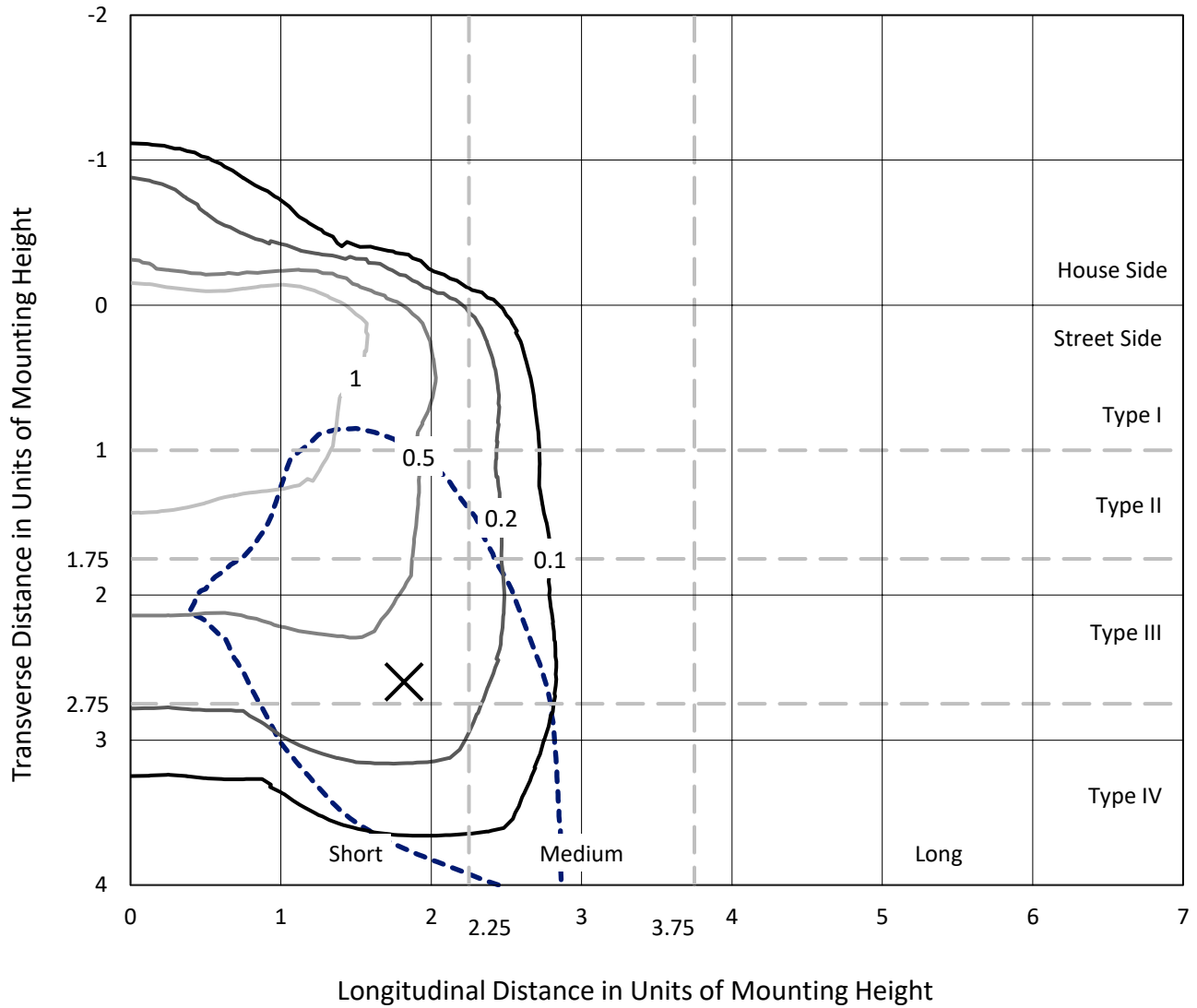
Lumens per Lamp: N/A  
Luminaire Lumens: 8154 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

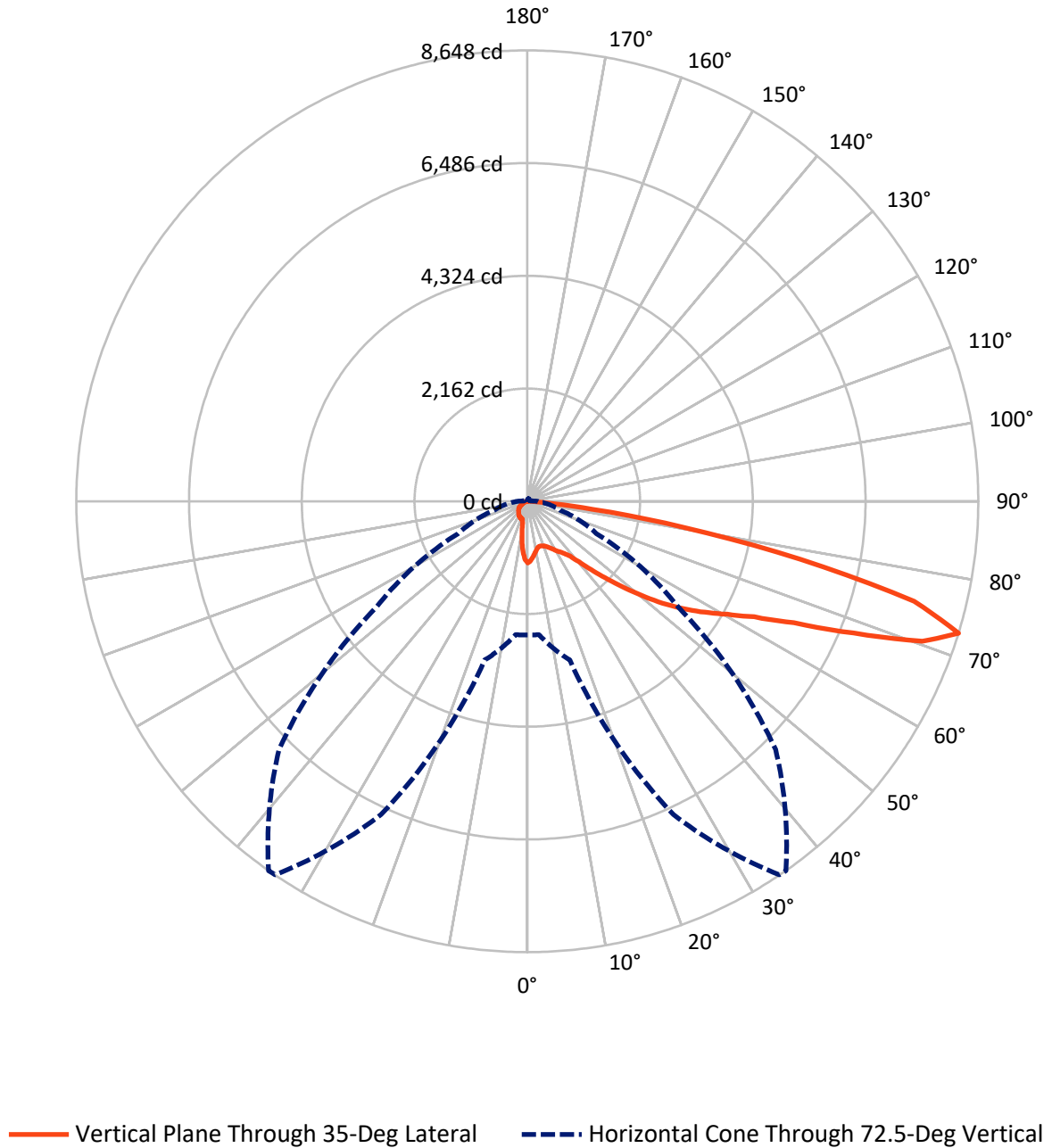
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	917.7	0.0	917.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	7236.3	0.0	7236.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	8154.0	0.0	8154.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	1.2
10°-20°	227.2	2.8
20°-30°	369.0	4.5
30°-40°	615.8	7.6
40°-50°	1165.0	14.3
50°-60°	1851.2	22.7
60°-70°	2290.1	28.1
70°-80°	1423.5	17.5
80°-90°	115.0	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°	8154.0	100.0
0°-180°	8154.0	100.0

**Coefficient of Utilization**



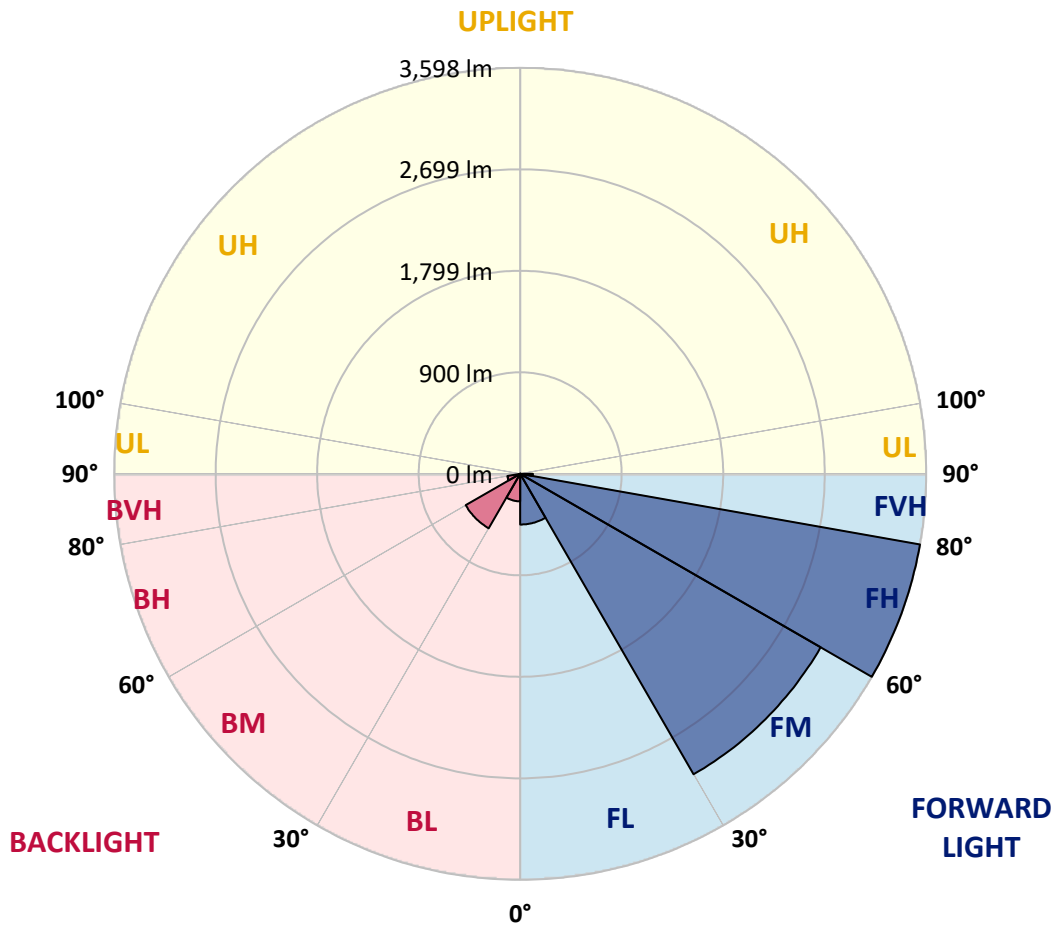
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.5	5.5			
FM (30°-60°)	3074.9	37.7			
FH (60°-80°)	3598.5	44.1			G2/5000
FVH (80°-90°)	113.5	1.4			G2/225
BL (0°-30°)	243.8	3.0	B1/500		
BM (30°-60°)	557.1	6.8	B1/1000		
BH (60°-80°)	115.2	1.4	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8
2.5°	1129.2	1138.8	1140.6	1143.6	1143.6	1147.1	1153.1	1161.5	1175.2	1182.4
5°	1040.8	1048.0	1056.9	1064.1	1077.8	1079.6	1102.9	1125.6	1157.3	1181.2
7.5°	951.8	960.1	972.1	989.4	1007.3	1012.7	1048.0	1086.2	1136.4	1181.2
10°	889.0	889.6	900.4	917.7	946.4	953.0	996.0	1050.3	1113.1	1174.0
12.5°	853.8	858.0	862.7	875.9	903.4	907.6	953.6	1017.5	1089.8	1169.8
15°	853.8	856.8	859.8	866.3	888.4	892.0	932.6	996.6	1077.8	1171.6
17.5°	862.7	867.5	865.1	872.9	896.2	898.6	934.4	990.6	1077.2	1183.0
20°	884.2	887.8	883.1	887.8	911.1	915.9	953.0	1002.0	1087.4	1202.7
22.5°	918.3	920.1	908.7	912.3	936.2	942.2	985.2	1034.2	1111.9	1234.4
25°	961.3	964.9	947.6	951.8	974.5	981.6	1031.2	1082.6	1150.7	1278.0
27.5°	1010.9	1012.7	997.8	997.2	1026.4	1036.6	1086.8	1142.4	1202.7	1332.9
30°	1067.7	1073.0	1058.7	1056.3	1093.4	1101.7	1151.3	1215.8	1279.2	1415.4
32.5°	1112.5	1116.7	1108.3	1114.3	1151.9	1158.5	1229.6	1319.8	1399.3	1532.5
35°	1177.0	1179.4	1160.3	1171.0	1214.1	1230.8	1336.5	1465.6	1550.4	1679.5
37.5°	1410.6	1410.6	1329.4	1276.2	1317.4	1332.3	1482.9	1649.0	1736.8	1876.6
40°	1733.8	1728.5	1609.6	1500.8	1495.5	1524.7	1691.4	1880.2	1977.6	2113.2
42.5°	2078.6	2070.2	1908.3	1800.8	1782.8	1793.0	1932.2	2165.2	2264.4	2401.8
45°	2384.5	2382.1	2233.9	2089.3	2057.1	2089.3	2232.7	2498.6	2569.7	2714.3
47.5°	2640.8	2640.8	2532.7	2438.3	2421.5	2440.6	2639.6	2868.4	2861.9	3047.1
50°	2935.9	2933.6	2830.8	2790.2	2807.5	2834.4	3108.0	3258.0	3164.2	3373.9
52.5°	3142.7	3157.0	3121.8	3115.2	3203.6	3250.2	3583.6	3639.2	3434.8	3684.0
55°	3306.4	3323.1	3363.7	3409.7	3580.0	3641.0	4044.2	4000.6	3661.3	3952.8
57.5°	3538.2	3514.3	3577.0	3667.8	3943.3	4016.8	4490.6	4341.8	3843.5	4170.9
60°	3819.6	3823.2	3833.9	3948.7	4305.9	4400.3	4930.3	4664.4	3960.6	4304.7
62.5°	4157.8	4163.1	4185.3	4361.5	4792.9	4881.9	5398.7	4928.5	4014.4	4267.1
65°	4134.5	4157.2	4403.9	5006.8	5533.1	5621.0	5945.4	5113.7	3933.1	3923.0
67.5°	3766.4	3803.5	4216.3	5777.5	6649.2	6747.2	6606.2	5150.2	3582.4	3050.7
70°	3283.7	3296.8	3793.3	6470.6	7941.5	8040.7	7197.7	4749.3	2718.5	1701.6
72.5°	2564.3	2567.3	3149.8	6631.3	8642.9	8648.3	6733.4	3525.6	1462.0	653.6
75°	1831.8	1813.9	2109.7	5377.8	7604.0	7664.9	5048.0	1653.8	558.6	308.9
77.5°	982.2	1002.0	1193.7	3189.3	5252.9	5356.9	2754.3	476.8	284.4	210.3
80°	303.5	320.2	489.3	1460.2	2975.4	3038.1	1021.1	212.1	198.4	150.0
82.5°	95.6	99.2	228.2	613.6	1235.0	1263.6	295.7	120.1	135.6	99.2
85°	27.5	28.1	101.6	228.8	305.3	311.3	83.0	46.6	77.7	61.5
87.5°	3.0	9.6	38.2	38.2	26.9	26.3	9.0	10.2	22.1	7.8
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°
1181.8	0°	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8	1181.8
1187.2	2.5°	1184.2	1184.8	1177.0	1163.9	1149.5	1137.6	1122.6	1110.7	1102.3	1099.9
1197.9	5°	1192.5	1188.4	1166.3	1126.2	1078.4	1037.2	991.2	954.8	930.9	920.7
1209.3	7.5°	1205.1	1193.1	1144.7	1065.9	974.5	893.2	810.8	746.8	706.2	685.9
1220.0	10°	1215.8	1191.9	1108.9	978.6	838.8	715.8	604.6	527.6	484.5	464.2
1232.6	12.5°	1226.0	1191.3	1062.3	875.3	685.9	535.3	432.0	393.7	381.8	377.6
1252.9	15°	1245.1	1193.1	1003.7	757.0	533.5	404.5	366.8	366.2	368.6	367.4
1284.0	17.5°	1271.4	1194.9	937.4	631.5	411.7	356.7	354.9	360.3	363.9	362.1
1322.8	20°	1305.5	1202.1	866.9	507.2	353.7	344.7	348.9	353.7	356.7	353.7
1374.8	22.5°	1353.3	1214.6	789.9	407.5	335.2	337.6	341.2	346.5	349.5	345.3
1441.1	25°	1411.8	1234.4	714.0	354.3	326.2	329.2	334.6	340.6	344.1	340.0
1524.7	27.5°	1487.7	1266.0	644.1	342.3	317.3	319.0	326.8	335.8	340.6	335.2
1643.6	30°	1597.6	1318.0	583.7	347.7	311.9	307.7	318.4	331.0	336.4	331.6
1805.5	32.5°	1743.4	1391.5	546.7	356.1	309.5	294.6	304.7	320.8	329.8	326.8
2017.0	35°	1934.6	1503.2	532.3	365.6	307.7	280.8	288.0	305.3	320.8	323.8
2283.5	37.5°	2166.4	1658.6	536.5	369.8	302.3	269.5	273.0	288.0	308.3	317.9
2583.4	40°	2429.9	1839.6	560.4	365.6	296.3	259.9	260.5	271.8	289.8	304.1
2906.1	42.5°	2701.7	2051.1	604.6	350.1	291.0	251.5	249.7	257.5	269.5	279.6
3228.1	45°	2960.4	2268.6	648.3	328.6	284.4	243.2	239.0	242.0	244.4	248.5
3541.8	47.5°	3186.3	2421.5	635.7	308.9	275.4	233.6	226.4	225.2	218.1	217.5
3822.0	50°	3342.2	2455.0	564.6	289.2	262.3	222.9	211.5	204.3	191.8	185.8
4031.7	52.5°	3391.8	2322.9	461.2	269.5	240.8	208.5	192.4	181.0	165.5	160.1
4152.4	55°	3326.1	2064.2	368.6	245.6	210.9	189.4	171.5	156.5	144.0	137.4
4165.5	57.5°	3165.4	1735.0	291.6	217.5	179.2	167.9	150.0	135.0	124.3	117.7
4019.8	60°	2898.9	1377.8	230.6	184.0	153.0	144.6	126.1	116.5	106.9	99.2
3643.3	62.5°	2494.4	983.4	181.0	145.8	127.9	118.3	107.5	100.4	89.0	78.3
2966.4	65°	1946.5	601.6	139.8	106.9	102.8	98.0	91.4	84.8	71.1	60.3
1935.2	67.5°	1227.8	285.0	99.8	80.7	81.3	78.9	75.9	70.5	60.3	50.8
866.9	70°	540.7	138.0	65.7	61.5	60.3	60.3	62.7	60.9	51.4	42.4
301.1	72.5°	184.0	74.1	49.0	46.6	43.6	43.0	52.6	50.8	41.2	32.9
150.0	75°	96.2	49.6	35.8	33.5	26.3	31.7	41.8	39.4	29.3	21.5
99.2	77.5°	62.7	35.3	24.5	21.5	14.9	20.9	31.1	27.5	17.3	10.8
65.1	80°	39.4	23.3	14.3	10.2	7.2	11.4	16.7	11.9	6.6	2.4
38.2	82.5°	20.9	11.9	5.4	3.6	3.0	3.6	4.2	3.0	1.2	0.0
19.7	85°	8.4	4.2	1.8	1.2	0.6	0.0	1.2	0.6	0.0	0.0
3.6	87.5°	3.0	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>
1181.8
1104.1
924.3
688.9
464.8
376.4
366.8
361.5
353.1
344.7
339.4
335.2
331.0
326.8
323.8
320.2
308.9
283.8
250.9
216.9
186.4
159.5
137.4
116.5
97.4
76.5
58.6
49.6
40.6
<i>31.1</i>
19.7
9.6
1.8
0.0
0.0
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0.0

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