

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: P939104

Luminaire Tested: **GALN-SB1C-750-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

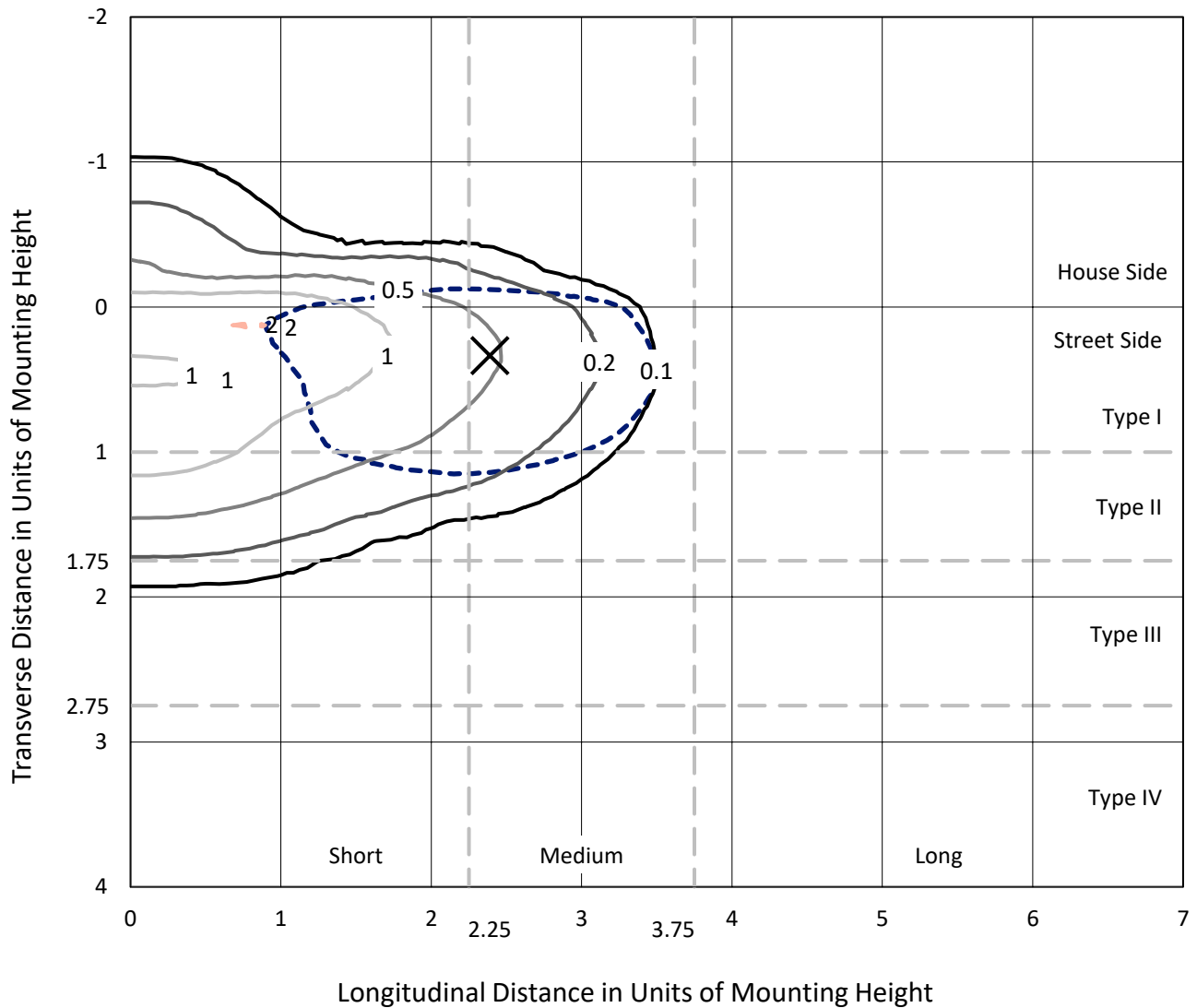
Lumens per Lamp: N/A  
Luminaire Lumens: 5788 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

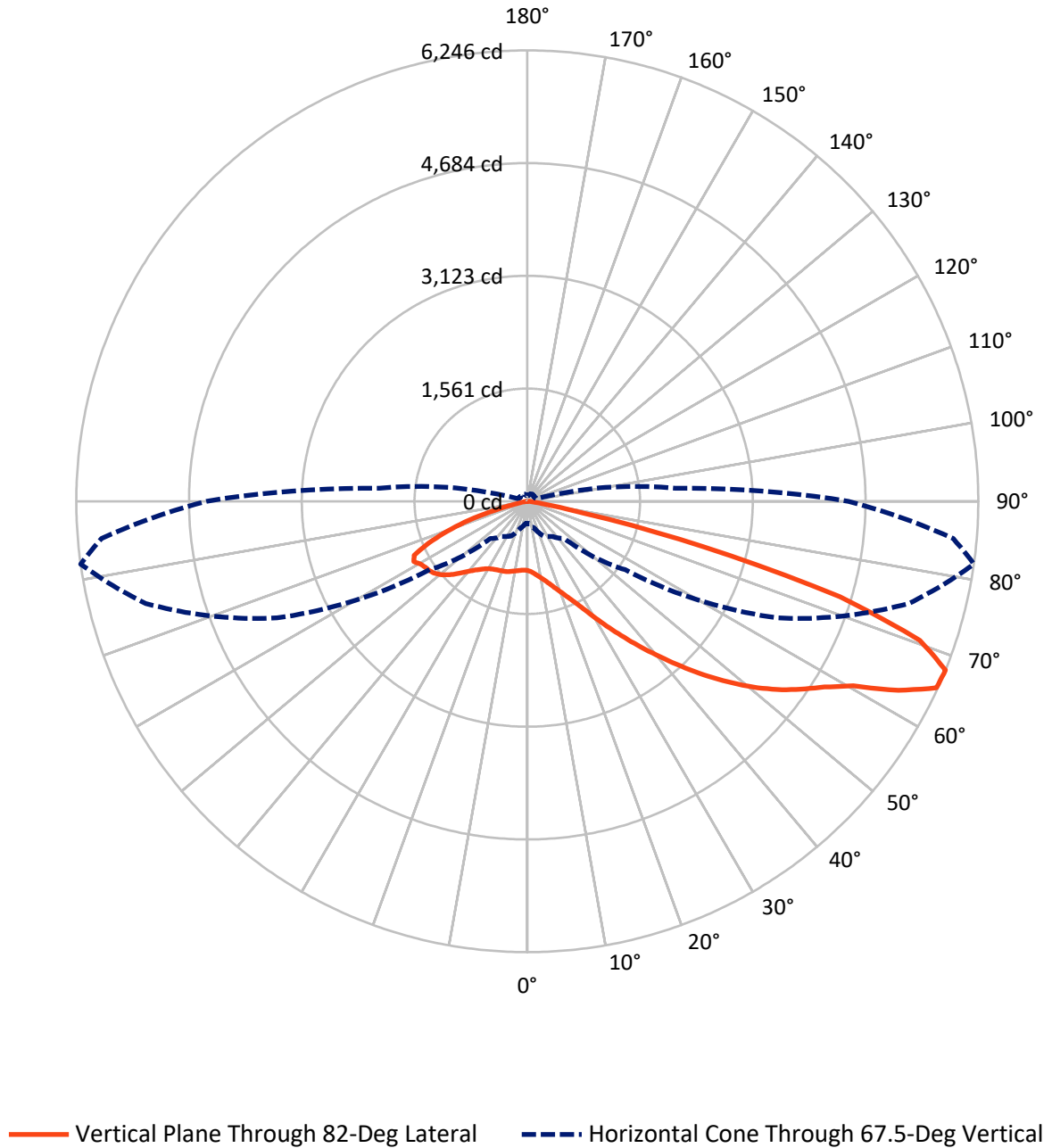
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1048.5	0.0	1048.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4739.6	0.0	4739.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	5788.0	0.0	5788.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	1.5
10°-20°	222.0	3.8
20°-30°	355.6	6.1
30°-40°	628.7	10.9
40°-50°	1101.6	19.0
50°-60°	1469.3	25.4
60°-70°	1367.8	23.6
70°-80°	525.0	9.1
80°-90°	32.6	0.6
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°	5788.0	100.0
0°-180°	5788.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939104

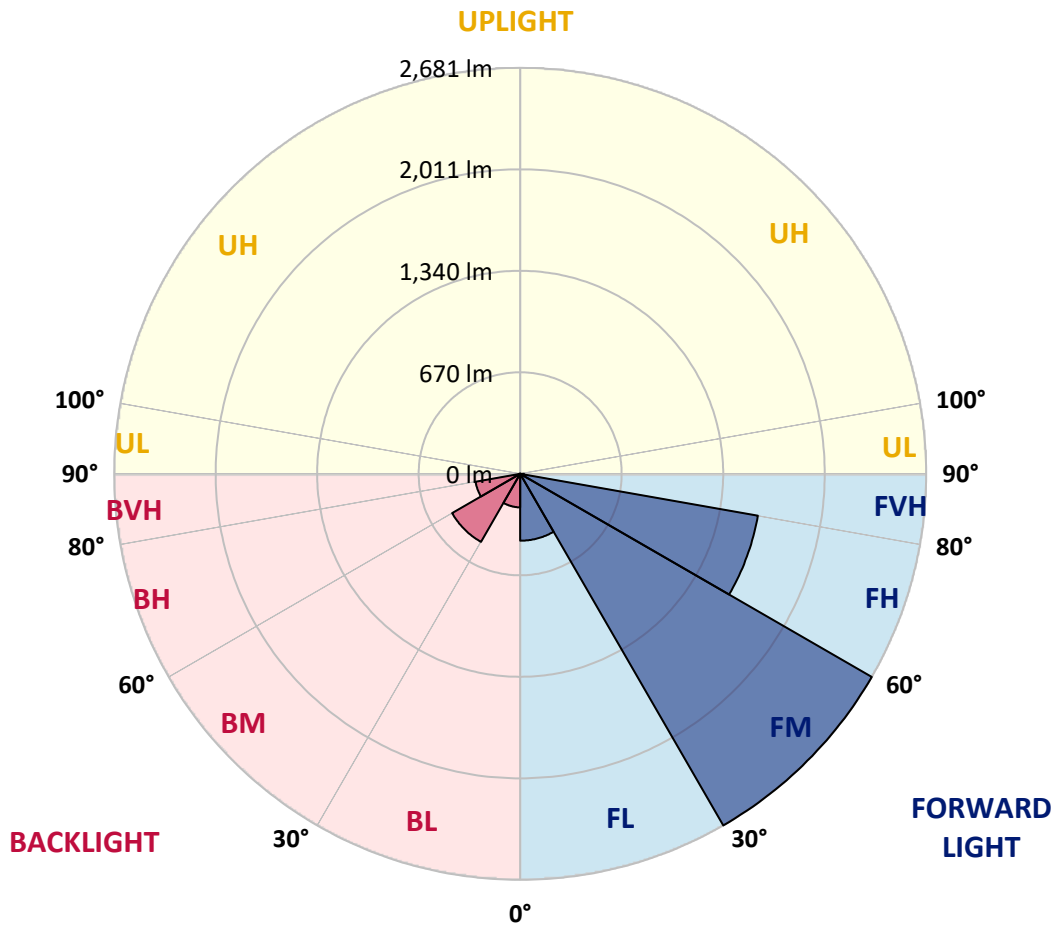
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.6	7.6			
FM (30°-60°)	2680.8	46.3			
FH (60°-80°)	1593.5	27.5			G1/1800
FVH (80°-90°)	23.7	0.4			G1/100
BL (0°-30°)	221.4	3.8	B1/500		
BM (30°-60°)	518.9	9.0	B1/1000		
BH (60°-80°)	299.2	5.2	B1/500		G1/500
BVH (80°-90°)	8.9	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



REPORT NUMBER: P939104

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9
2.5°	1013.5	1019.3	1016.0	1014.3	1011.4	1007.2	1003.9	993.5	982.6	975.5
5°	1033.9	1039.7	1039.3	1041.0	1043.1	1044.3	1043.5	1031.8	1016.4	1004.3
7.5°	1016.4	1023.1	1028.5	1036.8	1051.4	1066.8	1074.3	1071.8	1056.0	1039.3
10°	966.8	973.9	986.8	1006.4	1037.2	1070.6	1098.5	1111.4	1101.4	1083.1
12.5°	875.9	883.0	908.5	951.0	1002.6	1060.6	1113.9	1148.5	1151.0	1132.6
15°	773.9	780.9	808.0	861.4	940.1	1033.1	1122.2	1187.7	1209.7	1193.9
17.5°	710.5	716.8	737.2	780.1	862.2	978.0	1119.3	1229.3	1279.8	1267.2
20°	691.3	696.8	706.3	736.3	804.7	921.0	1100.1	1268.5	1355.2	1348.1
22.5°	711.8	716.8	719.7	733.0	775.9	883.4	1076.0	1308.5	1442.7	1443.5
25°	758.8	763.9	760.5	768.9	787.6	871.8	1066.8	1355.6	1552.7	1561.9
27.5°	836.4	836.8	828.9	828.4	831.4	889.3	1076.4	1406.0	1691.5	1708.6
30°	991.8	985.5	955.1	922.2	907.2	941.8	1103.1	1465.6	1855.2	1885.7
32.5°	1231.4	1222.2	1166.4	1087.6	1008.5	1026.4	1151.0	1533.5	2033.6	2088.6
35°	1491.4	1488.9	1430.6	1313.5	1175.2	1146.8	1228.9	1622.7	2228.2	2315.7
37.5°	1733.1	1731.9	1698.6	1560.6	1392.3	1314.8	1353.9	1739.4	2436.6	2563.3
40°	1954.0	1957.8	1924.4	1801.1	1631.5	1530.2	1523.9	1883.6	2668.3	2832.9
42.5°	2144.9	2149.0	2115.3	2024.0	1867.7	1768.6	1732.7	2060.3	2894.5	3122.5
45°	2274.5	2300.3	2295.3	2222.4	2110.3	2007.3	1983.6	2282.0	3152.5	3429.6
47.5°	2311.1	2334.9	2372.4	2382.4	2314.1	2212.8	2241.1	2549.1	3413.4	3737.2
50°	2220.7	2242.8	2320.7	2424.5	2472.0	2440.7	2491.6	2835.4	3680.5	4043.9
52.5°	2042.4	2064.9	2163.2	2327.4	2521.2	2619.5	2742.9	3117.5	3939.3	4334.3
55°	1784.4	1808.2	1934.4	2120.3	2427.4	2693.3	2952.5	3399.2	4176.4	4595.6
57.5°	1433.5	1451.0	1582.3	1842.3	2191.5	2619.9	3107.1	3706.7	4399.7	4852.3
60°	934.3	949.7	1102.2	1392.3	1800.7	2374.9	3137.9	4049.7	4696.4	5186.1
62.5°	621.3	631.7	722.2	935.1	1268.1	1904.4	2957.5	4323.5	5131.5	5767.0
65°	426.3	436.7	527.2	675.5	819.3	1259.7	2438.7	4287.2	5525.7	6228.3
67.5°	304.2	313.0	389.6	529.7	593.0	731.8	1653.1	3823.8	5469.1	6245.8
70°	217.9	222.9	286.3	412.6	471.3	439.6	919.3	2924.6	4788.5	5767.4
72.5°	152.5	154.2	198.8	314.2	379.6	320.9	437.6	1949.8	3621.7	4526.8
75°	103.3	105.4	133.8	230.4	304.6	245.0	231.7	1045.6	2126.1	2505.7
77.5°	63.3	64.2	86.3	157.5	227.9	186.7	149.2	443.0	822.6	807.6
80°	35.8	35.8	55.0	97.9	155.4	120.4	104.6	188.4	260.5	228.8
82.5°	20.0	20.4	40.0	60.8	102.9	71.3	57.5	87.1	112.5	99.6
85°	8.3	9.2	24.6	28.8	49.2	35.4	23.3	36.7	41.7	37.1
87.5°	0.8	1.3	7.5	5.4	5.8	7.1	3.3	7.1	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939104  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
958.9	0°	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9
973.0	2.5°	965.1	958.9	943.0	924.7	900.5	888.9	873.0	862.2	853.0	853.9
997.2	5°	983.9	968.0	932.6	888.4	833.4	794.3	752.6	723.8	700.5	695.5
1030.6	7.5°	1009.7	984.7	922.6	843.0	750.1	679.7	616.7	576.3	547.6	538.4
1071.0	10°	1043.1	1006.8	909.7	785.9	652.2	562.6	495.1	463.4	443.8	437.1
1118.5	12.5°	1081.8	1032.2	892.6	716.3	551.3	465.1	422.1	406.3	400.1	398.0
1176.8	15°	1130.6	1063.9	866.8	633.8	465.9	405.5	387.1	385.1	385.9	385.1
1246.8	17.5°	1188.5	1098.5	824.7	548.8	408.4	375.0	368.4	370.0	372.1	371.7
1325.2	20°	1251.8	1132.6	770.9	473.4	369.2	353.4	349.6	351.3	353.0	352.1
1415.6	22.5°	1323.9	1169.3	711.3	414.6	343.0	333.4	329.2	329.6	329.6	328.0
1530.2	25°	1410.2	1209.7	648.8	373.0	323.0	315.5	310.5	308.8	306.3	301.3
1669.4	27.5°	1513.1	1252.7	588.8	343.8	307.1	300.0	294.2	290.0	283.8	275.5
1836.5	30°	1629.0	1304.8	538.0	325.5	294.6	287.5	280.9	274.6	265.5	255.0
2028.6	32.5°	1765.2	1360.6	500.9	313.4	283.4	275.9	268.0	260.5	250.4	240.0
2244.5	35°	1927.8	1428.1	479.2	305.0	274.6	264.6	255.9	247.5	240.0	230.9
2479.1	37.5°	2104.0	1499.8	472.6	300.9	268.8	253.4	243.4	237.5	236.7	231.3
2732.9	40°	2297.0	1584.8	477.6	298.4	262.5	242.5	231.7	230.4	232.5	222.9
3004.1	42.5°	2501.2	1685.6	485.9	295.5	253.8	231.7	221.3	221.3	219.6	206.3
3290.8	45°	2722.0	1801.9	494.2	288.4	243.4	220.9	212.9	210.0	202.9	190.0
3579.2	47.5°	2944.6	1920.3	500.5	275.5	230.9	211.7	204.6	197.9	187.5	175.9
3862.2	50°	3155.8	2026.5	493.8	256.3	216.7	202.9	195.4	186.3	175.0	167.1
4130.1	52.5°	3344.6	2118.6	465.5	233.8	201.7	193.8	187.1	177.5	168.4	160.0
4371.8	55°	3508.8	2193.2	415.5	212.5	188.4	185.9	179.2	167.1	154.6	147.5
4611.4	57.5°	3666.3	2249.9	353.0	195.0	176.3	177.1	167.1	156.3	144.6	137.1
4934.4	60°	3875.9	2325.7	289.6	178.8	163.4	165.9	155.0	147.1	132.5	122.9
5488.2	62.5°	4211.0	2443.7	230.0	158.8	148.4	149.2	144.6	135.0	117.5	106.3
5898.7	65°	4476.8	2400.3	181.3	137.1	131.3	132.5	132.5	122.1	103.3	90.4
5920.8	67.5°	4446.8	2055.3	144.6	115.8	115.0	115.8	118.8	110.0	91.7	81.3
5469.9	70°	4096.4	1634.8	115.8	96.3	100.0	97.9	106.3	100.4	82.5	72.1
4240.6	72.5°	3342.5	1177.7	88.3	79.6	76.7	80.0	95.8	90.4	68.8	57.1
2246.1	75°	1953.2	628.4	65.8	62.9	55.4	66.7	85.0	77.1	52.5	42.1
688.4	77.5°	635.9	219.2	48.3	46.3	41.3	53.8	72.5	65.0	42.9	33.3
201.7	80°	170.4	66.3	32.9	30.4	26.7	40.0	57.5	51.7	30.8	21.7
86.7	82.5°	68.3	27.9	19.2	17.1	14.6	27.5	45.4	41.7	22.9	13.8
27.1	85°	22.1	9.2	7.1	5.4	6.7	17.1	27.1	28.3	16.3	7.1
4.2	87.5°	2.9	1.3	1.3	1.7	1.3	2.9	8.3	7.9	4.6	0.8
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>
958.9
845.5
684.3
529.2
432.1
396.7
384.6
370.9
351.7
327.1
300.5
274.6
254.2
240.4
230.0
230.9
223.4
206.3
189.6
175.4
165.9
159.2
146.7
136.3
121.7
105.4
89.2
79.6
70.8
55.8
40.8
32.1
21.3
13.8
5.4
0.0
0.0

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