

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: P940108

Luminaire Tested: **GALN-SB3A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940108  
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-SB3A-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

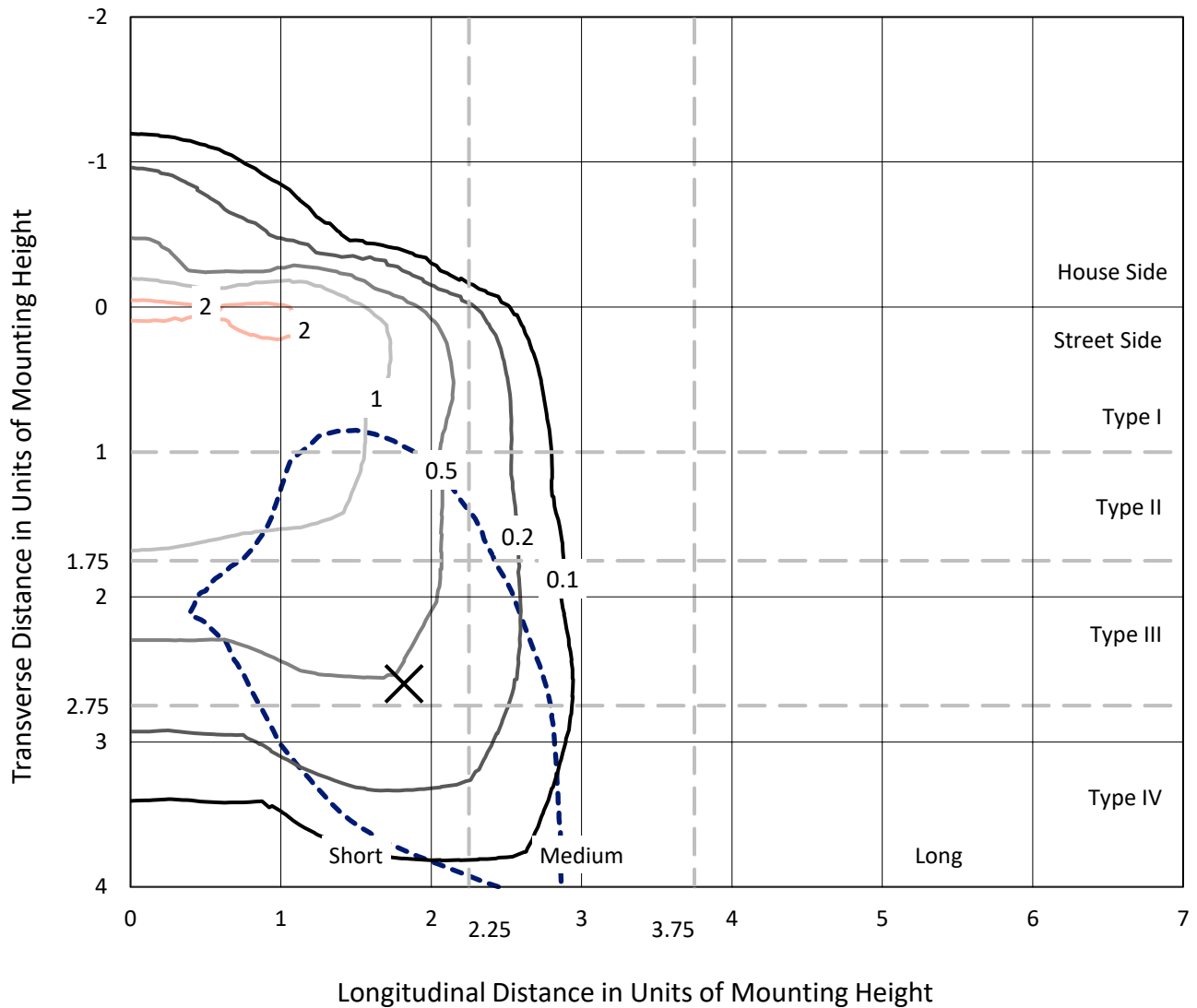
Lumens per Lamp: N/A  
Luminaire Lumens: 10190 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

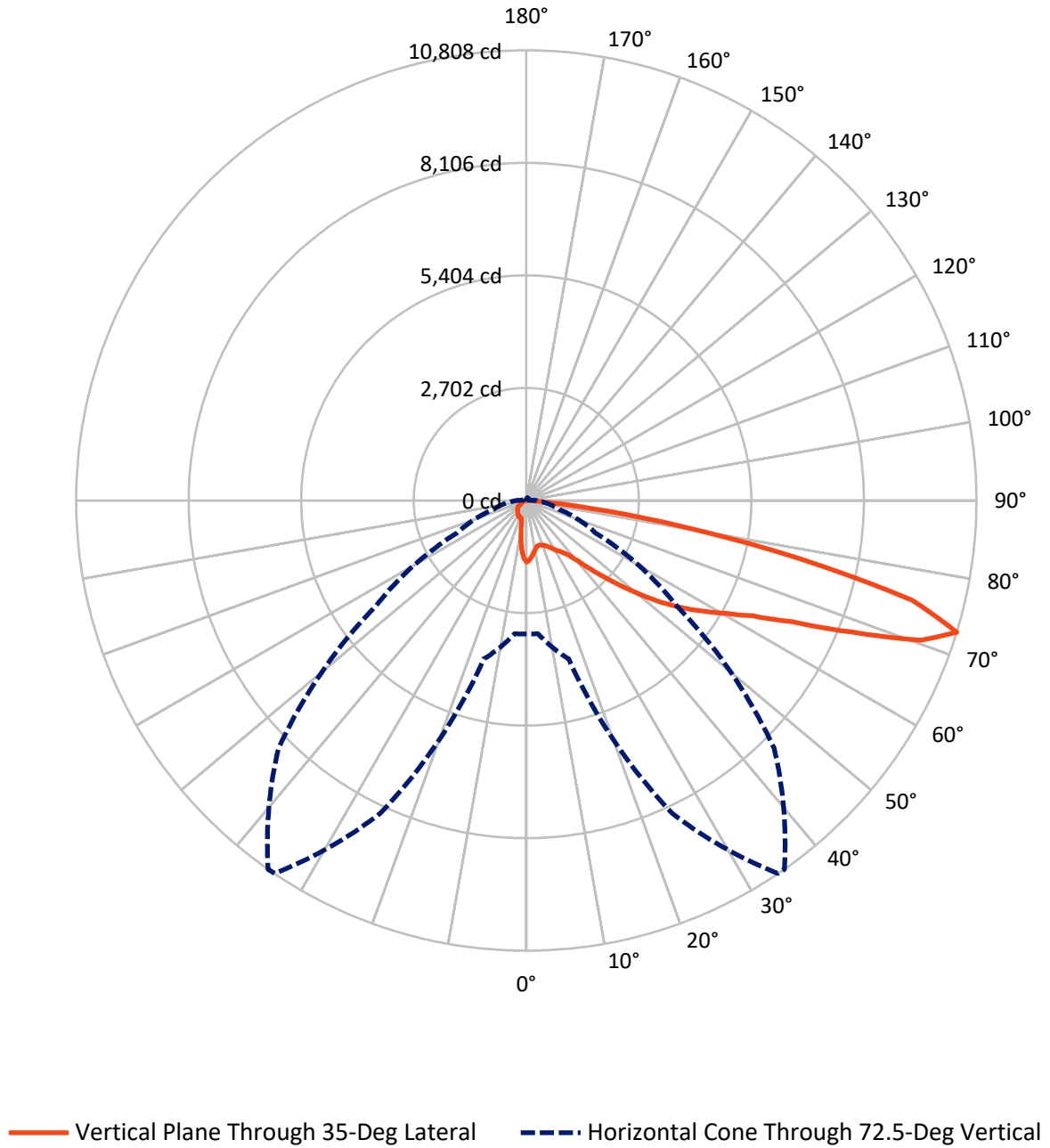
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1146.8	0.0	1146.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	9043.2	0.0	9043.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	10190.0	0.0	10190.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	1.2
10°-20°	283.9	2.8
20°-30°	461.2	4.5
30°-40°	769.5	7.6
40°-50°	1455.9	14.3
50°-60°	2313.5	22.7
60°-70°	2861.9	28.1
70°-80°	1779.0	17.5
80°-90°	143.8	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°	10190.0	100.0
0°-180°	10190.0	100.0

**Coefficient of Utilization**



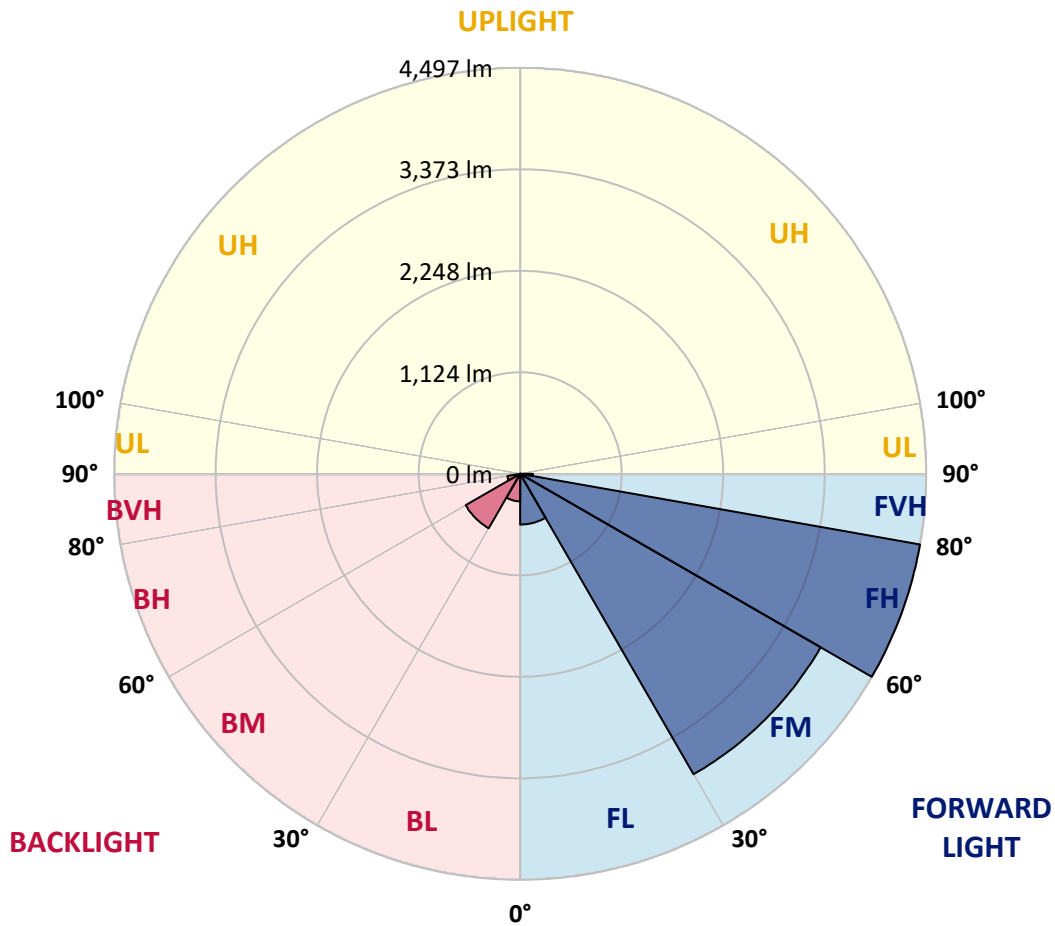
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.7	5.5			
FM (30°-60°)	3842.6	37.7			
FH (60°-80°)	4497.0	44.1			G2/5000
FVH (80°-90°)	141.8	1.4			G2/225
BL (0°-30°)	304.7	3.0	B1/500		
BM (30°-60°)	696.2	6.8	B1/1000		
BH (60°-80°)	143.9	1.4	B1/500		G1/500
BVH (80°-90°)	2.0	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°	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9
2.5°	1411.2	1423.1	1425.4	1429.1	1429.1	1433.6	1441.0	1451.5	1468.7	1477.6
5°	1300.7	1309.6	1320.8	1329.8	1347.0	1349.2	1378.3	1406.7	1446.3	1476.1
7.5°	1189.4	1199.9	1214.8	1236.5	1258.9	1265.6	1309.6	1357.4	1420.1	1476.1
10°	1111.0	1111.8	1125.2	1146.9	1182.7	1190.9	1244.7	1312.6	1391.0	1467.2
12.5°	1067.0	1072.2	1078.2	1094.6	1128.9	1134.2	1191.7	1271.5	1361.9	1461.9
15°	1067.0	1070.7	1074.4	1082.6	1110.3	1114.7	1165.5	1245.4	1347.0	1464.2
17.5°	1078.2	1084.1	1081.1	1090.9	1120.0	1123.0	1167.8	1237.9	1346.2	1478.4
20°	1105.0	1109.5	1103.5	1109.5	1138.6	1144.6	1190.9	1252.1	1358.9	1503.0
22.5°	1147.6	1149.8	1135.7	1140.1	1170.0	1177.5	1231.2	1292.5	1389.5	1542.6
25°	1201.4	1205.8	1184.2	1189.4	1217.8	1226.7	1288.7	1352.9	1438.0	1597.1
27.5°	1263.3	1265.6	1246.9	1246.2	1282.7	1295.4	1358.2	1427.6	1503.0	1665.8
30°	1334.3	1341.0	1323.1	1320.1	1366.4	1376.8	1438.8	1519.4	1598.6	1768.8
32.5°	1390.3	1395.5	1385.0	1392.5	1439.5	1447.8	1536.6	1649.3	1748.7	1915.2
35°	1470.9	1473.9	1450.0	1463.4	1517.2	1538.1	1670.3	1831.5	1937.6	2098.8
37.5°	1762.8	1762.8	1661.3	1594.8	1646.4	1665.0	1853.2	2060.8	2170.5	2345.2
40°	2166.8	2160.1	2011.5	1875.6	1868.9	1905.4	2113.8	2349.7	2471.4	2640.9
42.5°	2597.6	2587.1	2384.8	2250.4	2228.0	2240.7	2414.7	2705.9	2829.8	3001.5
45°	2979.9	2976.9	2791.7	2611.0	2570.7	2611.0	2790.2	3122.5	3211.3	3392.0
47.5°	3300.2	3300.2	3165.0	3047.1	3026.2	3050.1	3298.7	3584.7	3576.5	3807.9
50°	3669.0	3666.0	3537.6	3486.9	3508.5	3542.1	3884.1	4071.5	3954.3	4216.3
52.5°	3927.4	3945.3	3901.2	3893.0	4003.5	4061.8	4478.4	4547.8	4292.5	4603.8
55°	4132.0	4152.9	4203.6	4261.1	4473.9	4550.1	5054.1	4999.6	4575.5	4939.8
57.5°	4421.7	4391.8	4470.2	4583.7	4927.9	5019.7	5611.8	5425.9	4803.2	5212.4
60°	4773.3	4777.8	4791.2	4934.6	5381.1	5499.1	6161.4	5829.1	4949.5	5379.6
62.5°	5195.9	5202.7	5230.3	5450.5	5989.6	6100.9	6746.7	6159.1	5016.7	5332.6
65°	5166.8	5195.2	5503.6	6256.9	6914.7	7024.5	7429.9	6390.6	4915.2	4902.5
67.5°	4706.9	4753.2	5269.1	7220.1	8309.5	8431.9	8255.7	6436.1	4476.9	3812.4
70°	4103.6	4120.0	4740.5	8086.2	9924.5	10048.4	8994.9	5935.1	3397.3	2126.5
72.5°	3204.6	3208.4	3936.3	8287.1	10801.0	10807.8	8414.7	4406.0	1827.1	816.8
75°	2289.2	2266.8	2636.4	6720.6	9502.6	9578.8	6308.4	2066.7	698.1	386.0
77.5°	1227.5	1252.1	1491.8	3985.6	6564.5	6694.5	3442.1	595.8	355.4	262.8
80°	379.3	400.2	611.5	1824.8	3718.3	3796.7	1276.0	265.1	247.9	187.4
82.5°	119.5	123.9	285.2	766.8	1543.3	1579.2	369.6	150.1	169.5	123.9
85°	34.3	35.1	126.9	286.0	381.5	389.0	103.8	58.2	97.1	76.9
87.5°	3.7	11.9	47.8	47.8	33.6	32.9	11.2	12.7	27.6	9.7
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°
1476.9	0°	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9
1483.6	2.5°	1479.9	1480.6	1470.9	1454.5	1436.6	1421.6	1403.0	1388.0	1377.6	1374.6
1497.0	5°	1490.3	1485.1	1457.5	1407.4	1347.7	1296.2	1238.7	1193.1	1163.3	1150.6
1511.2	7.5°	1506.0	1491.1	1430.6	1332.0	1217.8	1116.2	1013.2	933.3	882.5	857.2
1524.7	10°	1519.4	1489.6	1385.8	1223.0	1048.3	894.5	755.6	659.3	605.5	580.1
1540.3	12.5°	1532.1	1488.8	1327.5	1093.8	857.2	669.0	539.8	492.0	477.1	471.9
1565.7	15°	1556.0	1491.1	1254.4	946.0	666.8	505.5	458.4	457.7	460.7	459.2
1604.5	17.5°	1588.9	1493.3	1171.5	789.2	514.4	445.7	443.5	450.2	454.7	452.5
1653.1	20°	1631.4	1502.3	1083.4	633.9	442.0	430.8	436.0	442.0	445.7	442.0
1718.0	22.5°	1691.2	1517.9	987.1	509.2	418.9	421.9	426.3	433.1	436.8	431.6
1800.9	25°	1764.3	1542.6	892.2	442.8	407.7	411.4	418.1	425.6	430.1	424.8
1905.4	27.5°	1859.2	1582.2	804.9	427.8	396.5	398.7	408.4	419.6	425.6	418.9
2054.0	30°	1996.5	1647.1	729.5	434.5	389.8	384.5	398.0	413.6	420.4	414.4
2256.4	32.5°	2178.7	1738.9	683.2	445.0	386.8	368.1	380.8	401.0	412.2	408.4
2520.7	35°	2417.7	1878.6	665.3	456.9	384.5	350.9	359.9	381.5	401.0	404.7
2853.7	37.5°	2707.4	2072.7	670.5	462.2	377.8	336.7	341.2	359.9	385.3	397.2
3228.5	40°	3036.6	2298.9	700.4	456.9	370.3	324.8	325.5	339.7	362.1	380.0
3631.7	42.5°	3376.3	2563.2	755.6	437.5	363.6	314.3	312.1	321.8	336.7	349.4
4034.1	45°	3699.6	2835.0	810.1	410.7	355.4	303.9	298.7	302.4	305.4	310.6
4426.1	47.5°	3981.9	3026.2	794.4	386.0	344.2	291.9	283.0	281.5	272.5	271.8
4776.3	50°	4176.8	3068.0	705.6	361.4	327.8	278.5	264.3	255.4	239.7	232.2
5038.4	52.5°	4238.7	2903.0	576.4	336.7	300.9	260.6	240.4	226.2	206.8	200.1
5189.2	55°	4156.6	2579.7	460.7	306.9	263.6	236.7	214.3	195.6	179.9	171.7
5205.6	57.5°	3955.7	2168.3	364.4	271.8	224.0	209.8	187.4	168.7	155.3	147.1
5023.5	60°	3622.7	1721.8	288.2	230.0	191.1	180.7	157.5	145.6	133.7	123.9
4553.1	62.5°	3117.3	1229.0	226.2	182.2	159.8	147.8	134.4	125.4	111.3	97.8
3707.1	65°	2432.6	751.9	174.7	133.7	128.4	122.5	114.2	106.0	88.9	75.4
2418.4	67.5°	1534.4	356.2	124.7	100.8	101.5	98.6	94.8	88.1	75.4	63.5
1083.4	70°	675.7	172.5	82.1	76.9	75.4	75.4	78.4	76.2	64.2	53.0
376.3	72.5°	230.0	92.6	61.2	58.2	54.5	53.8	65.7	63.5	51.5	41.1
187.4	75°	120.2	62.0	44.8	41.8	32.9	39.6	52.3	49.3	36.6	26.9
123.9	77.5°	78.4	44.1	30.6	26.9	18.7	26.1	38.8	34.3	21.7	13.4
81.4	80°	49.3	29.1	17.9	12.7	9.0	14.2	20.9	14.9	8.2	3.0
47.8	82.5°	26.1	14.9	6.7	4.5	3.7	4.5	5.2	3.7	1.5	0.0
24.6	85°	10.5	5.2	2.2	1.5	0.7	0.0	1.5	0.7	0.0	0.0
4.5	87.5°	3.7	0.7	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>
1476.9
1379.8
1155.1
860.9
580.9
470.4
458.4
451.7
441.3
430.8
424.1
418.9
413.6
408.4
404.7
400.2
386.0
354.7
313.6
271.0
233.0
199.4
171.7
145.6
121.7
95.6
73.2
62.0
50.8
38.8
24.6
11.9
2.2
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