

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: P939438

Luminaire Tested: **GALN-SB2A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939438
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-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 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: 7186 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

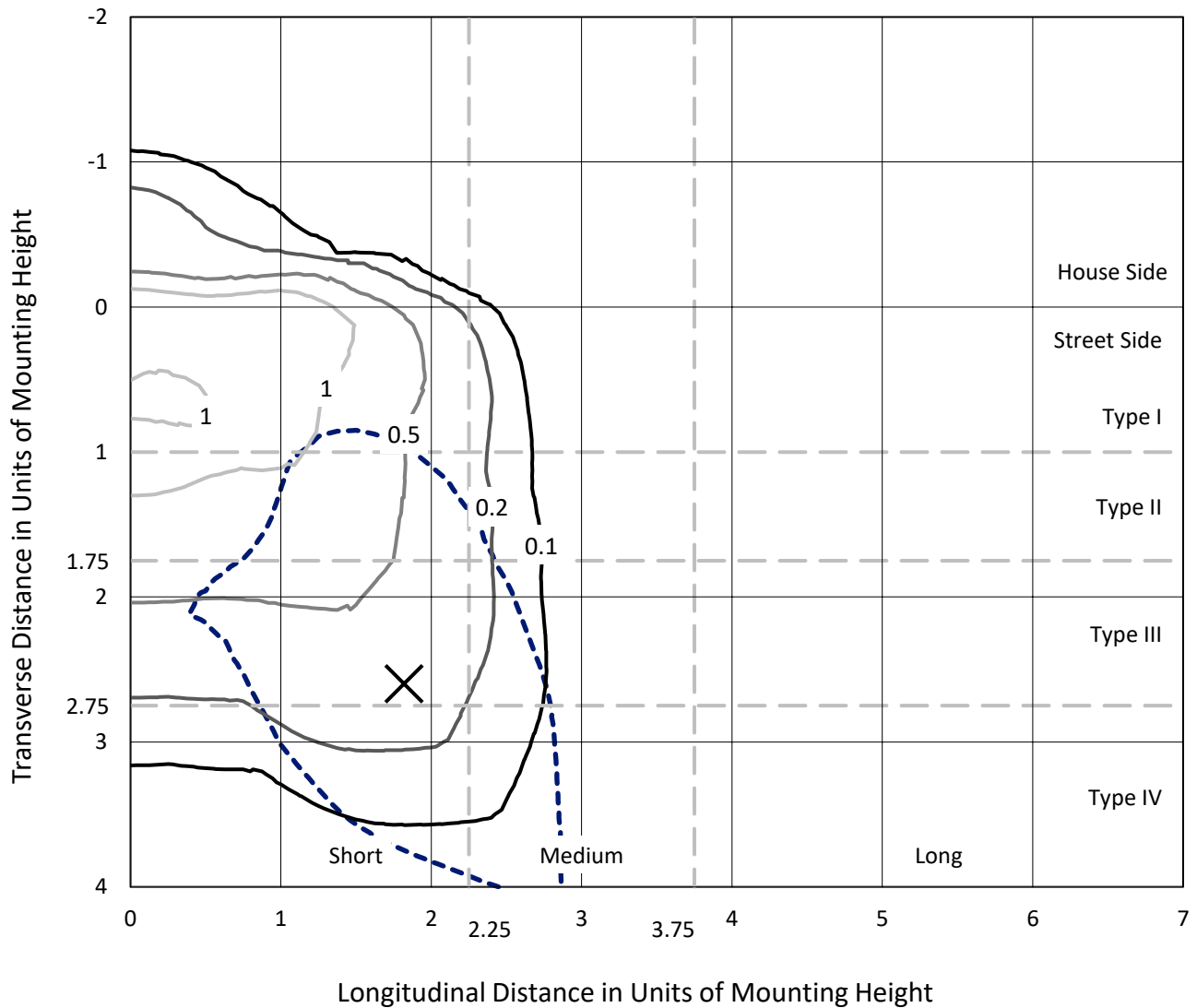
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

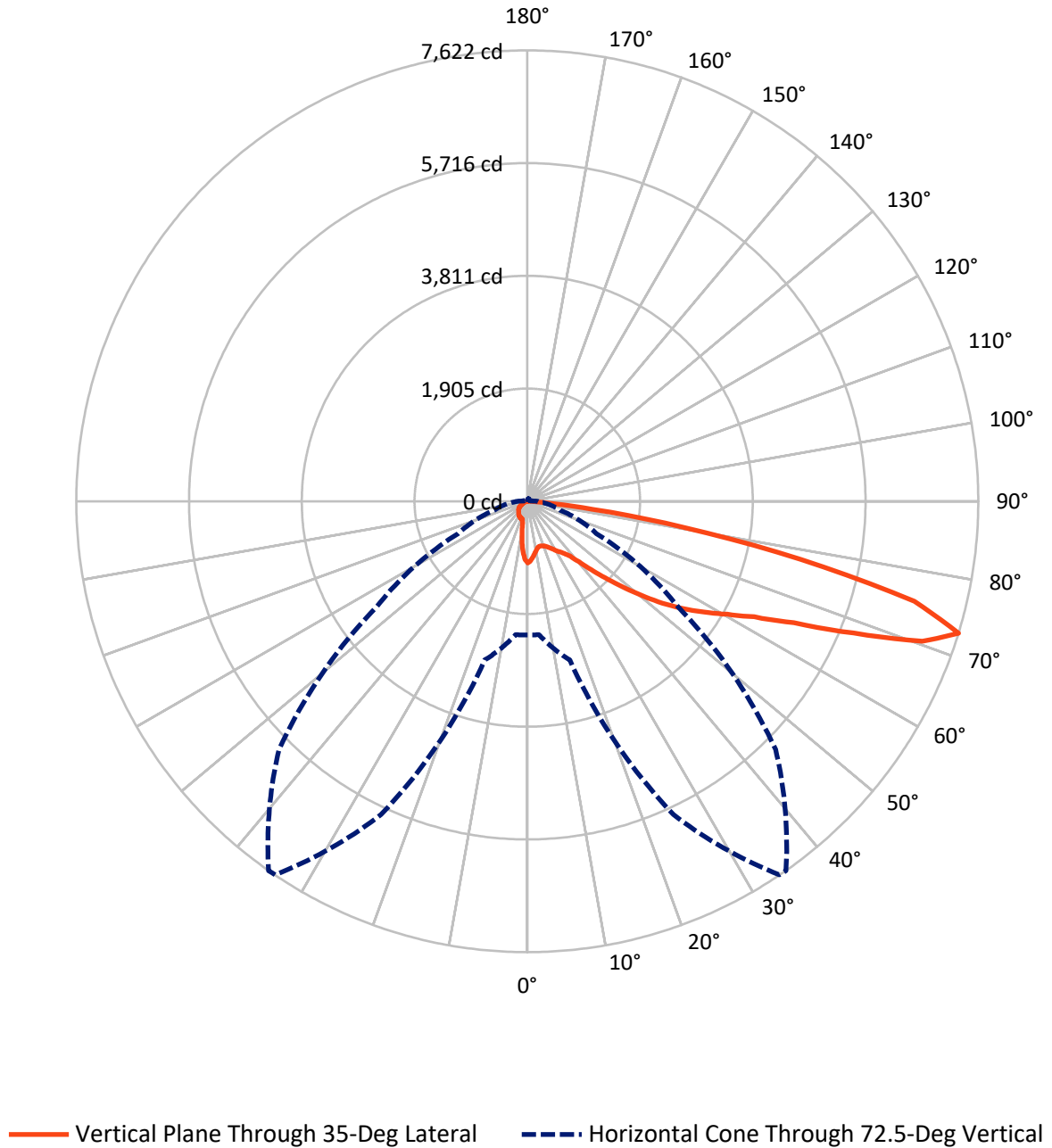
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	808.8	0.0	808.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6377.2	0.0	6377.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	7186.0	0.0	7186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	1.2
10°-20°	200.2	2.8
20°-30°	325.2	4.5
30°-40°	542.7	7.6
40°-50°	1026.7	14.3
50°-60°	1631.5	22.7
60°-70°	2018.2	28.1
70°-80°	1254.5	17.5
80°-90°	101.4	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°	7186.0	100.0
0°-180°	7186.0	100.0

Coefficient of Utilization



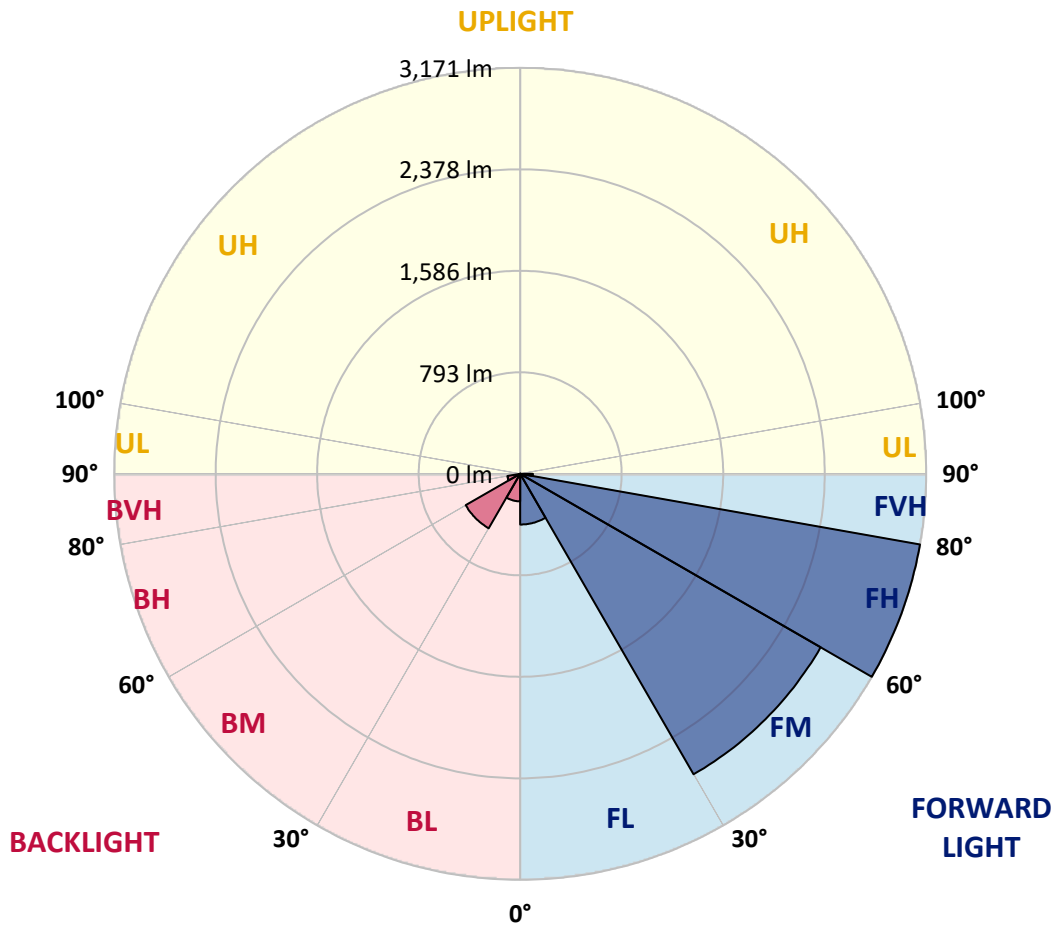
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.1	5.5			
FM (30°-60°)	2709.8	37.7			
FH (60°-80°)	3171.3	44.1			G2/5000
FVH (80°-90°)	100.0	1.4			G2/225
BL (0°-30°)	214.9	3.0	B1/500		
BM (30°-60°)	491.0	6.8	B1/1000		
BH (60°-80°)	101.5	1.4	B0/110		G0/110
BVH (80°-90°)	1.4	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°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	995.2	1003.6	1005.2	1007.8	1007.8	1011.0	1016.2	1023.6	1035.7	1042.0
5°	917.2	923.5	931.4	937.8	949.9	951.5	972.0	992.0	1019.9	1041.0
7.5°	838.8	846.1	856.7	871.9	887.7	892.5	923.5	957.2	1001.5	1041.0
10°	783.5	784.0	793.5	808.8	834.0	839.8	877.7	925.7	980.9	1034.6
12.5°	752.4	756.1	760.3	771.9	796.1	799.8	840.4	896.7	960.4	1031.0
15°	752.4	755.1	757.7	763.5	783.0	786.1	821.9	878.3	949.9	1032.5
17.5°	760.3	764.5	762.4	769.3	789.8	791.9	823.5	873.0	949.3	1042.5
20°	779.3	782.4	778.2	782.4	803.0	807.2	839.8	883.0	958.3	1059.9
22.5°	809.3	810.9	800.9	804.0	825.1	830.4	868.3	911.4	979.9	1087.8
25°	847.2	850.4	835.1	838.8	858.8	865.1	908.8	954.1	1014.1	1126.3
27.5°	890.9	892.5	879.3	878.8	904.6	913.5	957.8	1006.7	1059.9	1174.7
30°	940.9	945.7	933.0	930.9	963.6	970.9	1014.6	1071.5	1127.3	1247.4
32.5°	980.4	984.1	976.7	982.0	1015.2	1021.0	1083.6	1163.1	1233.2	1350.6
35°	1037.3	1039.4	1022.5	1032.0	1069.9	1084.7	1177.9	1291.6	1366.4	1480.1
37.5°	1243.2	1243.2	1171.5	1124.7	1161.0	1174.2	1306.9	1453.2	1530.6	1653.9
40°	1528.0	1523.3	1418.5	1322.7	1317.9	1343.7	1490.6	1657.0	1742.8	1862.4
42.5°	1831.8	1824.5	1681.8	1587.0	1571.2	1580.1	1702.8	1908.2	1995.6	2116.7
45°	2101.4	2099.3	1968.7	1841.3	1812.9	1841.3	1967.7	2202.0	2264.6	2392.1
47.5°	2327.3	2327.3	2232.0	2148.8	2134.1	2150.9	2326.2	2527.9	2522.1	2685.3
50°	2587.4	2585.3	2494.7	2458.9	2474.2	2497.9	2739.1	2871.2	2788.5	2973.4
52.5°	2769.6	2782.2	2751.2	2745.4	2823.3	2864.4	3158.2	3207.1	3027.1	3246.6
55°	2913.9	2928.6	2964.4	3005.0	3155.0	3208.7	3564.1	3525.7	3226.6	3483.6
57.5°	3118.2	3097.1	3152.4	3232.4	3475.2	3539.9	3957.5	3826.4	3387.2	3675.8
60°	3366.2	3369.3	3378.8	3479.9	3794.8	3878.0	4345.0	4110.7	3490.4	3793.7
62.5°	3664.2	3668.9	3688.4	3843.7	4223.9	4302.3	4757.8	4343.4	3537.8	3760.5
65°	3643.6	3663.7	3881.1	4412.4	4876.3	4953.7	5239.6	4506.6	3466.2	3457.2
67.5°	3319.3	3351.9	3715.8	5091.6	5859.8	5946.2	5821.9	4538.8	3157.1	2688.5
70°	2893.9	2905.4	3343.0	5702.4	6998.7	7086.1	6343.2	4185.5	2395.7	1499.6
72.5°	2259.9	2262.5	2775.9	5844.0	7616.9	7621.6	5934.1	3107.1	1288.4	576.0
75°	1614.4	1598.6	1859.2	4739.4	6701.3	6755.0	4448.7	1457.5	492.3	272.2
77.5°	865.6	883.0	1052.0	2810.7	4629.3	4720.9	2427.3	420.2	250.6	185.3
80°	267.5	282.2	431.2	1286.9	2622.2	2677.4	899.9	186.9	174.8	132.2
82.5°	84.2	87.4	201.1	540.8	1088.4	1113.6	260.6	105.8	119.5	87.4
85°	24.2	24.7	89.5	201.7	269.1	274.3	73.2	41.1	68.4	54.2
87.5°	2.6	8.4	33.7	33.7	23.7	23.2	7.9	9.0	19.5	6.8
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°
1041.5	0°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
1046.2	2.5°	1043.6	1044.1	1037.3	1025.7	1013.1	1002.5	989.4	978.8	971.5	969.4
1055.7	5°	1051.0	1047.3	1027.8	992.5	950.4	914.1	873.5	841.4	820.3	811.4
1065.7	7.5°	1062.0	1051.5	1008.8	939.3	858.8	787.2	714.5	658.2	622.4	604.5
1075.2	10°	1071.5	1050.4	977.3	862.5	739.3	630.8	532.9	464.9	427.0	409.1
1086.2	12.5°	1080.5	1049.9	936.2	771.4	604.5	471.8	380.7	347.0	336.5	332.8
1104.2	15°	1097.3	1051.5	884.6	667.1	470.2	356.5	323.3	322.8	324.9	323.8
1131.5	17.5°	1120.5	1053.1	826.1	556.6	362.8	314.3	312.8	317.5	320.7	319.1
1165.8	20°	1150.5	1059.4	764.0	447.0	311.7	303.8	307.5	311.7	314.3	311.7
1211.6	22.5°	1192.6	1070.5	696.1	359.1	295.4	297.5	300.7	305.4	308.0	304.3
1270.0	25°	1244.2	1087.8	629.2	312.2	287.5	290.1	294.9	300.1	303.3	299.6
1343.7	27.5°	1311.1	1115.7	567.6	301.7	279.6	281.2	288.0	295.9	300.1	295.4
1448.5	30°	1408.0	1161.5	514.4	306.4	274.9	271.2	280.6	291.7	296.4	292.2
1591.2	32.5°	1536.4	1226.3	481.8	313.8	272.7	259.6	268.5	282.8	290.6	288.0
1777.6	35°	1704.9	1324.8	469.1	322.2	271.2	247.5	253.8	269.1	282.8	285.4
2012.4	37.5°	1909.2	1461.7	472.8	325.9	266.4	237.5	240.6	253.8	271.7	280.1
2276.8	40°	2141.4	1621.2	493.9	322.2	261.2	229.0	229.6	239.6	255.4	268.0
2561.1	42.5°	2381.0	1807.6	532.9	308.6	256.4	221.7	220.1	226.9	237.5	246.4
2844.9	45°	2609.0	1999.3	571.3	289.6	250.6	214.3	210.6	213.2	215.4	219.0
3121.3	47.5°	2808.0	2134.1	560.2	272.2	242.7	205.9	199.6	198.5	192.2	191.7
3368.3	50°	2945.5	2163.5	497.6	254.8	231.2	196.4	186.4	180.1	169.0	163.8
3553.1	52.5°	2989.2	2047.2	406.5	237.5	212.2	183.8	169.5	159.5	145.9	141.1
3659.4	55°	2931.2	1819.2	324.9	216.4	185.9	166.9	151.1	138.0	126.9	121.1
3671.0	57.5°	2789.6	1529.1	257.0	191.7	158.0	148.0	132.2	119.0	109.5	103.7
3542.5	60°	2554.8	1214.2	203.2	162.2	134.8	127.4	111.1	102.7	94.3	87.4
3210.8	62.5°	2198.3	866.7	159.5	128.5	112.7	104.3	94.8	88.5	78.5	69.0
2614.3	65°	1715.5	530.2	123.2	94.3	90.6	86.4	80.6	74.8	62.7	53.2
1705.5	67.5°	1082.0	251.2	87.9	71.1	71.6	69.5	66.9	62.1	53.2	44.8
764.0	70°	476.5	121.6	57.9	54.2	53.2	53.2	55.3	53.7	45.3	37.4
265.4	72.5°	162.2	65.3	43.2	41.1	38.4	37.9	46.3	44.8	36.3	29.0
132.2	75°	84.8	43.7	31.6	29.5	23.2	27.9	36.9	34.8	25.8	19.0
87.4	77.5°	55.3	31.1	21.6	19.0	13.2	18.4	27.4	24.2	15.3	9.5
57.4	80°	34.8	20.5	12.6	9.0	6.3	10.0	14.7	10.5	5.8	2.1
33.7	82.5°	18.4	10.5	4.7	3.2	2.6	3.2	3.7	2.6	1.1	0.0
17.4	85°	7.4	3.7	1.6	1.1	0.5	0.0	1.1	0.5	0.0	0.0
3.2	87.5°	2.6	0.5	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>
1041.5
973.0
814.6
607.1
409.6
331.7
323.3
318.6
311.2
303.8
299.1
295.4
291.7
288.0
285.4
282.2
272.2
250.1
221.1
191.1
164.3
140.6
121.1
102.7
85.8
67.4
51.6
43.7
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