

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: P944921

Luminaire Tested: **GALN-SB1A-740-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1A-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3823 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

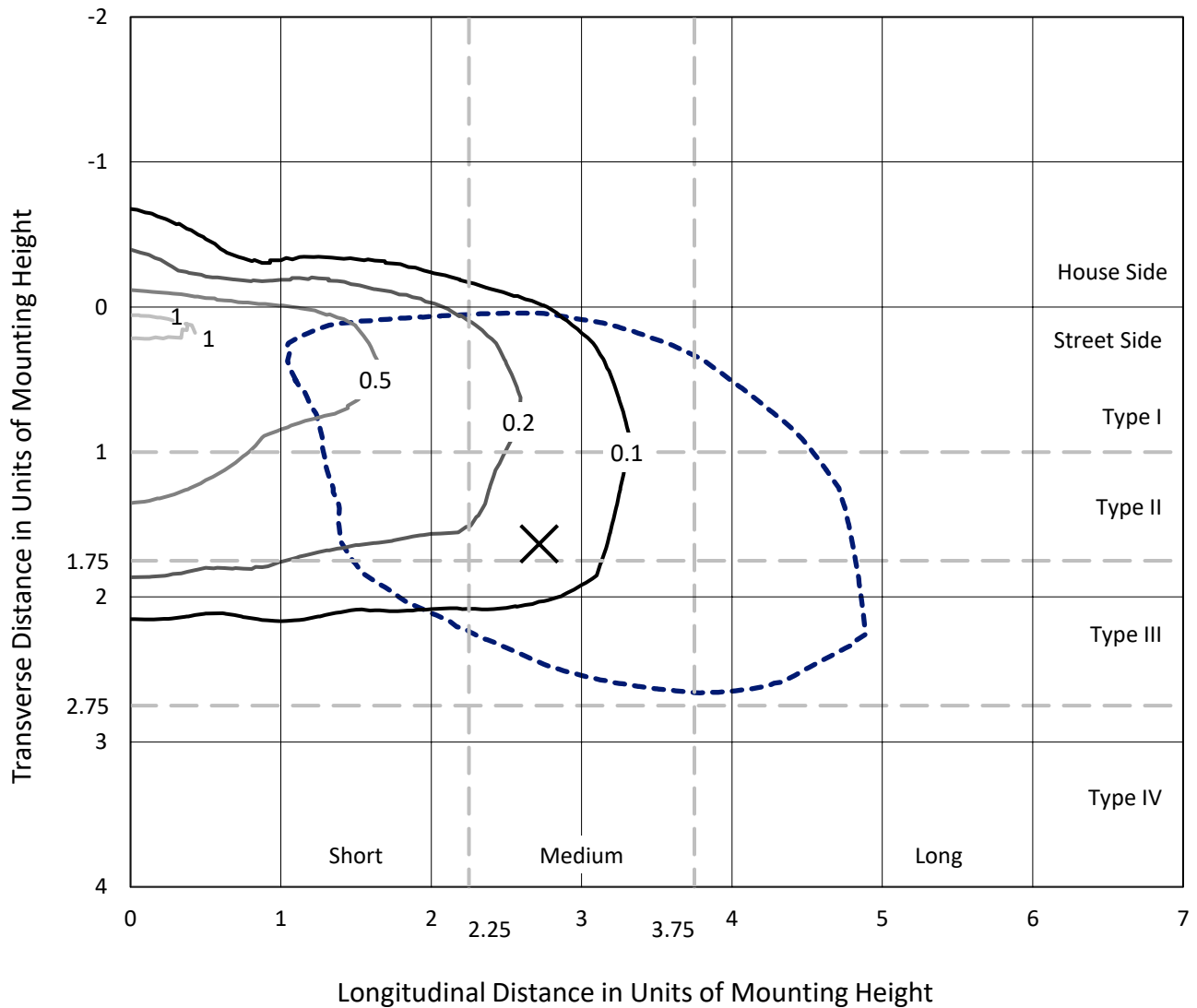
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

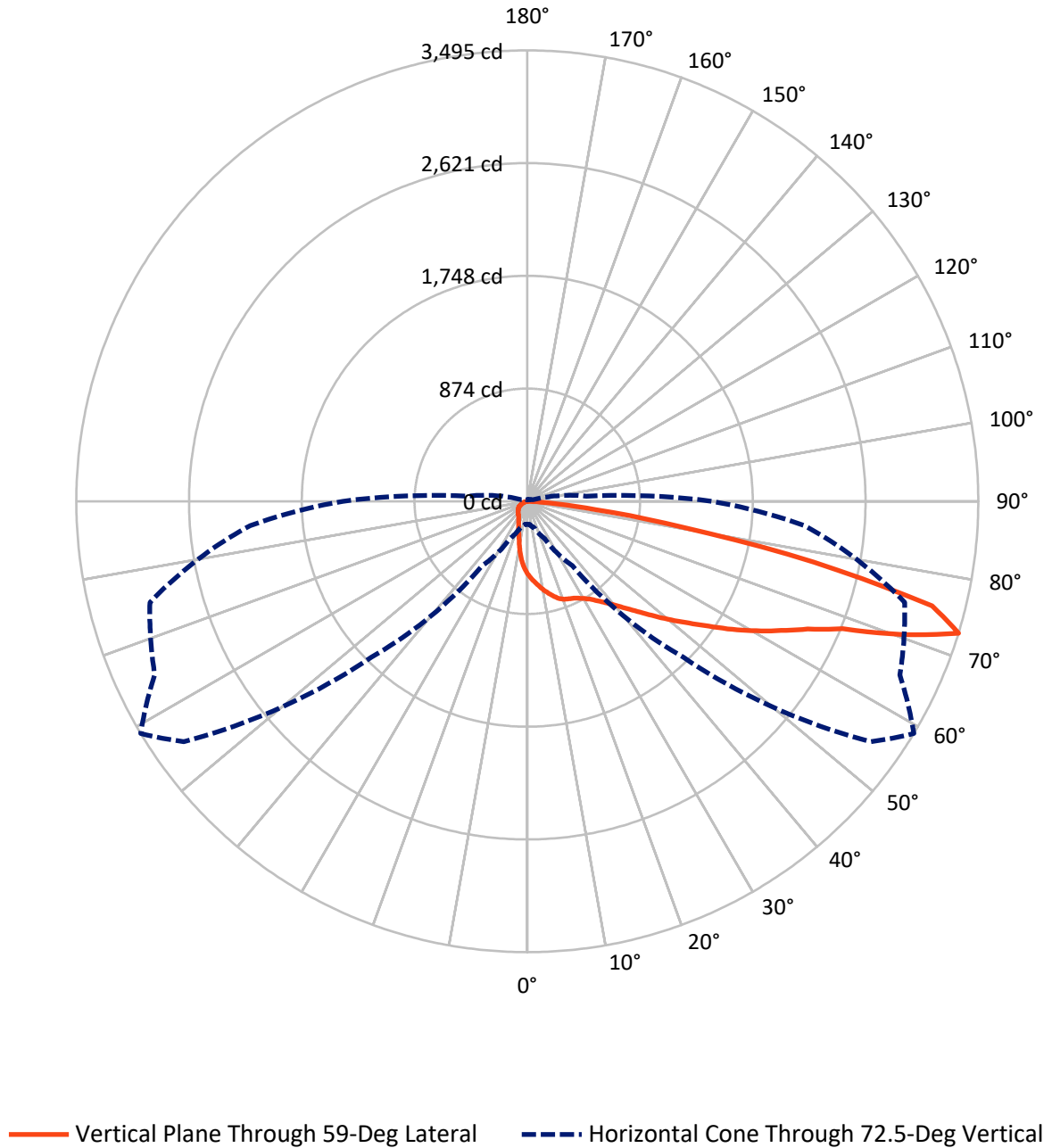
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.8	0.0	403.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3419.2	0.0	3419.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	3823.0	0.0	3823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	1.3
10°-20°	135.9	3.6
20°-30°	215.3	5.6
30°-40°	345.5	9.0
40°-50°	551.9	14.4
50°-60°	799.1	20.9
60°-70°	948.3	24.8
70°-80°	704.0	18.4
80°-90°	72.0	1.9
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°	3823.0	100.0
0°-180°	3823.0	100.0

Coefficient of Utilization



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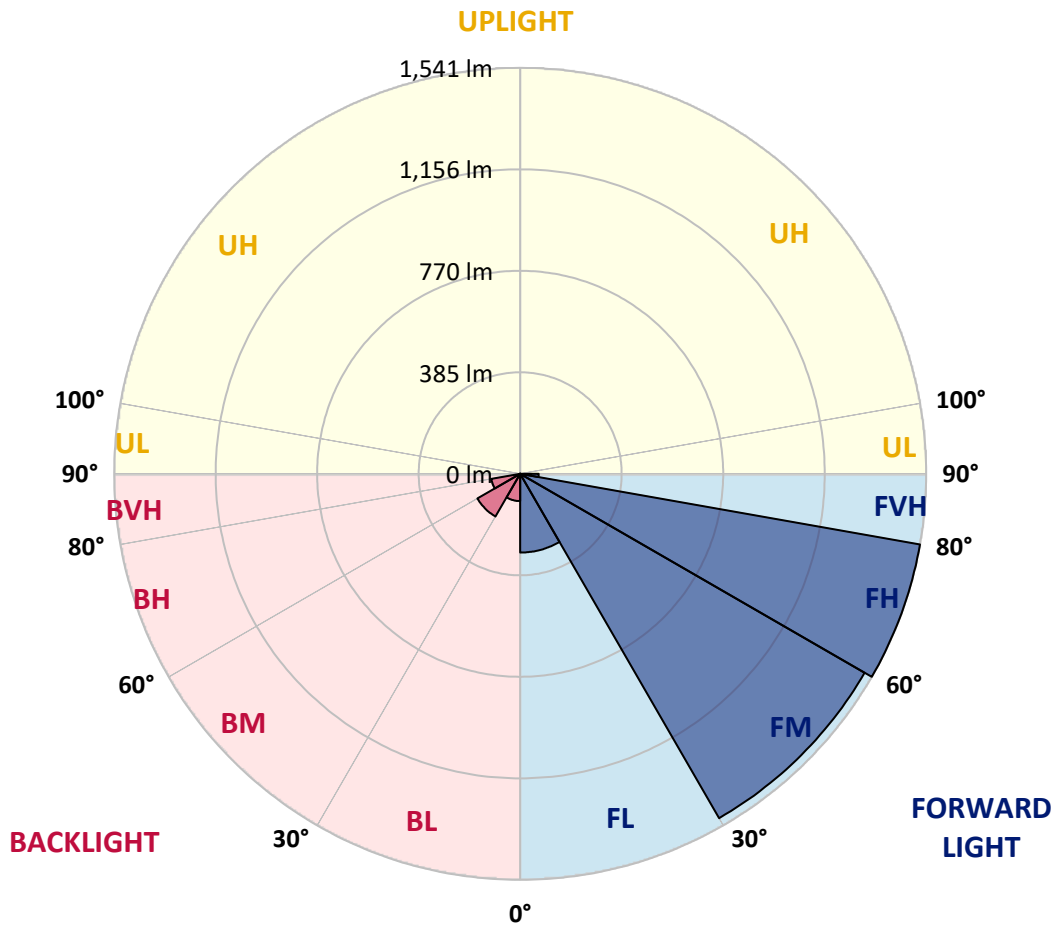
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.9	7.8			
FM (30°-60°)	1509.3	39.5			
FH (60°-80°)	1540.9	40.3			G1/1800
FVH (80°-90°)	70.2	1.8			G1/100
BL (0°-30°)	103.4	2.7	B0/110		
BM (30°-60°)	187.2	4.9	B0/220		
BH (60°-80°)	111.3	2.9	B1/500		G1/500
BVH (80°-90°)	1.8	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
2.5°	627.2	623.7	624.2	618.2	614.0	609.5	600.8	599.5	593.3	582.3
5°	681.9	679.6	677.6	670.9	662.2	651.2	636.5	631.2	619.7	600.8
7.5°	721.8	719.1	720.1	713.3	706.4	694.1	673.9	664.2	648.9	620.0
10°	729.6	728.1	734.6	737.1	737.1	729.3	709.6	699.9	677.6	640.7
12.5°	686.1	686.4	702.6	722.1	747.5	754.8	741.5	731.1	709.1	662.7
15°	635.5	635.7	651.4	676.4	718.1	759.8	770.2	763.5	740.8	686.4
17.5°	605.0	603.8	614.3	634.7	678.4	737.1	787.7	792.2	773.7	712.6
20°	600.8	598.5	604.0	614.3	645.5	708.6	789.7	810.9	807.7	742.3
22.5°	626.7	623.2	620.2	620.7	634.0	684.9	784.7	821.4	842.6	778.0
25°	678.1	672.7	662.9	650.4	647.7	679.9	781.2	832.9	875.1	823.7
27.5°	741.0	733.3	714.6	695.9	679.9	693.9	788.5	851.1	911.8	876.8
30°	810.2	800.7	782.0	746.5	721.1	725.1	805.7	875.1	958.7	937.0
32.5°	911.8	889.8	857.1	802.9	769.2	758.8	831.6	905.5	1016.8	1017.1
35°	998.9	986.6	953.7	886.3	817.2	803.4	865.8	948.5	1097.5	1123.2
37.5°	1056.0	1039.3	1010.4	959.7	891.6	849.4	911.5	1001.1	1182.8	1244.0
40°	1119.9	1103.5	1065.0	1017.3	977.9	928.2	969.2	1061.8	1276.4	1368.0
42.5°	1197.1	1175.6	1130.2	1078.7	1037.6	1032.1	1044.6	1137.4	1372.5	1502.8
45°	1287.7	1267.4	1215.3	1150.4	1114.2	1104.5	1139.4	1225.5	1479.6	1650.6
47.5°	1372.5	1349.1	1292.9	1233.7	1193.6	1162.9	1240.2	1329.6	1600.9	1805.1
50°	1444.7	1420.7	1369.3	1306.1	1278.9	1238.7	1339.3	1445.6	1721.2	1962.1
52.5°	1494.1	1472.9	1412.5	1369.5	1351.1	1330.8	1455.4	1568.7	1841.0	2105.8
55°	1482.8	1463.9	1410.7	1407.7	1406.5	1427.7	1594.2	1708.2	1963.1	2241.9
57.5°	1447.1	1425.7	1359.3	1405.0	1449.1	1514.0	1744.4	1873.2	2096.8	2370.1
60°	1342.1	1334.6	1294.1	1399.7	1467.1	1598.7	1916.1	2038.9	2241.6	2483.0
62.5°	1119.7	1126.2	1125.9	1410.7	1499.6	1695.0	2072.1	2206.7	2383.1	2591.5
65°	838.4	860.9	889.6	1311.9	1543.0	1867.0	2258.6	2388.6	2526.9	2717.8
67.5°	563.3	581.3	600.8	1076.2	1413.7	2047.7	2568.3	2638.0	2699.1	2857.9
70°	322.5	328.2	355.4	672.2	1089.7	1997.8	3072.8	3098.0	2955.9	3030.3
72.5°	180.7	178.7	214.7	319.0	609.0	1710.7	3249.5	3495.3	3185.8	3027.6
75°	120.8	121.1	147.8	201.2	237.4	1197.6	2800.2	3241.0	3048.0	2684.6
77.5°	82.4	85.1	108.6	155.5	109.8	584.3	1852.5	2270.3	2467.7	2073.1
80°	35.7	35.9	71.6	111.6	74.1	185.9	960.4	1216.3	1547.7	1164.1
82.5°	18.5	21.0	45.7	72.1	46.7	65.1	453.8	531.4	649.4	341.7
85°	6.5	7.7	28.2	35.4	23.5	23.2	158.0	161.0	137.5	51.4
87.5°	0.0	1.2	11.0	8.7	3.0	2.7	18.7	15.7	12.5	7.2
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°
565.3	0°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
571.1	2.5°	565.8	559.1	548.1	534.6	518.9	510.4	498.2	490.7	484.0	484.2
578.8	5°	566.6	555.3	527.4	497.7	464.7	440.5	413.6	394.6	380.1	376.6
586.8	7.5°	568.8	549.9	504.2	454.8	399.8	359.2	322.0	298.5	285.3	281.8
595.0	10°	571.8	543.9	478.0	402.3	334.2	285.3	254.3	239.4	233.4	228.9
605.5	12.5°	574.3	537.6	445.0	348.2	275.8	237.6	214.2	201.7	196.4	193.2
617.7	15°	578.6	529.4	409.3	297.8	236.4	205.2	183.0	173.7	172.2	172.7
631.2	17.5°	582.8	521.4	369.4	258.3	207.4	176.7	163.2	161.7	163.7	165.7
646.7	20°	587.5	509.9	329.0	228.6	180.7	157.0	153.5	154.5	155.5	159.0
667.9	22.5°	594.5	495.4	293.5	203.4	158.5	147.5	145.8	146.5	147.3	150.8
695.9	25°	604.5	480.0	264.8	180.2	144.5	139.8	138.0	138.0	139.0	142.3
728.3	27.5°	615.0	458.0	241.6	158.7	136.3	131.3	128.3	128.3	129.5	133.3
769.0	30°	626.7	438.0	223.4	142.8	129.3	122.8	118.8	117.8	119.3	124.0
827.9	32.5°	647.9	425.1	210.4	135.3	123.0	115.1	109.6	106.8	108.3	113.8
910.3	35°	680.1	422.1	201.4	131.5	117.1	108.1	100.3	96.1	97.3	103.1
1011.9	37.5°	717.8	428.3	192.7	126.5	111.3	101.3	91.1	85.6	87.6	92.8
1127.9	40°	772.0	454.3	185.9	122.8	105.6	93.3	81.9	76.4	79.6	84.1
1248.7	42.5°	837.4	500.4	184.2	119.3	98.6	84.9	73.4	69.4	71.9	76.1
1370.8	45°	918.5	559.3	192.2	114.8	90.9	76.6	66.6	64.4	65.1	69.4
1486.1	47.5°	1005.6	619.7	214.2	110.8	84.1	69.9	61.4	59.4	58.9	62.9
1591.4	50°	1093.7	673.4	240.1	107.8	79.4	64.4	57.4	54.9	53.7	56.2
1695.5	52.5°	1180.8	716.1	257.1	102.8	74.6	58.9	53.9	50.2	47.9	49.2
1799.1	55°	1269.2	753.5	258.1	95.3	70.1	55.4	50.4	46.2	43.4	43.4
1898.9	57.5°	1351.8	786.5	243.4	85.4	63.9	52.2	45.7	42.2	39.2	38.2
1987.5	60°	1424.9	810.9	218.9	74.1	58.4	47.9	40.9	38.2	34.4	32.4
2066.4	62.5°	1490.1	822.9	185.4	62.6	51.7	42.9	36.4	33.4	28.5	26.0
2146.5	65°	1545.2	810.7	150.5	51.9	45.9	37.4	31.2	28.2	22.7	19.7
2236.6	67.5°	1599.9	754.8	113.8	43.7	39.9	31.4	25.7	23.0	19.0	16.5
2302.3	70°	1606.9	637.2	79.6	36.7	33.2	24.2	20.7	19.0	15.5	13.2
2155.7	72.5°	1430.4	458.5	48.4	30.0	26.0	17.2	16.5	15.0	11.5	10.0
1761.4	75°	1143.4	281.0	28.5	22.5	17.2	12.2	12.2	10.7	7.7	6.5
1216.0	77.5°	790.2	147.0	16.7	14.5	10.2	7.2	8.0	6.5	3.7	3.0
481.7	80°	316.5	55.9	9.0	6.7	4.7	3.2	2.7	1.5	0.7	0.5
98.8	82.5°	63.1	14.7	3.0	1.7	1.7	0.7	0.0	0.0	0.0	0.0
27.2	85°	16.2	3.2	0.7	0.5	0.5	0.0	0.0	0.0	0.0	0.0
9.0	87.5°	5.0	0.0	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>
565.3
489.7
381.9
285.3
231.6
194.9
173.5
166.5
160.0
151.8
143.5
134.8
125.3
115.3
104.8
94.3
84.9
76.9
71.4
65.4
57.2
50.2
43.9
38.4
31.9
25.7
19.7
16.5
13.0
9.7
6.5
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