

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: P944912

Luminaire Tested: **GALN-SB1A-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3456 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

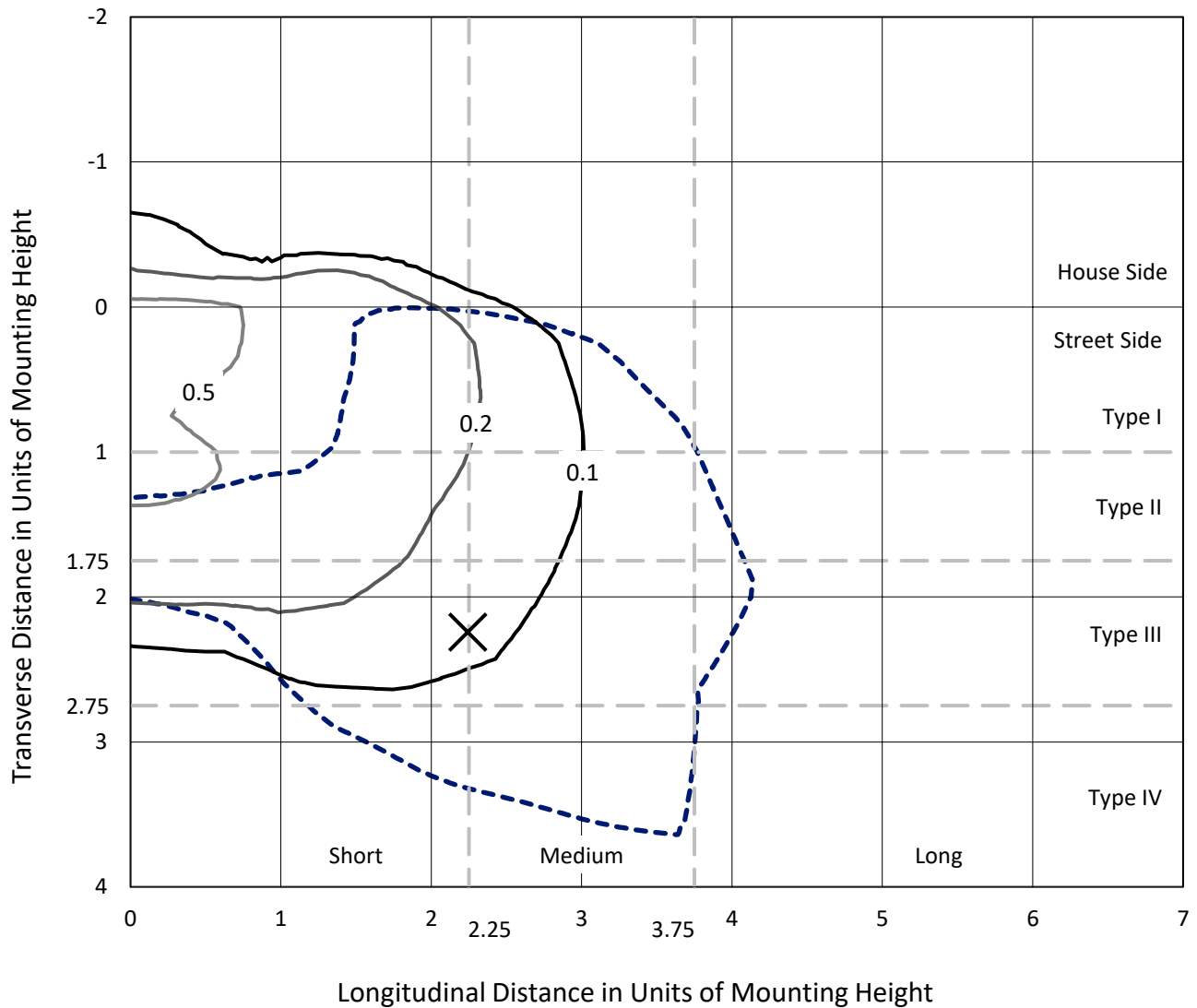
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944912
 CATALOG NUMBER: GALN-SB1A-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

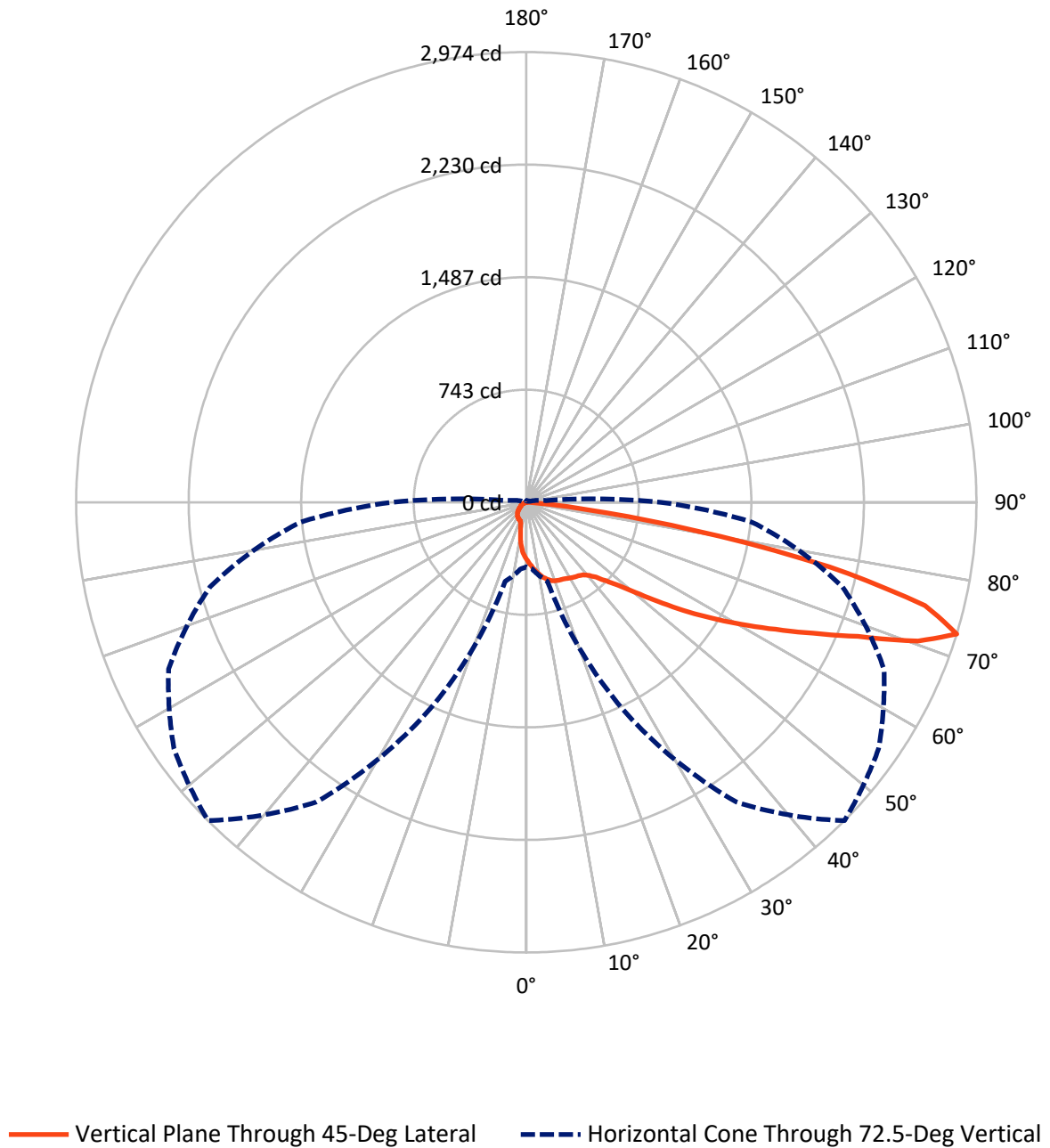
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P944912
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.1	0.0	363.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3092.9	0.0	3092.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	3456.0	0.0	3456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	1.0
10°-20°	104.3	3.0
20°-30°	171.2	5.0
30°-40°	242.8	7.0
40°-50°	401.3	11.6
50°-60°	721.0	20.9
60°-70°	1001.1	29.0
70°-80°	726.2	21.0
80°-90°	52.5	1.5
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°	3456.0	100.0
0°-180°	3456.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944912

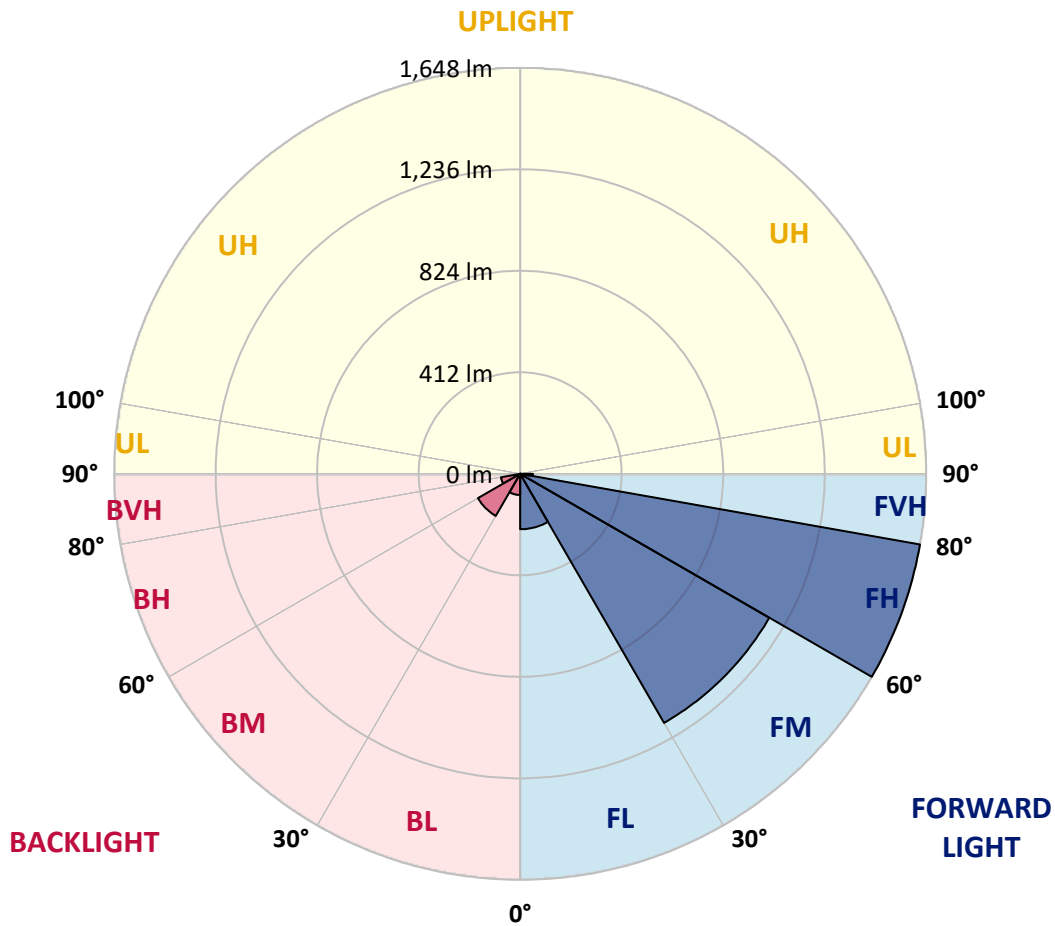
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.1	6.5			
FM (30°-60°)	1167.6	33.8			
FH (60°-80°)	1648.1	47.7			G1/1800
FVH (80°-90°)	52.1	1.5			G1/100
BL (0°-30°)	86.0	2.5	B0/110		
BM (30°-60°)	197.5	5.7	B0/220		
BH (60°-80°)	79.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



REPORT NUMBER: P944912

CATALOG NUMBER: GALN-SB1A-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6
2.5°	413.5	414.2	413.8	410.9	406.2	403.6	402.2	397.5	394.4	389.0
5°	451.5	454.3	452.7	447.0	438.1	431.7	429.8	420.1	411.4	401.3
7.5°	491.8	493.3	490.2	482.9	470.8	460.0	458.3	444.9	431.0	415.4
10°	526.8	528.4	523.7	513.1	499.4	485.9	483.6	468.7	452.2	433.1
12.5°	556.0	557.7	551.5	538.8	523.7	509.8	507.4	491.8	473.7	452.4
15°	578.2	581.2	573.0	559.3	543.0	529.1	527.9	512.6	494.9	471.3
17.5°	591.2	594.2	586.4	569.9	556.0	544.2	542.8	530.1	513.5	490.9
20°	593.3	596.1	587.9	573.5	561.9	552.5	551.8	542.6	530.5	508.8
22.5°	586.9	590.4	582.9	571.3	563.3	558.4	557.4	552.2	545.4	527.0
25°	580.3	583.1	577.5	567.3	563.1	562.6	563.3	562.4	561.0	545.4
27.5°	579.8	582.9	576.5	566.9	564.5	569.5	570.2	574.6	575.8	562.1
30°	583.8	586.0	579.8	569.7	568.5	579.8	580.1	588.1	590.0	576.3
32.5°	592.6	594.9	588.8	573.9	572.3	588.1	588.8	599.4	602.5	591.4
35°	613.1	615.9	608.8	585.7	579.8	595.9	598.0	610.5	616.6	607.4
37.5°	664.3	656.0	646.4	609.6	597.1	608.1	611.7	626.3	637.2	626.5
40°	791.4	765.5	735.3	650.1	627.2	634.3	637.2	651.8	666.6	656.3
42.5°	982.3	951.6	903.0	743.5	672.8	676.3	678.4	691.2	712.2	703.9
45°	1152.3	1141.3	1091.7	903.0	757.9	740.5	743.1	749.7	780.6	777.5
47.5°	1283.0	1276.7	1238.5	1086.1	901.8	819.0	826.3	829.4	874.0	884.8
50°	1383.5	1381.2	1347.0	1248.8	1089.8	934.9	937.4	930.8	997.6	1024.5
52.5°	1478.4	1486.4	1461.1	1400.0	1290.6	1086.5	1086.1	1054.9	1145.0	1185.6
55°	1564.0	1566.8	1569.4	1554.3	1492.5	1259.2	1254.7	1203.8	1316.1	1358.0
57.5°	1644.4	1645.6	1668.7	1699.6	1702.7	1444.6	1436.4	1375.3	1502.9	1532.8
60°	1698.4	1703.9	1752.7	1838.6	1876.1	1635.9	1631.5	1569.2	1693.0	1706.9
62.5°	1620.6	1653.6	1776.8	1947.1	2039.8	1848.0	1845.9	1787.4	1893.1	1881.7
65°	1311.8	1367.7	1584.3	2020.4	2200.4	2084.8	2087.9	2025.6	2098.5	2061.7
67.5°	917.6	976.6	1232.8	2026.3	2379.9	2363.0	2380.7	2283.0	2316.7	2234.2
70°	634.6	665.0	831.8	1899.4	2519.8	2746.1	2745.6	2599.1	2533.8	2312.7
72.5°	426.7	442.5	540.2	1506.9	2417.0	2973.7	2960.0	2840.7	2606.9	2162.9
75°	180.0	191.5	250.0	846.9	1912.2	2720.6	2683.5	2510.4	2316.3	1703.2
77.5°	57.1	62.0	98.6	303.1	1053.3	2045.0	2005.8	1567.8	1552.4	854.4
80°	27.1	31.6	55.4	121.7	414.5	1112.2	1106.8	711.2	667.8	230.7
82.5°	11.8	13.9	30.7	65.1	185.4	396.8	404.8	242.0	200.3	87.5
85°	3.8	5.0	14.2	30.0	78.3	98.6	97.4	57.6	80.7	47.7
87.5°	0.0	0.0	4.7	6.8	8.0	5.7	6.4	5.0	22.4	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944912
 CATALOG NUMBER: GALN-SB1A-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
378.6	0°	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6
383.3	2.5°	380.5	376.7	370.1	364.0	358.6	353.1	349.8	345.1	344.6	344.6
389.5	5°	383.1	377.0	365.2	352.7	338.3	324.6	310.9	297.7	293.5	290.4
399.4	7.5°	390.6	381.0	362.3	338.5	311.1	281.2	260.2	237.5	228.8	224.1
412.6	10°	401.5	388.3	360.0	318.2	273.9	233.1	203.1	178.6	169.1	165.1
427.0	12.5°	413.5	397.2	355.7	293.0	233.1	184.2	155.0	143.7	142.2	142.2
444.2	15°	427.9	408.1	348.4	263.3	190.4	145.8	135.4	135.9	137.3	138.2
460.9	17.5°	442.8	419.7	336.9	230.0	152.6	131.2	131.4	132.1	133.3	134.2
479.1	20°	458.8	431.2	321.5	194.6	130.9	126.9	127.6	128.3	129.3	129.7
496.1	22.5°	476.0	442.1	303.4	159.9	123.6	123.4	123.6	124.3	125.5	125.5
515.9	25°	494.4	454.1	282.6	134.7	119.8	119.8	120.3	120.8	121.7	121.7
535.0	27.5°	513.3	465.2	260.7	121.5	116.5	116.3	116.3	117.0	117.5	117.7
553.9	30°	534.1	478.2	238.7	118.7	113.9	112.8	112.1	112.5	113.0	113.2
573.7	32.5°	555.3	490.7	219.1	119.8	111.3	109.2	106.9	106.4	106.4	107.3
594.2	35°	578.9	504.3	204.0	123.8	109.9	104.0	100.3	98.1	98.4	99.8
618.8	37.5°	607.2	520.9	193.0	127.4	109.0	98.1	92.0	89.4	87.8	89.4
652.5	40°	644.2	545.2	184.9	130.2	107.8	91.3	83.0	78.8	75.7	76.7
704.9	42.5°	698.7	583.4	181.9	130.5	105.2	83.3	73.8	68.2	63.7	63.9
783.6	45°	775.2	643.8	197.7	127.4	99.5	74.5	64.2	56.6	53.8	53.1
901.4	47.5°	879.9	731.7	234.2	121.0	91.3	66.1	54.7	48.4	46.2	45.1
1055.9	50°	1020.2	844.7	274.8	113.9	83.0	58.0	46.9	42.9	41.5	40.3
1239.2	52.5°	1183.0	959.4	308.1	106.9	74.8	51.0	42.0	39.6	38.5	37.5
1416.1	55°	1332.3	1038.4	306.2	99.3	66.8	45.3	38.5	37.0	35.6	34.7
1568.5	57.5°	1425.3	1049.5	252.4	91.1	57.6	40.8	35.1	34.2	32.6	31.4
1700.3	60°	1468.0	986.3	176.9	80.2	48.4	36.6	31.6	31.1	29.0	27.4
1825.1	62.5°	1475.8	868.8	117.9	66.8	40.3	32.6	28.1	27.4	24.5	21.7
1926.6	65°	1444.2	700.8	81.6	52.1	34.4	28.3	24.1	22.6	19.6	16.7
1950.6	67.5°	1344.1	492.1	56.9	37.5	29.3	22.4	19.1	18.6	16.3	13.9
1828.0	70°	1160.8	280.5	38.0	28.1	23.1	15.3	15.1	15.6	13.2	11.3
1493.5	72.5°	890.0	128.3	23.6	20.5	15.8	10.4	12.0	12.3	10.1	8.5
931.8	75°	523.9	55.0	14.9	13.2	8.0	6.8	8.7	9.0	6.8	5.4
340.6	77.5°	178.3	20.8	9.4	7.8	4.0	3.8	5.7	5.7	3.8	2.1
68.4	80°	40.6	7.8	4.7	3.1	1.9	1.7	1.9	1.7	0.9	0.2
21.0	82.5°	11.6	3.1	1.9	1.2	0.7	0.7	0.2	0.0	0.0	0.0
7.3	85°	3.3	1.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.6	87.5°	1.4	0.2	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>
378.6
345.8
291.8
224.8
165.1
142.2
138.2
134.2
130.0
126.0
122.0
117.9
113.7
108.0
100.5
88.9
76.2
63.0
52.1
44.3
40.1
37.3
34.2
31.1
26.9
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