

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: P945158

Luminaire Tested: **GALN-SB1A-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2753 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

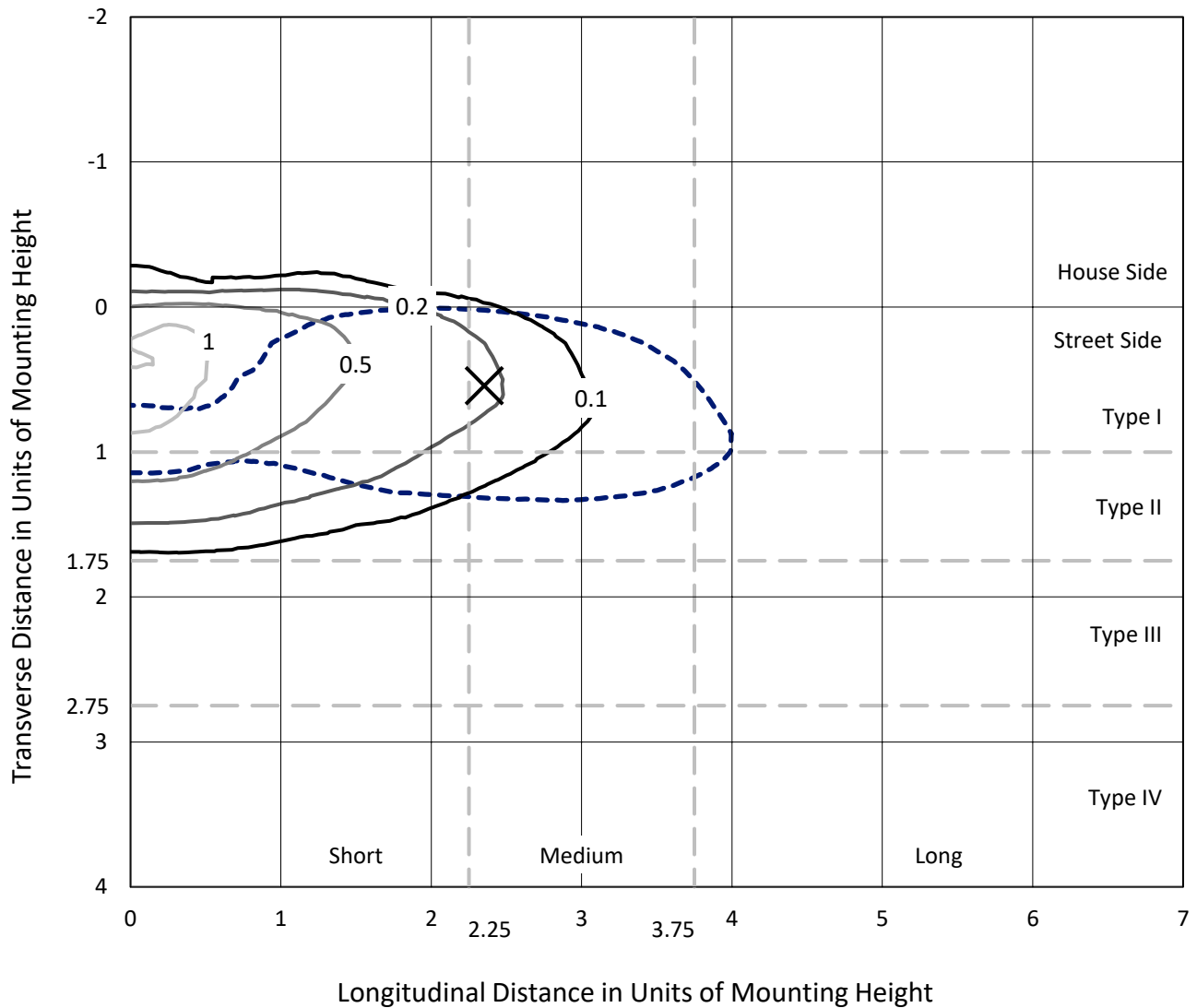
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

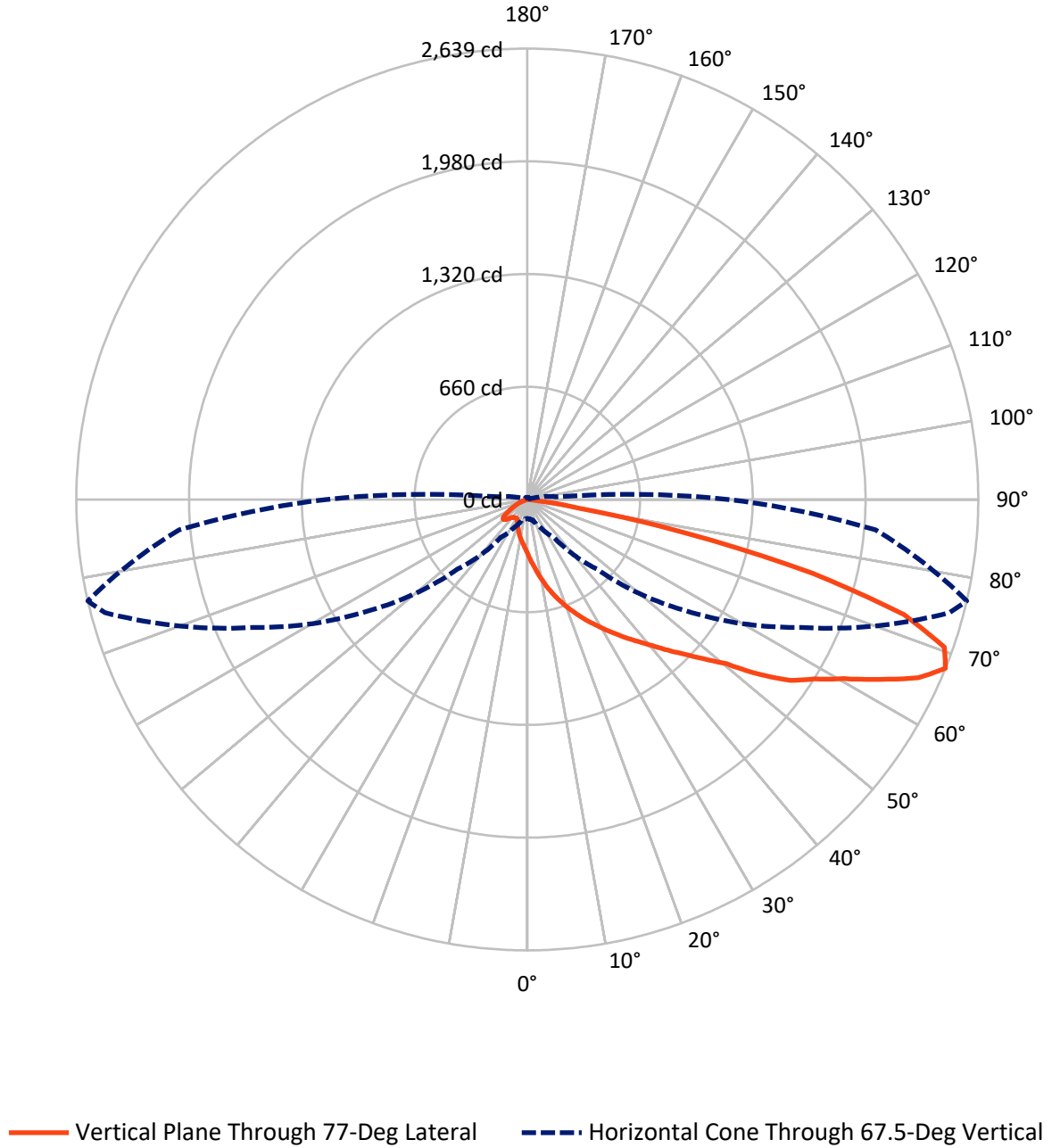
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	202.5	0.0	202.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	2550.5	0.0	2550.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	2753.0	0.0	2753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	1.2
10°-20°	113.5	4.1
20°-30°	219.0	8.0
30°-40°	380.1	13.8
40°-50°	551.9	20.0
50°-60°	633.8	23.0
60°-70°	550.3	20.0
70°-80°	259.2	9.4
80°-90°	12.8	0.5
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°	2753.0	100.0
0°-180°	2753.0	100.0

Coefficient of Utilization



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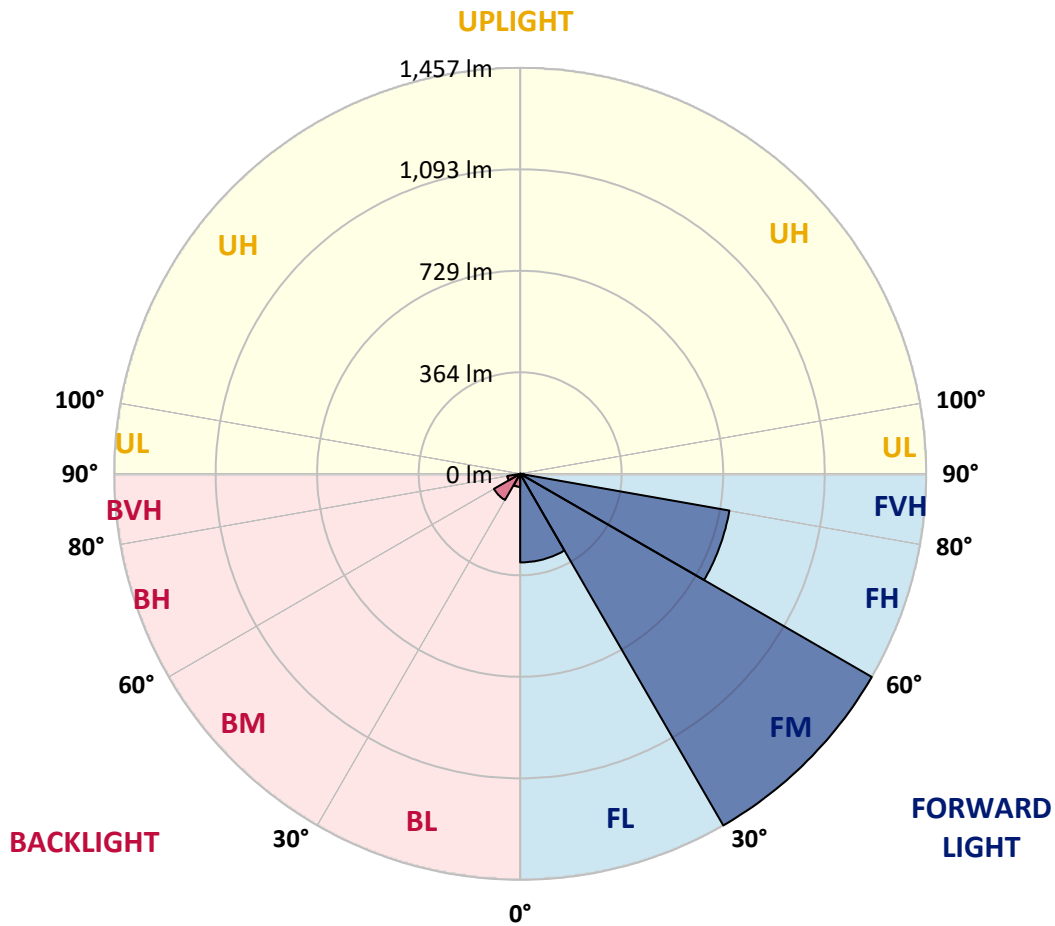
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.9	11.5			
FM (30°-60°)	1457.4	52.9			
FH (60°-80°)	762.6	27.7			G1/1800
FVH (80°-90°)	12.6	0.5			G1/100
BL (0°-30°)	46.9	1.7	B0/110		
BM (30°-60°)	108.5	3.9	B0/220		
BH (60°-80°)	46.9	1.7	B0/110		G0/110
BVH (80°-90°)	0.2	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5
2.5°	439.5	442.3	438.3	430.8	419.5	412.2	394.2	377.3	358.5	352.5
5°	535.8	538.2	533.7	525.5	510.5	496.1	472.5	437.1	400.4	388.6
7.5°	607.1	608.4	606.7	599.2	584.8	568.6	542.3	500.4	445.8	432.9
10°	658.3	662.8	662.3	659.4	649.8	636.6	608.6	560.9	496.8	480.0
12.5°	692.4	697.3	700.2	706.7	706.2	697.8	673.2	622.8	547.6	527.9
15°	702.3	707.6	718.7	733.7	747.1	751.3	734.1	683.5	603.5	578.3
17.5°	696.6	704.8	718.2	741.9	771.2	790.5	788.6	742.1	654.2	625.5
20°	709.1	717.0	727.4	747.4	781.4	816.5	830.5	798.2	704.7	674.6
22.5°	778.2	776.8	777.8	781.1	801.4	836.1	865.0	849.1	754.6	723.8
25°	887.6	881.4	871.0	853.4	848.3	865.0	895.1	894.3	807.2	774.3
27.5°	1013.1	1012.0	987.6	945.2	921.3	914.8	929.1	938.2	859.4	824.2
30°	1133.3	1136.0	1103.0	1055.8	1011.9	986.4	973.4	979.9	912.4	878.0
32.5°	1237.9	1240.8	1204.9	1149.7	1095.3	1064.5	1037.2	1021.1	970.2	932.7
35°	1326.3	1329.2	1288.0	1226.9	1169.0	1141.1	1110.2	1066.2	1028.3	993.4
37.5°	1405.2	1404.4	1349.2	1287.6	1230.7	1208.6	1192.4	1121.8	1088.1	1054.4
40°	1451.9	1455.5	1408.3	1340.4	1285.2	1269.2	1268.1	1190.7	1157.2	1124.5
42.5°	1465.6	1471.9	1437.7	1382.0	1331.9	1314.5	1341.3	1265.2	1237.5	1205.7
45°	1441.0	1447.1	1431.6	1392.9	1363.7	1352.4	1404.2	1342.5	1323.4	1291.9
47.5°	1369.2	1376.9	1380.6	1372.4	1372.1	1383.5	1460.6	1423.9	1425.2	1393.1
50°	1230.2	1243.2	1277.7	1306.8	1351.7	1408.1	1515.5	1512.1	1540.1	1512.4
52.5°	977.5	996.0	1115.0	1194.5	1295.5	1403.5	1575.9	1653.6	1741.7	1701.2
55°	785.5	785.5	882.3	1031.0	1185.7	1373.1	1602.2	1745.6	1879.0	1869.4
57.5°	640.4	648.1	709.8	841.3	1026.9	1300.6	1618.4	1803.4	1989.6	1982.6
60°	395.2	411.8	528.4	658.2	846.2	1171.5	1608.2	1861.9	2123.8	2129.4
62.5°	222.6	228.7	280.7	473.5	658.0	998.0	1529.7	1894.5	2295.4	2319.3
65°	153.7	156.8	176.8	294.7	456.1	794.6	1376.3	1874.2	2467.4	2515.8
67.5°	111.6	113.2	125.7	180.0	270.6	576.1	1136.0	1771.6	2558.5	2639.4
70°	85.8	86.8	95.9	118.3	159.8	355.6	825.0	1567.6	2492.5	2589.1
72.5°	69.7	70.8	77.8	87.5	106.0	210.3	500.0	1273.1	2201.2	2305.5
75°	58.8	60.2	66.5	72.8	83.1	135.1	234.5	886.6	1655.3	1723.7
77.5°	32.7	30.1	54.0	60.3	70.1	85.5	109.8	521.8	927.1	946.1
80°	20.3	21.0	42.9	48.6	53.9	43.1	50.3	200.9	321.4	305.3
82.5°	1.2	2.7	33.0	35.0	36.9	18.5	19.0	68.2	77.4	71.1
85°	0.0	0.0	15.0	12.1	12.8	5.3	5.5	15.9	10.4	11.3
87.5°	0.0	0.0	0.0	0.3	0.0	0.5	1.0	1.4	0.5	0.7
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°
317.5	0°	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5
333.7	2.5°	321.7	309.8	285.5	261.7	242.4	224.5	211.6	199.5	193.3	193.0
355.2	5°	331.5	306.3	257.8	214.9	180.4	152.7	134.7	121.9	115.4	113.2
381.7	7.5°	345.2	307.4	233.5	173.9	133.2	109.4	99.2	95.1	93.7	92.1
411.7	10°	362.4	309.8	211.8	140.0	105.0	93.0	88.9	87.2	86.2	85.1
445.3	12.5°	381.7	312.0	190.3	116.2	92.3	86.2	83.3	81.2	79.8	78.6
479.9	15°	400.5	313.4	167.9	99.7	85.8	80.9	77.8	75.6	73.7	72.3
513.7	17.5°	419.2	315.2	146.8	89.8	80.5	75.6	72.5	69.7	68.2	66.7
549.3	20°	439.9	314.9	127.0	82.7	75.2	70.3	67.0	64.4	62.9	61.2
586.9	22.5°	459.0	313.2	109.6	76.8	69.7	65.0	61.4	58.8	57.3	55.9
625.3	25°	481.1	311.8	95.1	71.3	64.6	59.8	55.9	53.5	51.8	50.6
664.0	27.5°	502.3	309.8	84.5	66.3	59.7	55.0	51.3	48.6	47.0	46.2
703.8	30°	523.1	309.3	80.5	61.5	55.2	50.6	46.8	44.3	43.1	42.7
747.6	32.5°	548.2	310.6	82.2	59.8	51.1	46.5	42.9	41.0	39.8	39.8
796.3	35°	575.1	310.3	84.8	61.4	48.4	42.4	39.7	38.5	37.3	37.3
850.3	37.5°	608.8	310.8	86.8	63.9	47.4	39.0	37.4	35.9	35.2	35.2
909.5	40°	659.0	327.7	85.8	66.2	47.0	36.6	33.5	33.0	32.5	32.5
976.3	42.5°	720.6	364.5	87.2	66.3	46.8	34.9	30.8	31.8	30.6	30.4
1051.7	45°	787.9	404.6	95.9	62.7	46.7	34.0	29.4	30.6	28.7	28.7
1139.1	47.5°	854.8	444.5	104.8	57.6	46.2	33.8	28.2	27.5	27.0	27.2
1252.9	50°	946.9	477.0	108.2	50.6	45.0	33.5	26.0	26.2	25.8	26.2
1413.4	52.5°	1047.3	483.8	104.1	42.7	41.5	32.5	24.4	25.1	25.0	25.3
1526.4	55°	1109.8	476.4	86.0	35.6	36.2	28.4	22.9	24.3	24.3	24.3
1636.9	57.5°	1174.5	445.2	61.0	28.9	30.1	23.2	21.5	23.4	23.2	23.1
1769.9	60°	1221.0	394.6	40.2	23.8	23.9	19.1	20.0	22.1	21.9	21.0
1907.0	62.5°	1255.7	338.7	25.8	20.2	18.3	17.3	18.3	20.0	19.3	17.4
2023.2	65°	1251.7	261.2	19.8	17.3	15.0	15.0	15.9	17.4	15.4	12.3
2045.5	67.5°	1178.7	176.8	16.4	14.5	12.7	12.5	13.2	14.5	13.2	10.4
1931.6	70°	1048.3	115.6	13.2	11.3	10.1	9.2	10.6	12.5	11.1	8.4
1644.4	72.5°	850.8	70.4	9.9	8.2	7.4	6.0	8.4	10.3	8.9	6.2
1143.5	75°	550.5	35.9	6.8	5.3	3.9	3.6	6.2	7.7	6.2	3.8
507.4	77.5°	210.6	15.0	3.8	2.4	2.1	1.7	3.4	4.6	2.6	0.9
98.3	80°	40.5	6.3	1.9	1.2	1.0	0.7	0.5	0.3	0.0	0.0
17.4	82.5°	7.0	2.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3.4	85°	2.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.2	87.5°	0.9	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>
317.5
192.7
112.8
91.8
84.8
78.3
72.1
66.5
61.0
55.7
50.4
46.2
42.6
39.8
37.3
35.2
32.5
30.3
28.7
27.2
26.2
25.3
24.3
23.1
21.0
17.1
12.0
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5.8
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