

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: P945150

Luminaire Tested: **GALN-SB1A-940-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2635 lumens
Efficiency: N/A
Efficacy: 85.3 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

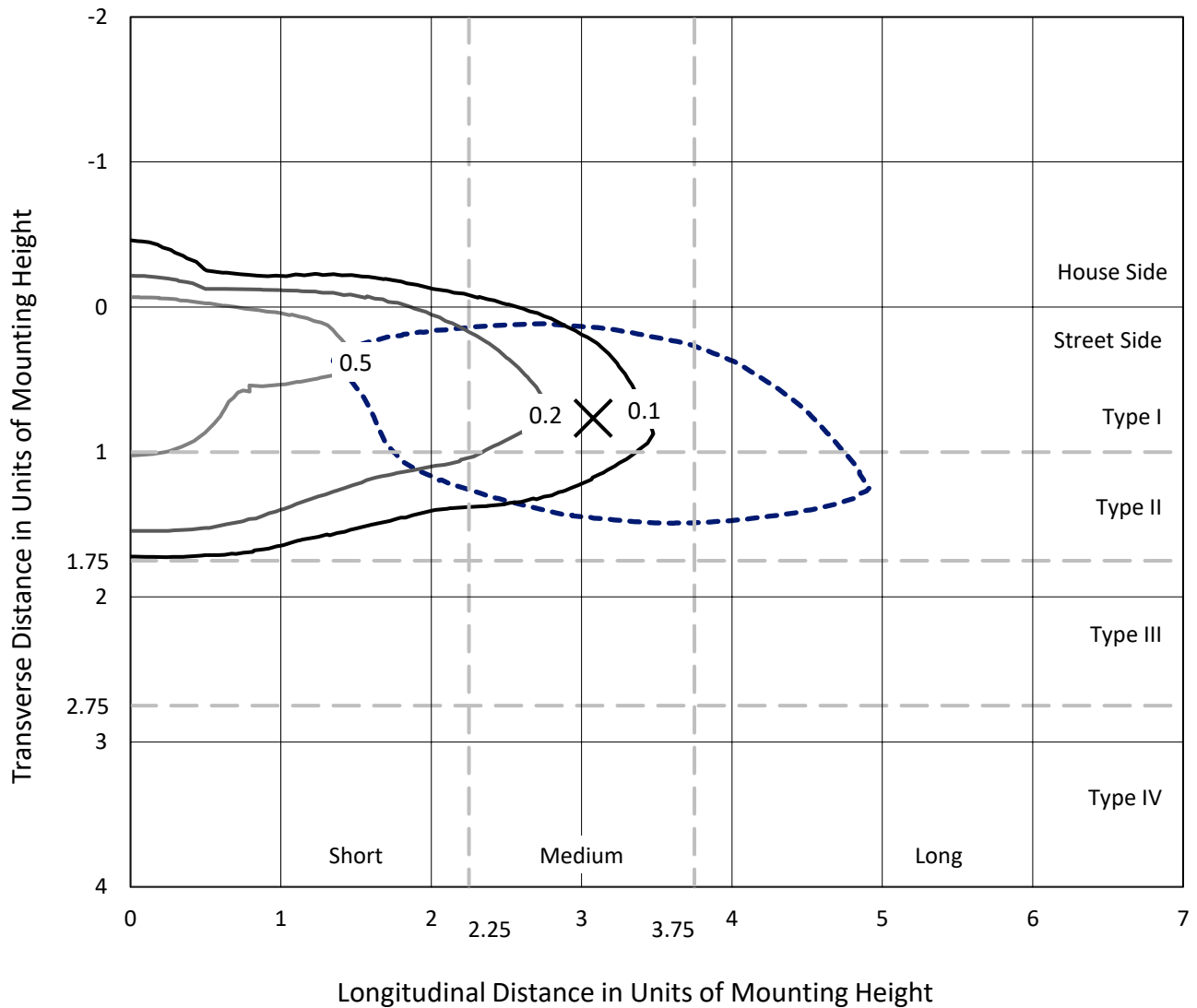
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

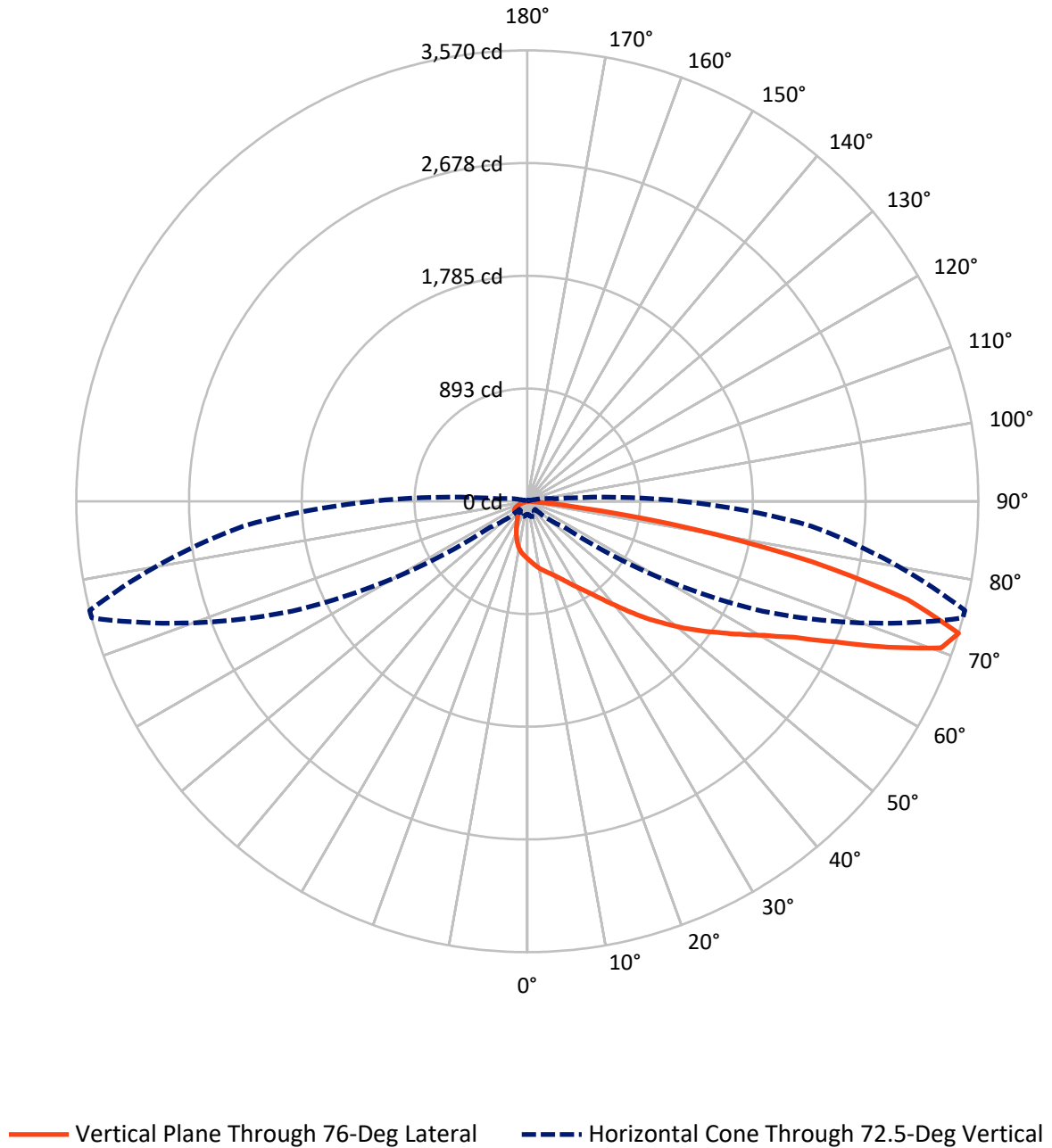
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	269.7	0.0	269.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	2365.3	0.0	2365.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	2635.0	0.0	2635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	1.6
10°-20°	111.0	4.2
20°-30°	175.8	6.7
30°-40°	271.9	10.3
40°-50°	413.0	15.7
50°-60°	569.4	21.6
60°-70°	601.5	22.8
70°-80°	412.6	15.7
80°-90°	38.4	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°	2635.0	100.0
0°-180°	2635.0	100.0

Coefficient of Utilization



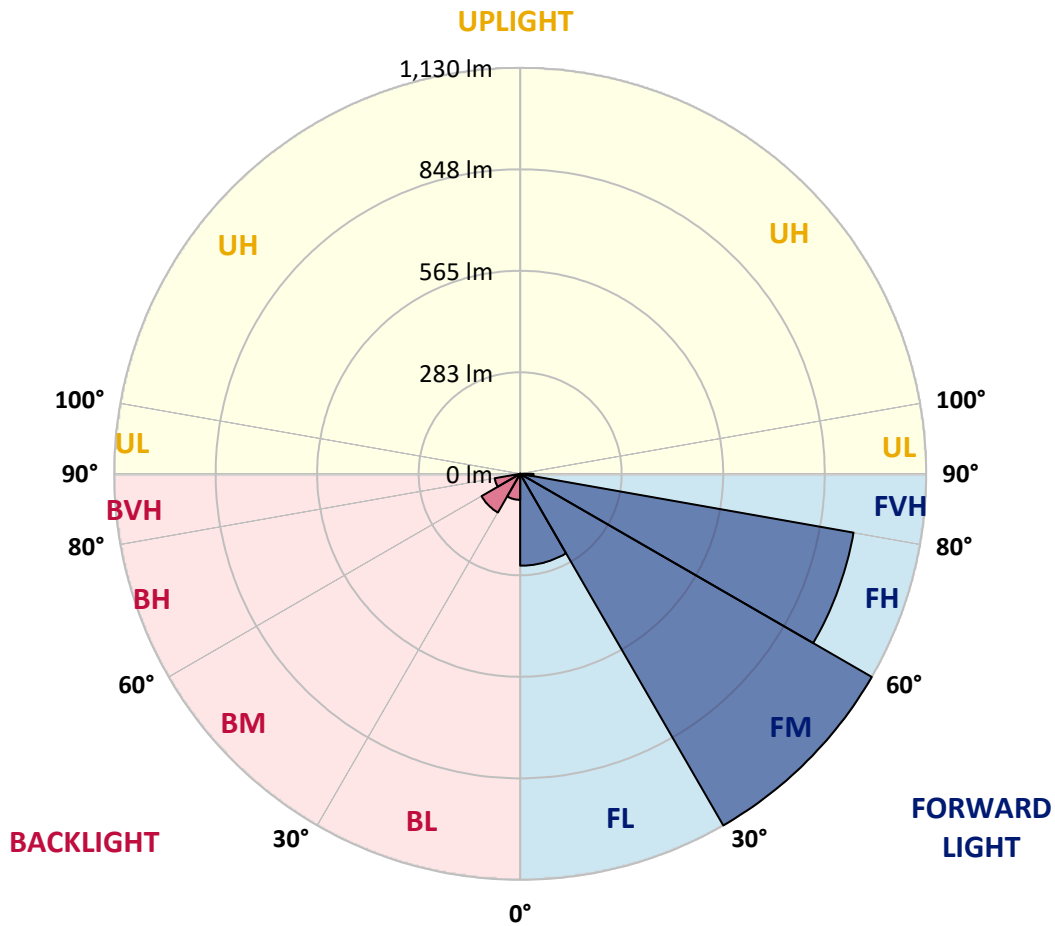
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	255.7	9.7			
FM (30°-60°)	1130.1	42.9			
FH (60°-80°)	942.1	35.8			G1/1800
FVH (80°-90°)	37.4	1.4			G1/100
BL (0°-30°)	72.5	2.8	B0/110		
BM (30°-60°)	124.2	4.7	B0/220		
BH (60°-80°)	72.0	2.7	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4
2.5°	529.4	522.4	523.7	516.7	513.5	505.6	497.4	486.6	474.7	474.7
5°	585.1	580.6	580.6	572.4	566.1	553.8	539.1	520.1	497.6	495.3
7.5°	619.3	616.5	618.2	613.5	608.3	595.5	578.1	553.3	521.3	518.6
10°	625.9	625.8	630.6	631.9	635.3	628.8	613.3	584.7	544.7	540.8
12.5°	600.1	596.9	608.7	622.5	642.0	650.7	642.7	613.5	566.1	560.6
15°	557.7	558.4	569.7	591.1	623.5	654.7	665.1	641.5	587.8	581.3
17.5°	533.5	530.9	540.6	559.8	595.7	639.6	675.5	667.6	610.9	603.5
20°	530.6	530.4	532.6	541.3	568.7	618.1	674.3	693.1	638.1	629.5
22.5°	550.7	550.4	548.5	546.8	554.3	597.0	669.2	717.4	670.5	661.3
25°	581.7	581.2	578.2	567.8	560.5	585.8	664.4	739.9	709.0	698.8
27.5°	619.4	619.1	613.8	598.1	579.1	586.8	662.0	763.2	753.4	743.4
30°	665.8	665.1	654.1	631.9	607.1	603.0	665.2	789.3	799.8	792.1
32.5°	723.9	722.0	707.6	674.1	639.4	624.7	671.4	816.2	854.6	847.5
35°	768.8	765.9	757.6	728.0	676.9	651.4	685.8	848.0	920.6	914.3
37.5°	807.5	804.6	797.7	773.4	730.5	685.4	708.8	890.4	998.6	995.5
40°	849.2	844.4	841.1	815.2	776.4	734.5	741.8	939.9	1088.3	1088.6
42.5°	881.3	879.4	879.8	859.8	820.6	792.6	785.6	995.8	1195.8	1199.1
45°	908.8	907.3	913.6	899.6	865.2	830.7	836.9	1059.1	1313.4	1320.1
47.5°	930.0	931.7	940.8	931.7	911.6	857.5	882.3	1127.3	1437.0	1437.8
50°	951.2	951.9	966.9	962.5	954.3	891.6	924.2	1203.5	1567.2	1568.8
52.5°	957.9	956.9	980.8	991.7	992.1	933.6	978.4	1286.6	1694.9	1699.9
55°	923.7	926.6	965.2	1009.7	1027.3	991.7	1051.5	1391.7	1831.0	1833.0
57.5°	756.5	772.6	858.1	961.1	1050.0	1075.0	1156.7	1514.6	1988.1	1986.2
60°	459.1	478.3	580.5	806.1	975.8	1158.5	1311.5	1705.0	2159.7	2154.4
62.5°	256.7	262.5	295.2	482.5	742.2	1105.4	1462.8	1949.6	2390.1	2372.1
65°	189.2	191.1	198.8	236.4	364.8	850.2	1429.6	2242.1	2713.8	2681.9
67.5°	164.4	166.3	173.8	179.0	162.9	446.6	1177.9	2404.3	3124.9	3083.0
70°	138.5	139.5	151.6	155.0	116.6	169.9	756.7	2354.2	3505.4	3475.5
72.5°	103.2	107.3	124.9	133.2	93.5	90.2	356.2	2058.3	3569.8	3570.2
75°	70.1	73.8	94.0	109.6	72.1	63.2	143.8	1537.0	3108.5	3108.5
77.5°	47.9	50.9	65.5	86.0	54.7	43.4	74.5	975.5	2230.1	2308.5
80°	21.2	23.1	42.2	62.4	41.5	28.0	42.2	534.1	1348.6	1332.0
82.5°	10.4	12.0	27.0	39.0	26.8	17.3	22.2	254.0	437.1	415.4
85°	2.1	2.7	14.5	16.6	12.5	7.7	8.4	78.1	52.6	60.2
87.5°	0.0	0.0	4.4	3.1	1.4	1.7	1.7	7.0	4.1	4.8
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°
455.4	0°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4
463.0	2.5°	456.9	450.6	436.7	423.0	409.0	396.2	387.3	378.4	373.0	370.6
473.3	5°	460.5	447.7	418.6	388.2	358.1	328.7	306.6	286.0	279.5	268.7
485.4	7.5°	466.1	445.3	399.5	348.2	299.3	256.2	225.1	200.3	190.4	180.8
495.9	10°	469.9	440.8	374.2	305.6	239.5	191.1	161.4	143.4	136.9	131.1
505.6	12.5°	471.4	432.6	345.1	257.9	186.3	145.6	127.9	119.5	117.3	115.2
514.8	15°	472.8	424.6	312.6	212.0	147.2	121.9	114.9	112.1	110.6	109.2
524.2	17.5°	474.0	414.3	275.5	172.3	124.3	112.3	108.9	106.0	104.8	103.2
537.7	20°	478.1	404.4	242.4	142.2	111.8	105.5	101.7	98.6	97.6	96.6
556.9	22.5°	485.8	396.4	210.2	121.9	104.3	98.5	93.7	90.2	89.6	88.9
580.1	25°	495.0	386.5	180.0	108.7	96.9	90.4	85.1	82.2	81.5	81.7
607.0	27.5°	506.8	375.5	154.0	100.3	90.4	82.9	76.9	74.7	75.0	75.7
637.9	30°	519.8	365.4	133.7	94.5	84.6	76.2	70.3	68.7	69.9	70.9
679.3	32.5°	539.1	356.6	119.5	89.9	79.5	70.8	66.0	64.1	65.5	66.8
732.1	35°	565.4	352.1	111.4	86.0	75.0	66.5	61.7	60.3	61.7	62.0
796.5	37.5°	597.7	351.8	108.0	82.7	70.9	62.9	57.6	57.1	58.1	58.3
874.0	40°	639.4	354.0	105.5	80.3	66.7	58.8	53.8	53.3	53.7	54.9
967.1	42.5°	692.3	363.2	101.9	77.3	62.0	54.7	50.8	49.6	49.4	50.8
1071.4	45°	758.6	383.6	97.1	72.3	57.9	51.3	47.3	46.0	45.5	45.8
1179.1	47.5°	830.9	408.5	92.3	67.7	55.0	48.5	44.6	42.9	42.0	42.0
1279.7	50°	901.0	436.7	89.1	62.9	53.0	46.0	41.7	40.0	38.6	38.3
1383.3	52.5°	970.4	464.4	86.5	58.1	50.6	42.7	39.0	37.1	35.6	34.9
1485.9	55°	1033.6	490.7	82.0	53.5	47.5	39.3	36.2	34.4	32.5	31.3
1589.8	57.5°	1094.3	512.6	73.8	48.7	42.7	36.1	33.3	31.3	29.1	27.5
1694.9	60°	1149.5	523.9	63.6	43.6	37.9	32.6	30.1	28.2	25.3	22.7
1798.3	62.5°	1191.5	519.4	52.5	37.8	33.0	29.6	26.3	24.4	21.0	17.9
1922.3	65°	1234.6	495.2	41.9	31.6	28.9	25.5	22.0	20.2	16.2	13.0
2089.9	67.5°	1290.5	443.4	33.0	26.3	25.0	20.2	17.3	16.1	13.3	10.3
2269.9	70°	1326.4	344.4	25.6	21.4	20.5	14.7	13.3	13.2	10.6	7.9
2257.8	72.5°	1227.9	225.8	19.7	16.2	14.7	9.6	10.3	10.3	7.7	5.3
1979.2	75°	1025.1	132.1	14.2	11.6	8.4	6.2	7.0	7.0	4.8	2.6
1410.7	77.5°	732.1	70.4	9.4	7.2	4.3	2.7	3.8	3.6	1.5	0.2
553.0	80°	280.0	24.3	4.4	2.9	1.2	0.5	0.3	0.2	0.2	0.0
86.3	82.5°	42.7	6.3	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
18.3	85°	7.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.8	87.5°	1.7	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>
455.4
370.9
269.4
180.7
130.9
115.2
109.2
103.2
96.7
88.4
81.4
75.4
70.6
66.5
61.9
57.9
54.7
50.6
46.3
42.0
38.1
34.5
30.8
26.8
22.0
16.8
12.1
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7.0
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