

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: P945339

Luminaire Tested: **GALN-SB1B-827-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945339
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-SB1B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA 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: 3970 lumens
Efficiency: N/A
Efficacy: 99.7 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

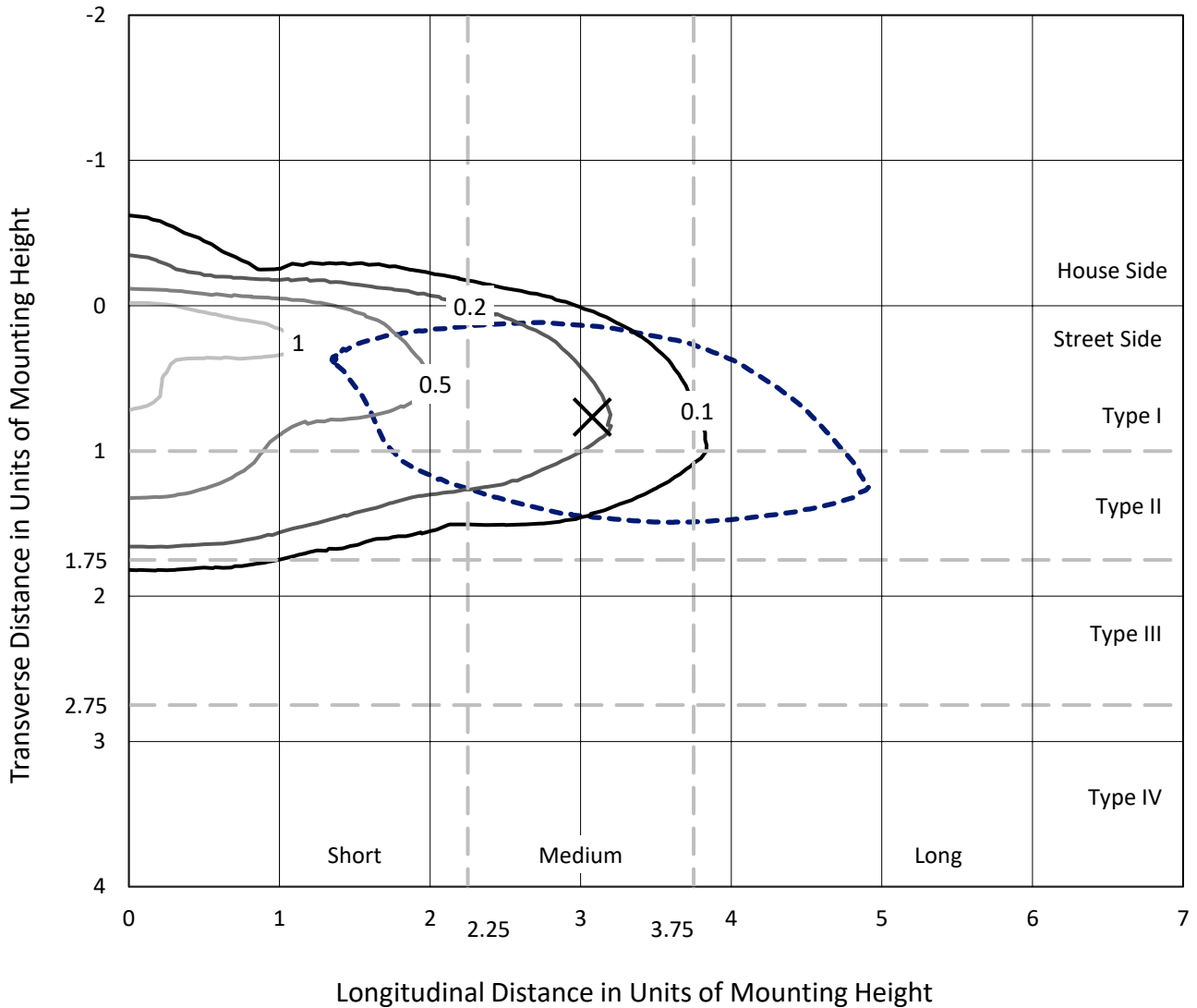
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

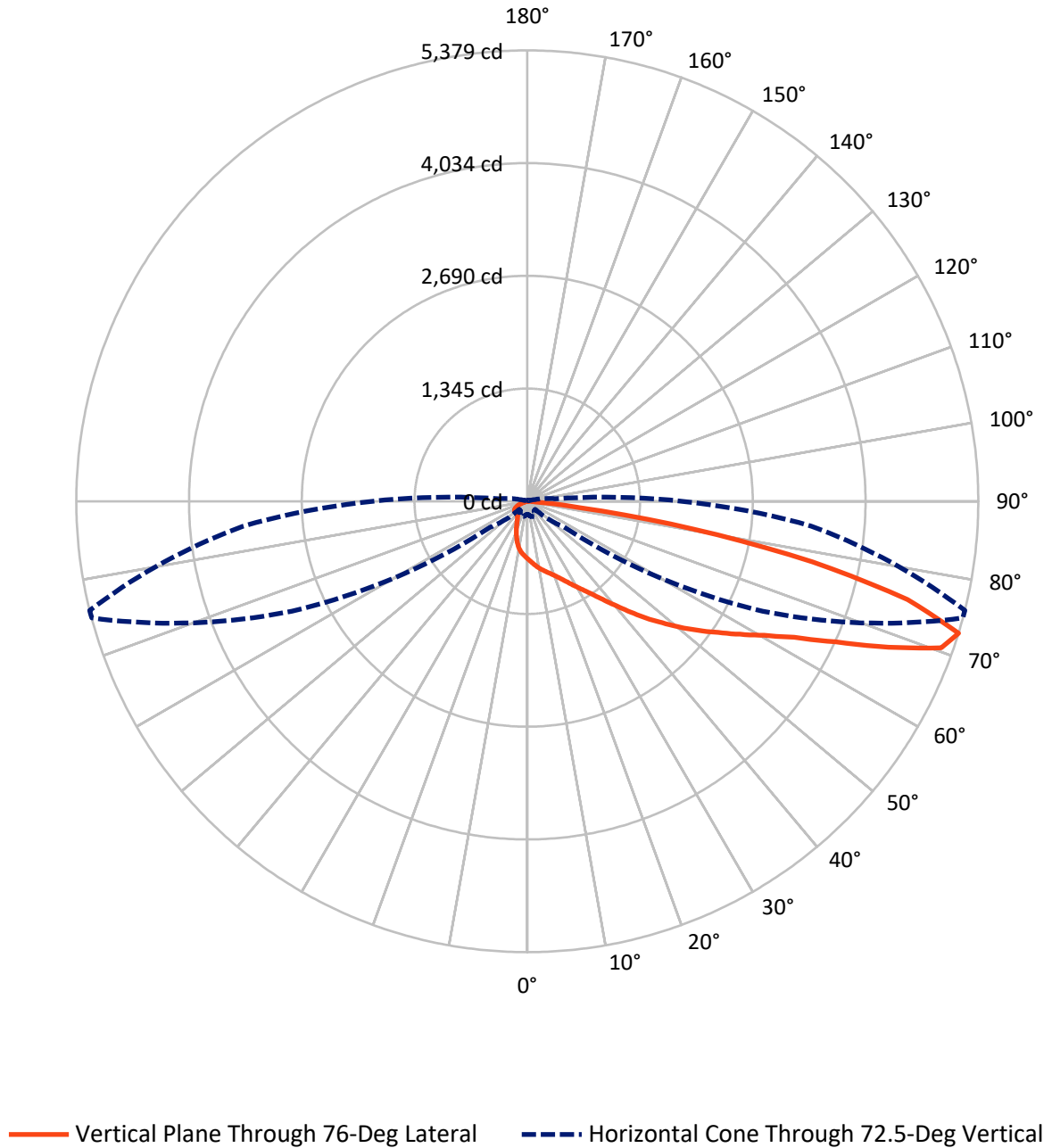
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	406.3	0.0	406.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3563.7	0.0	3563.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	3970.0	0.0	3970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	1.6
10°-20°	167.3	4.2
20°-30°	264.8	6.7
30°-40°	409.7	10.3
40°-50°	622.2	15.7
50°-60°	857.8	21.6
60°-70°	906.2	22.8
70°-80°	621.7	15.7
80°-90°	57.9	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°	3970.0	100.0
0°-180°	3970.0	100.0

Coefficient of Utilization



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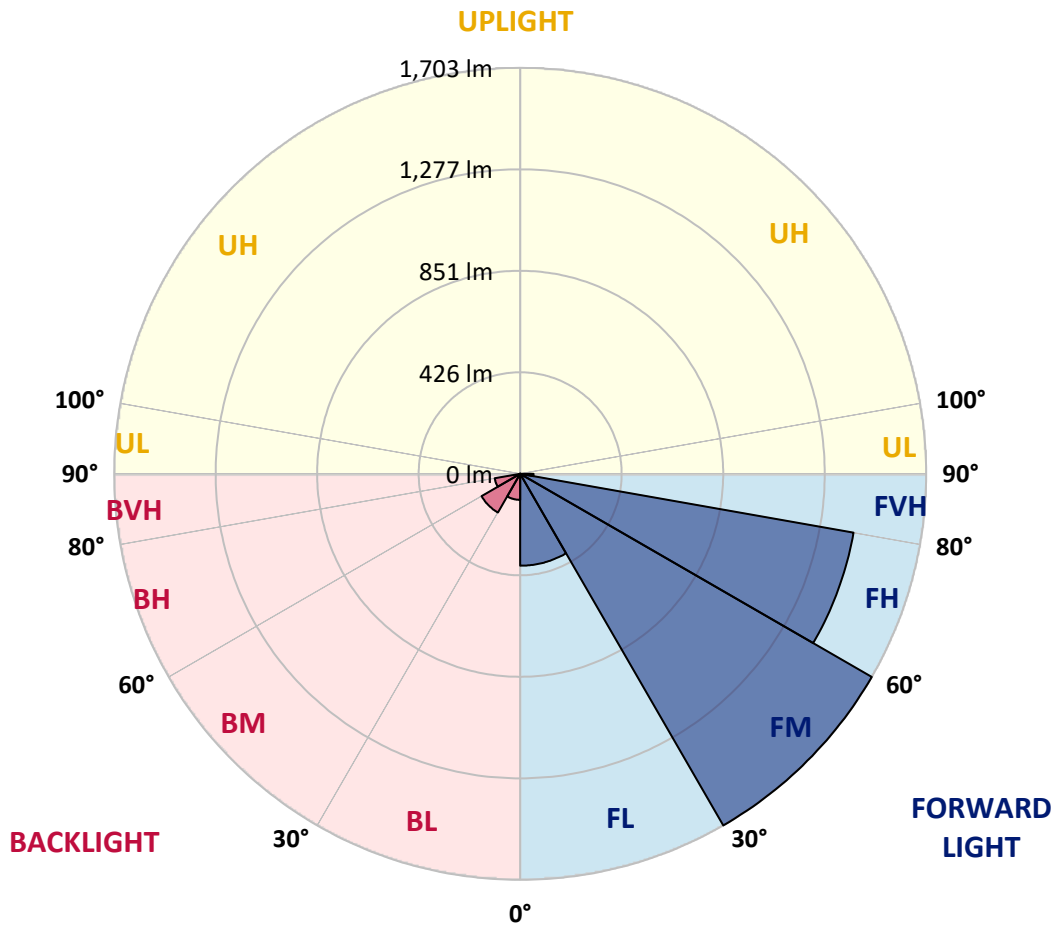
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.3	9.7			
FM (30°-60°)	1702.7	42.9			
FH (60°-80°)	1419.4	35.8			G1/1800
FVH (80°-90°)	56.3	1.4			G1/100
BL (0°-30°)	109.2	2.8	B0/110		
BM (30°-60°)	187.1	4.7	B0/220		
BH (60°-80°)	108.5	2.7	B0/110		G0/110
BVH (80°-90°)	1.6	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°	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1
2.5°	797.6	787.0	789.1	778.5	773.6	761.8	749.4	733.2	715.2	715.2
5°	881.5	874.8	874.8	862.5	852.9	834.4	812.2	783.7	749.7	746.3
7.5°	933.0	928.9	931.5	924.3	916.5	897.2	871.0	833.6	785.5	781.3
10°	943.1	942.8	950.0	952.1	957.2	947.4	924.0	881.0	820.7	814.8
12.5°	904.2	899.3	917.1	937.9	967.3	980.4	968.3	924.3	852.9	844.7
15°	840.3	841.3	858.3	890.5	939.5	986.3	1002.0	966.5	885.6	875.8
17.5°	803.7	799.9	814.6	843.4	897.5	963.7	1017.7	1005.9	920.4	909.3
20°	799.4	799.1	802.5	815.6	856.8	931.2	1015.9	1044.3	961.3	948.5
22.5°	829.8	829.2	826.4	823.8	835.2	899.5	1008.2	1080.8	1010.3	996.4
25°	876.4	875.6	871.2	855.5	844.4	882.5	1001.0	1114.8	1068.2	1052.8
27.5°	933.3	932.8	924.8	901.1	872.5	884.1	997.4	1149.9	1135.2	1120.0
30°	1003.1	1002.0	985.6	952.1	914.7	908.6	1002.3	1189.3	1205.0	1193.4
32.5°	1090.6	1087.8	1066.2	1015.7	963.4	941.3	1011.6	1229.7	1287.6	1276.8
35°	1158.4	1154.0	1141.4	1096.8	1019.8	981.4	1033.2	1277.6	1387.0	1377.5
37.5°	1216.6	1212.2	1201.9	1165.3	1100.7	1032.7	1068.0	1341.5	1504.5	1499.8
40°	1279.4	1272.2	1267.3	1228.1	1169.7	1106.6	1117.7	1416.1	1639.7	1640.2
42.5°	1327.8	1325.0	1325.5	1295.4	1236.4	1194.2	1183.6	1500.3	1801.7	1806.5
45°	1369.3	1367.0	1376.5	1355.4	1303.6	1251.6	1260.8	1595.6	1978.8	1988.9
47.5°	1401.2	1403.8	1417.4	1403.8	1373.4	1292.0	1329.4	1698.4	2165.0	2166.3
50°	1433.1	1434.2	1456.8	1450.1	1437.8	1343.3	1392.4	1813.2	2361.3	2363.6
52.5°	1443.2	1441.6	1477.7	1494.2	1494.7	1406.6	1474.1	1938.4	2553.6	2561.1
55°	1391.7	1396.1	1454.3	1521.2	1547.7	1494.2	1584.3	2096.8	2758.6	2761.7
57.5°	1139.8	1164.0	1292.8	1448.1	1582.0	1619.6	1742.7	2281.9	2995.3	2992.5
60°	691.7	720.6	874.6	1214.5	1470.2	1745.5	1976.0	2568.8	3253.8	3245.9
62.5°	386.8	395.6	444.7	727.0	1118.2	1665.4	2203.9	2937.3	3601.0	3574.0
65°	285.1	287.9	299.5	356.2	549.6	1280.9	2154.0	3378.0	4088.7	4040.6
67.5°	247.7	250.6	261.9	269.6	245.4	672.9	1774.6	3622.4	4708.1	4645.0
70°	208.6	210.1	228.4	233.6	175.6	256.0	1140.1	3546.9	5281.4	5236.3
72.5°	155.5	161.7	188.3	200.6	140.9	136.0	536.7	3101.1	5378.4	5379.0
75°	105.6	111.3	141.6	165.1	108.7	95.3	216.6	2315.7	4683.4	4683.4
77.5°	72.1	76.7	98.6	129.5	82.4	65.4	112.3	1469.7	3359.9	3478.2
80°	31.9	34.8	63.6	94.0	62.6	42.2	63.6	804.8	2031.9	2006.9
82.5°	15.7	18.0	40.7	58.7	40.4	26.0	33.5	382.7	658.5	625.8
85°	3.1	4.1	21.9	25.0	18.8	11.6	12.6	117.7	79.3	90.6
87.5°	0.0	0.0	6.7	4.6	2.1	2.6	2.6	10.6	6.2	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°
686.1	0°	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1
697.6	2.5°	688.4	678.8	658.0	637.4	616.3	596.9	583.6	570.2	561.9	558.3
713.1	5°	693.8	674.5	630.7	584.8	539.5	495.2	462.0	430.8	421.1	404.8
731.4	7.5°	702.3	670.9	601.8	524.6	450.9	386.0	339.2	301.8	286.9	272.5
747.1	10°	707.9	664.2	563.7	460.5	360.8	287.9	243.1	216.1	206.3	197.5
761.8	12.5°	710.3	651.8	519.9	388.6	280.7	219.4	192.6	180.0	176.7	173.6
775.7	15°	712.3	639.7	471.0	319.3	221.7	183.6	173.1	168.9	166.6	164.6
789.8	17.5°	714.1	624.2	415.1	259.6	187.2	169.2	164.0	159.7	157.9	155.5
810.2	20°	720.3	609.3	365.2	214.3	168.4	158.9	153.2	148.6	147.0	145.5
839.0	22.5°	731.9	597.2	316.8	183.6	157.1	148.3	141.1	136.0	134.9	133.9
874.0	25°	745.8	582.3	271.2	163.8	146.0	136.2	128.2	123.9	122.8	123.1
914.5	27.5°	763.6	565.8	232.0	151.2	136.2	124.9	115.9	112.5	113.1	114.1
961.1	30°	783.1	550.6	201.4	142.4	127.5	114.9	105.8	103.5	105.3	106.9
1023.4	32.5°	812.2	537.2	180.0	135.5	119.7	106.6	99.4	96.6	98.6	100.7
1103.0	35°	851.9	530.5	167.9	129.5	113.1	100.2	93.0	90.9	93.0	93.5
1200.1	37.5°	900.6	530.0	162.8	124.6	106.9	94.8	86.8	86.0	87.6	87.8
1316.7	40°	963.4	533.3	158.9	121.0	100.4	88.6	81.1	80.3	80.9	82.7
1457.1	42.5°	1043.0	547.2	153.5	116.4	93.5	82.4	76.5	74.7	74.4	76.5
1614.2	45°	1142.9	577.9	146.3	108.9	87.3	77.3	71.3	69.3	68.5	69.0
1776.4	47.5°	1251.8	615.5	139.1	102.0	82.9	73.1	67.2	64.6	63.4	63.4
1928.1	50°	1357.4	658.0	134.2	94.8	79.8	69.3	62.8	60.3	58.2	57.7
2084.2	52.5°	1462.0	699.7	130.3	87.6	76.2	64.4	58.7	55.9	53.6	52.5
2238.7	55°	1557.3	739.4	123.6	80.6	71.6	59.2	54.6	51.8	48.9	47.1
2395.3	57.5°	1648.7	772.3	111.3	73.4	64.4	54.3	50.2	47.1	43.8	41.5
2553.6	60°	1731.9	789.3	95.8	65.7	57.2	49.2	45.3	42.5	38.1	34.3
2709.4	62.5°	1795.2	782.6	79.1	56.9	49.7	44.6	39.7	36.8	31.7	27.0
2896.1	65°	1860.1	746.1	63.1	47.6	43.5	38.4	33.2	30.4	24.5	19.6
3148.8	67.5°	1944.3	668.0	49.7	39.7	37.6	30.4	26.0	24.2	20.1	15.5
3420.0	70°	1998.4	518.9	38.6	32.2	30.9	22.1	20.1	19.8	16.0	11.8
3401.7	72.5°	1850.1	340.2	29.6	24.5	22.1	14.4	15.5	15.5	11.6	8.0
2981.9	75°	1544.4	199.1	21.4	17.5	12.6	9.3	10.6	10.6	7.2	3.9
2125.4	77.5°	1103.0	106.1	14.2	10.8	6.4	4.1	5.7	5.4	2.3	0.3
833.1	80°	421.8	36.6	6.7	4.4	1.8	0.8	0.5	0.3	0.3	0.0
130.1	82.5°	64.4	9.5	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
27.6	85°	11.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.2	87.5°	2.6	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>
686.1
558.8
405.9
272.2
197.3
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122.6
113.6
106.4
100.2
93.2
87.3
82.4
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