

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: P944982

Luminaire Tested: **GALN-SB1A-827-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944982  
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-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

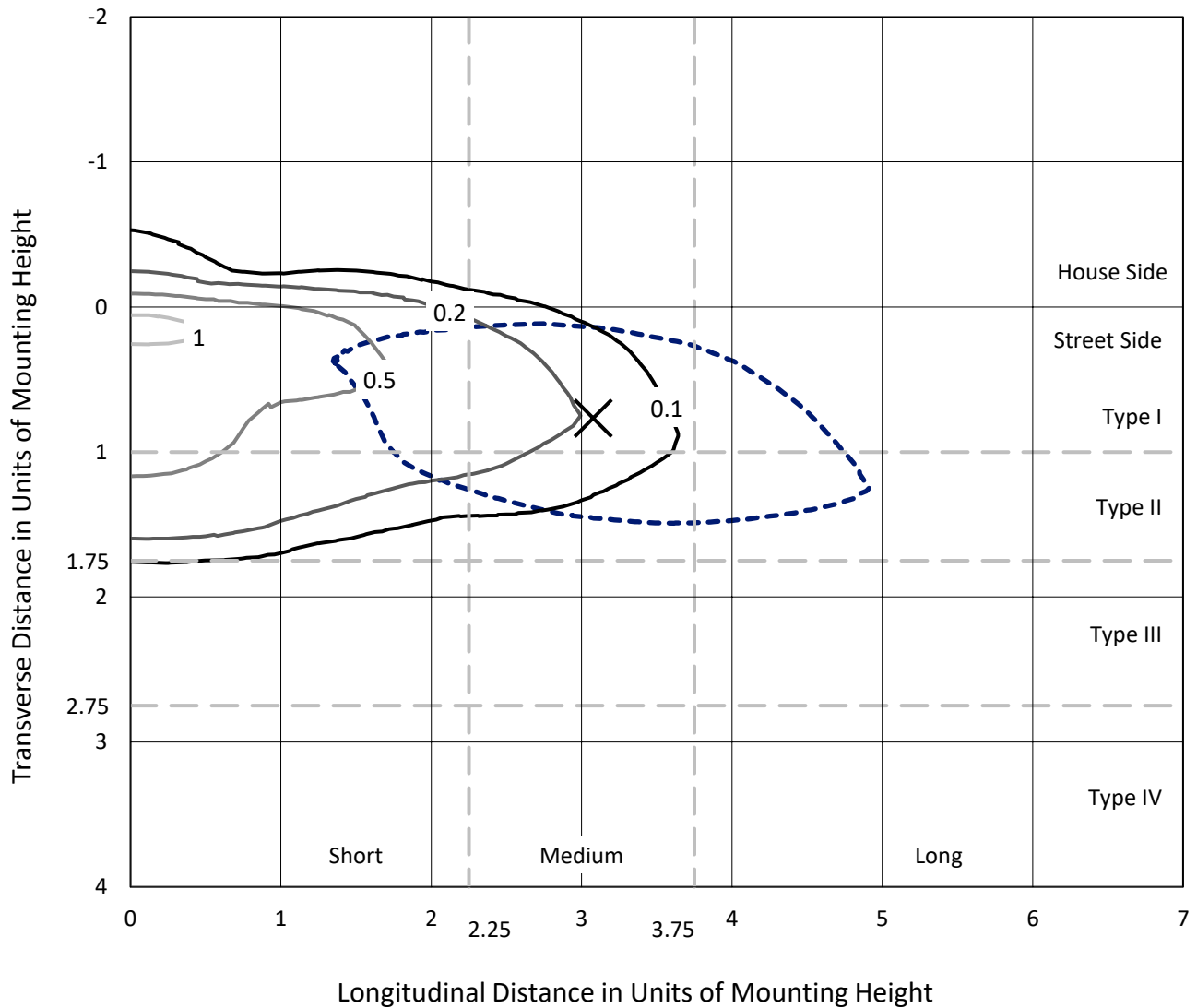
Lumens per Lamp: N/A  
Luminaire Lumens: 3163 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

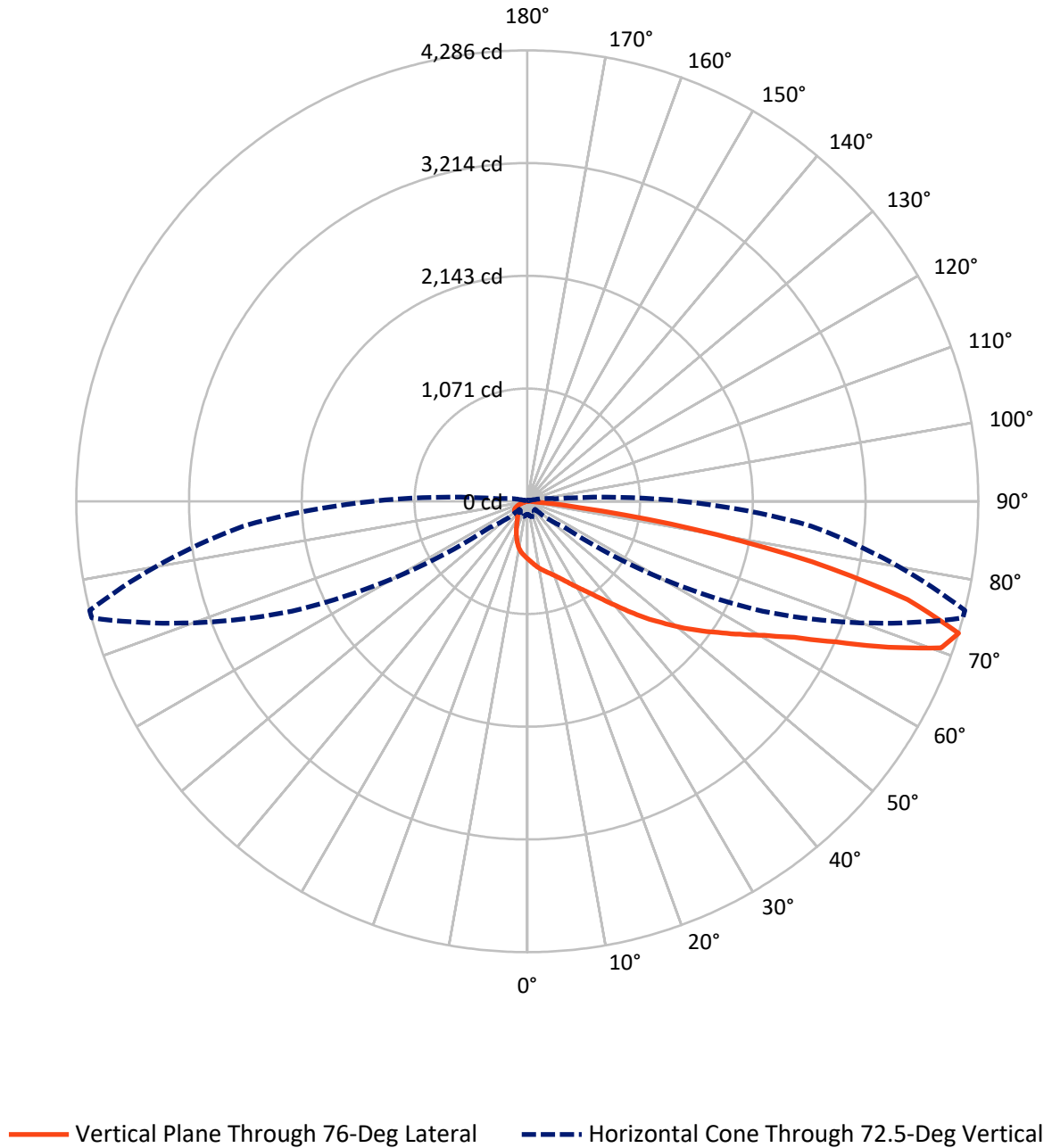
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	323.7	0.0	323.7
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	2839.3	0.0	2839.3
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	3163.0	0.0	3163.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.7	1.6
10°-20°	133.3	4.2
20°-30°	211.0	6.7
30°-40°	326.4	10.3
40°-50°	495.8	15.7
50°-60°	683.4	21.6
60°-70°	722.0	22.8
70°-80°	495.3	15.7
80°-90°	46.1	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°	3163.0	100.0
0°-180°	3163.0	100.0

**Coefficient of Utilization**



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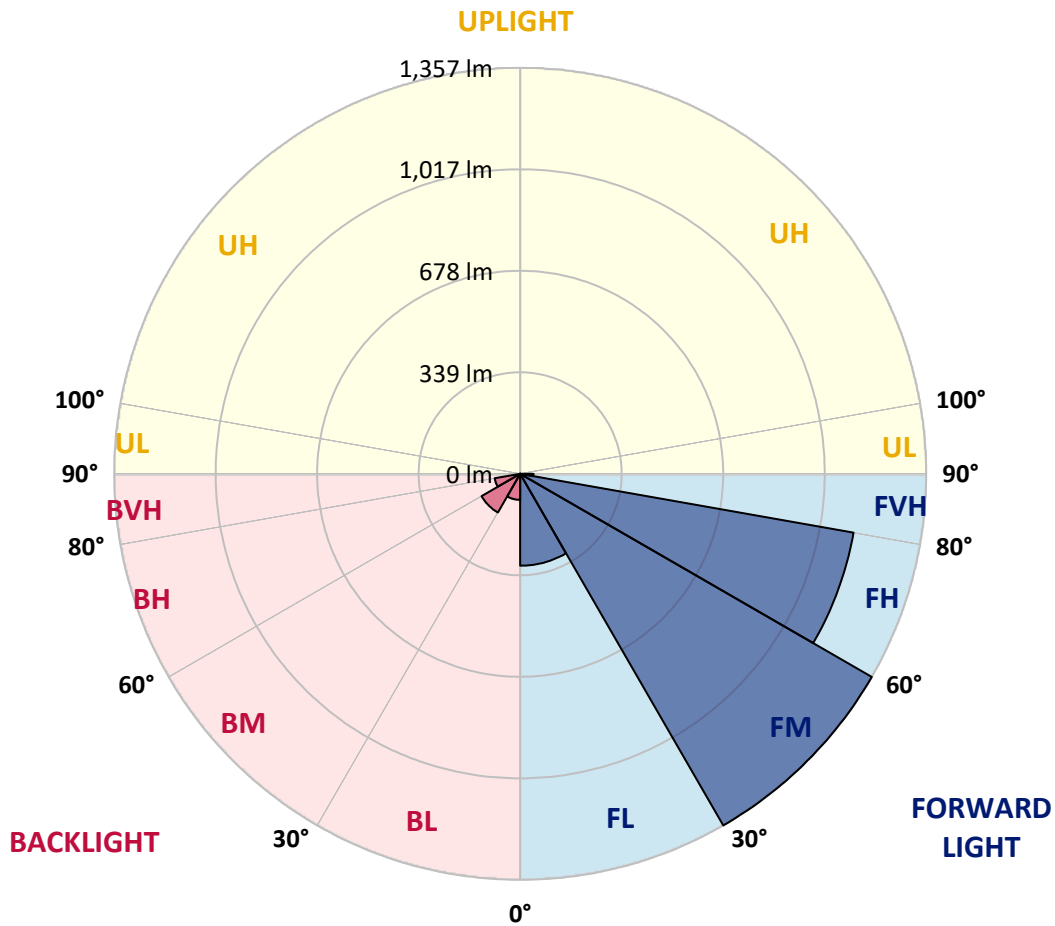
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.0	9.7			
FM (30°-60°)	1356.5	42.9			
FH (60°-80°)	1130.9	35.8			G1/1800
FVH (80°-90°)	44.9	1.4			G1/100
BL (0°-30°)	87.0	2.8	B0/110		
BM (30°-60°)	149.0	4.7	B0/220		
BH (60°-80°)	86.4	2.7	B0/110		G0/110
BVH (80°-90°)	1.2	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°	76°
0°	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6
2.5°	635.4	627.0	628.7	620.3	616.4	606.9	597.1	584.1	569.8	569.8
5°	702.3	697.0	697.0	687.1	679.5	664.8	647.1	624.4	597.3	594.6
7.5°	743.4	740.1	742.1	736.4	730.2	714.8	693.9	664.2	625.8	622.5
10°	751.4	751.2	756.9	758.5	762.6	754.8	736.2	701.9	653.9	649.2
12.5°	720.4	716.5	730.6	747.3	770.6	781.1	771.5	736.4	679.5	673.0
15°	669.5	670.3	683.9	709.5	748.5	785.8	798.3	770.0	705.6	697.8
17.5°	640.4	637.3	649.0	672.0	715.0	767.8	810.9	801.4	733.3	724.5
20°	636.9	636.7	639.3	649.8	682.6	741.9	809.4	832.0	765.9	755.7
22.5°	661.1	660.7	658.4	656.4	665.4	716.7	803.3	861.1	804.9	793.8
25°	698.2	697.6	694.1	681.6	672.8	703.1	797.5	888.2	851.1	838.8
27.5°	743.6	743.2	736.8	717.9	695.1	704.4	794.7	916.1	904.4	892.3
30°	799.2	798.3	785.2	758.5	728.8	723.9	798.6	947.5	960.0	950.8
32.5°	868.9	866.7	849.4	809.2	767.6	749.9	805.9	979.7	1025.9	1017.3
35°	922.9	919.4	909.3	873.9	812.5	781.9	823.2	1017.9	1105.1	1097.5
37.5°	969.3	965.8	957.6	928.4	876.9	822.8	850.9	1068.8	1198.6	1195.0
40°	1019.3	1013.6	1009.7	978.5	931.9	881.6	890.5	1128.3	1306.4	1306.8
42.5°	1057.9	1055.6	1056.1	1032.0	985.1	951.4	943.0	1195.4	1435.4	1439.3
45°	1090.9	1089.1	1096.7	1079.9	1038.6	997.2	1004.6	1271.3	1576.6	1584.6
47.5°	1116.4	1118.4	1129.3	1118.4	1094.2	1029.4	1059.1	1353.1	1724.9	1726.0
50°	1141.8	1142.6	1160.7	1155.4	1145.5	1070.2	1109.4	1444.7	1881.3	1883.1
52.5°	1149.8	1148.6	1177.3	1190.4	1190.9	1120.7	1174.4	1544.4	2034.5	2040.5
55°	1108.8	1112.3	1158.6	1212.0	1233.1	1190.4	1262.3	1670.6	2197.9	2200.3
57.5°	908.1	927.4	1030.0	1153.7	1260.4	1290.4	1388.4	1818.1	2386.4	2384.2
60°	551.1	574.1	696.8	967.6	1171.4	1390.7	1574.3	2046.6	2592.4	2586.1
62.5°	308.2	315.2	354.3	579.2	890.9	1326.9	1755.9	2340.3	2869.0	2847.5
65°	227.1	229.4	238.6	283.8	437.8	1020.6	1716.1	2691.3	3257.6	3219.2
67.5°	197.4	199.6	208.7	214.8	195.5	536.1	1413.9	2886.0	3751.1	3700.8
70°	166.2	167.4	182.0	186.1	139.9	203.9	908.3	2825.9	4207.8	4171.9
72.5°	123.9	128.9	150.0	159.8	112.2	108.3	427.6	2470.8	4285.1	4285.6
75°	84.1	88.6	112.8	131.5	86.6	75.9	172.6	1845.0	3731.4	3731.4
77.5°	57.4	61.1	78.6	103.2	65.7	52.1	89.5	1171.0	2677.0	2771.1
80°	25.4	27.7	50.7	74.9	49.9	33.6	50.7	641.2	1618.9	1599.0
82.5°	12.5	14.4	32.4	46.8	32.2	20.7	26.7	304.9	524.6	498.6
85°	2.5	3.3	17.4	19.9	15.0	9.2	10.1	93.8	63.2	72.2
87.5°	0.0	0.0	5.3	3.7	1.6	2.1	2.1	8.4	4.9	5.7
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°
546.6	0°	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6
555.8	2.5°	548.4	540.8	524.2	507.8	491.0	475.6	464.9	454.3	447.7	444.8
568.1	5°	552.7	537.4	502.5	466.0	429.8	394.6	368.1	343.3	335.5	322.5
582.7	7.5°	559.5	534.5	479.5	417.9	359.3	307.6	270.2	240.5	228.6	217.1
595.2	10°	564.0	529.2	449.1	366.9	287.5	229.4	193.7	172.1	164.3	157.4
606.9	12.5°	565.9	519.3	414.3	309.6	223.6	174.8	153.5	143.4	140.8	138.3
618.0	15°	567.5	509.7	375.3	254.4	176.7	146.3	137.9	134.6	132.8	131.1
629.3	17.5°	569.0	497.4	330.7	206.8	149.2	134.8	130.7	127.2	125.8	123.9
645.5	20°	573.9	485.5	290.9	170.7	134.2	126.6	122.1	118.4	117.2	115.9
668.5	22.5°	583.1	475.8	252.4	146.3	125.2	118.2	112.4	108.3	107.5	106.7
696.4	25°	594.2	463.9	216.1	130.5	116.3	108.5	102.2	98.7	97.9	98.1
728.6	27.5°	608.4	450.8	184.9	120.4	108.5	99.5	92.3	89.7	90.1	90.9
765.7	30°	623.9	438.7	160.4	113.5	101.6	91.5	84.3	82.5	83.9	85.1
815.4	32.5°	647.1	428.0	143.4	107.9	95.4	84.9	79.2	76.9	78.6	80.2
878.8	35°	678.7	422.7	133.8	103.2	90.1	79.8	74.1	72.4	74.1	74.5
956.1	37.5°	717.5	422.3	129.7	99.3	85.1	75.5	69.1	68.5	69.8	70.0
1049.1	40°	767.6	424.9	126.6	96.4	80.0	70.6	64.6	64.0	64.4	65.9
1160.9	42.5°	831.0	436.0	122.3	92.7	74.5	65.7	60.9	59.5	59.3	60.9
1286.1	45°	910.6	460.4	116.5	86.8	69.6	61.6	56.8	55.2	54.6	55.0
1415.3	47.5°	997.4	490.4	110.8	81.3	66.1	58.3	53.6	51.5	50.5	50.5
1536.2	50°	1081.5	524.2	106.9	75.5	63.6	55.2	50.1	48.0	46.4	46.0
1660.5	52.5°	1164.8	557.5	103.8	69.8	60.7	51.3	46.8	44.5	42.7	41.9
1783.6	55°	1240.7	589.1	98.5	64.2	57.0	47.2	43.5	41.2	39.0	37.5
1908.4	57.5°	1313.5	615.3	88.6	58.5	51.3	43.3	40.0	37.5	34.9	33.0
2034.5	60°	1379.8	628.9	76.3	52.3	45.5	39.2	36.1	33.9	30.4	27.3
2158.7	62.5°	1430.3	623.5	63.0	45.3	39.6	35.5	31.6	29.3	25.2	21.5
2307.4	65°	1482.0	594.4	50.3	38.0	34.7	30.6	26.5	24.2	19.5	15.6
2508.7	67.5°	1549.1	532.2	39.6	31.6	30.0	24.2	20.7	19.3	16.0	12.3
2724.8	70°	1592.2	413.4	30.8	25.6	24.6	17.6	16.0	15.8	12.7	9.4
2710.2	72.5°	1474.0	271.0	23.6	19.5	17.6	11.5	12.3	12.3	9.2	6.4
2375.8	75°	1230.5	158.6	17.0	14.0	10.1	7.4	8.4	8.4	5.7	3.1
1693.3	77.5°	878.8	84.5	11.3	8.6	5.1	3.3	4.5	4.3	1.8	0.2
663.8	80°	336.1	29.1	5.3	3.5	1.4	0.6	0.4	0.2	0.2	0.0
103.6	82.5°	51.3	7.6	1.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
22.0	85°	9.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.7	87.5°	2.1	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>
546.6
445.2
323.4
216.9
157.2
138.3
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123.9
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106.1
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