

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: P945528

Luminaire Tested: **GALN-SB1B-950-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945528  
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-950-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

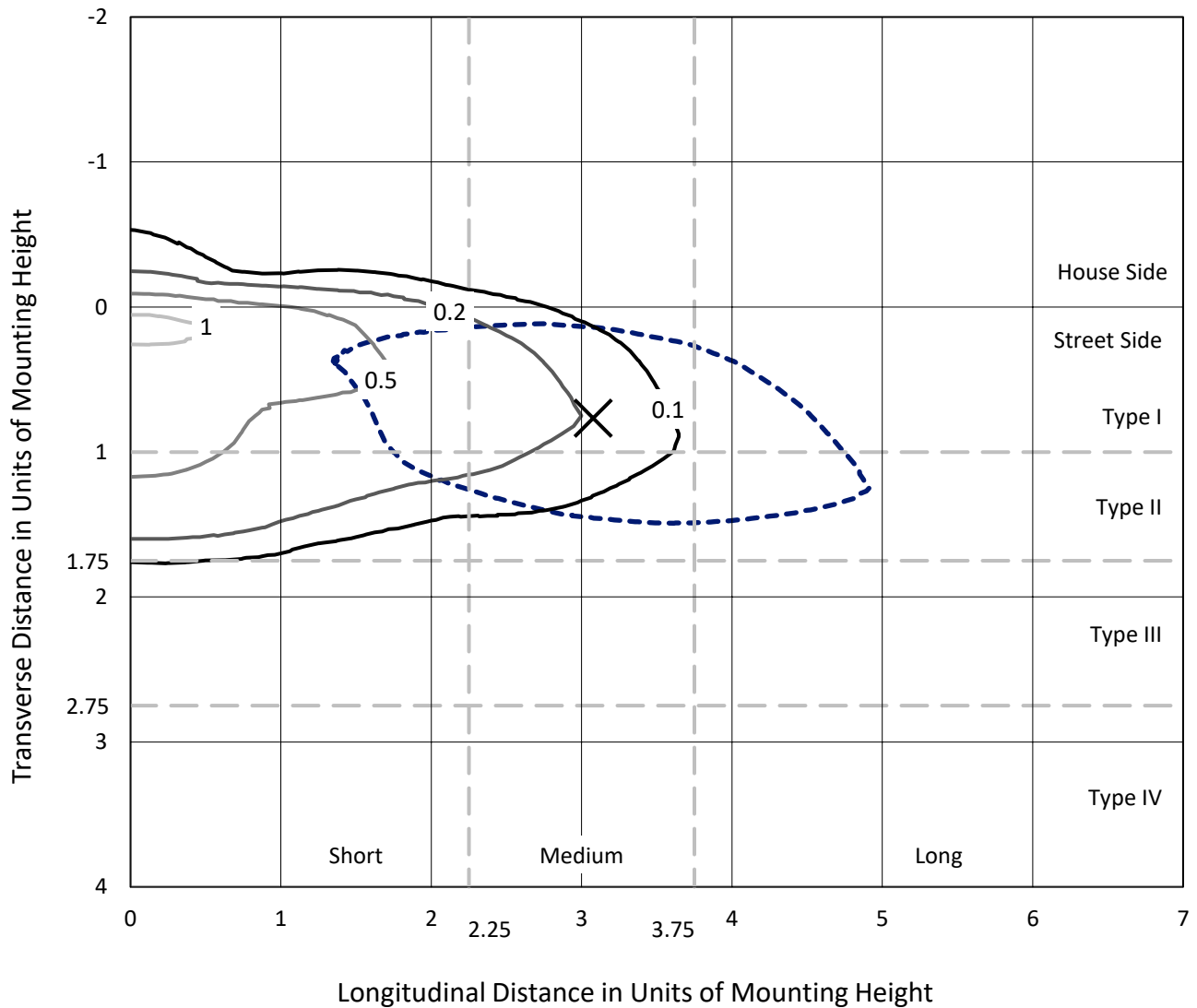
Lumens per Lamp: N/A  
Luminaire Lumens: 3176 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

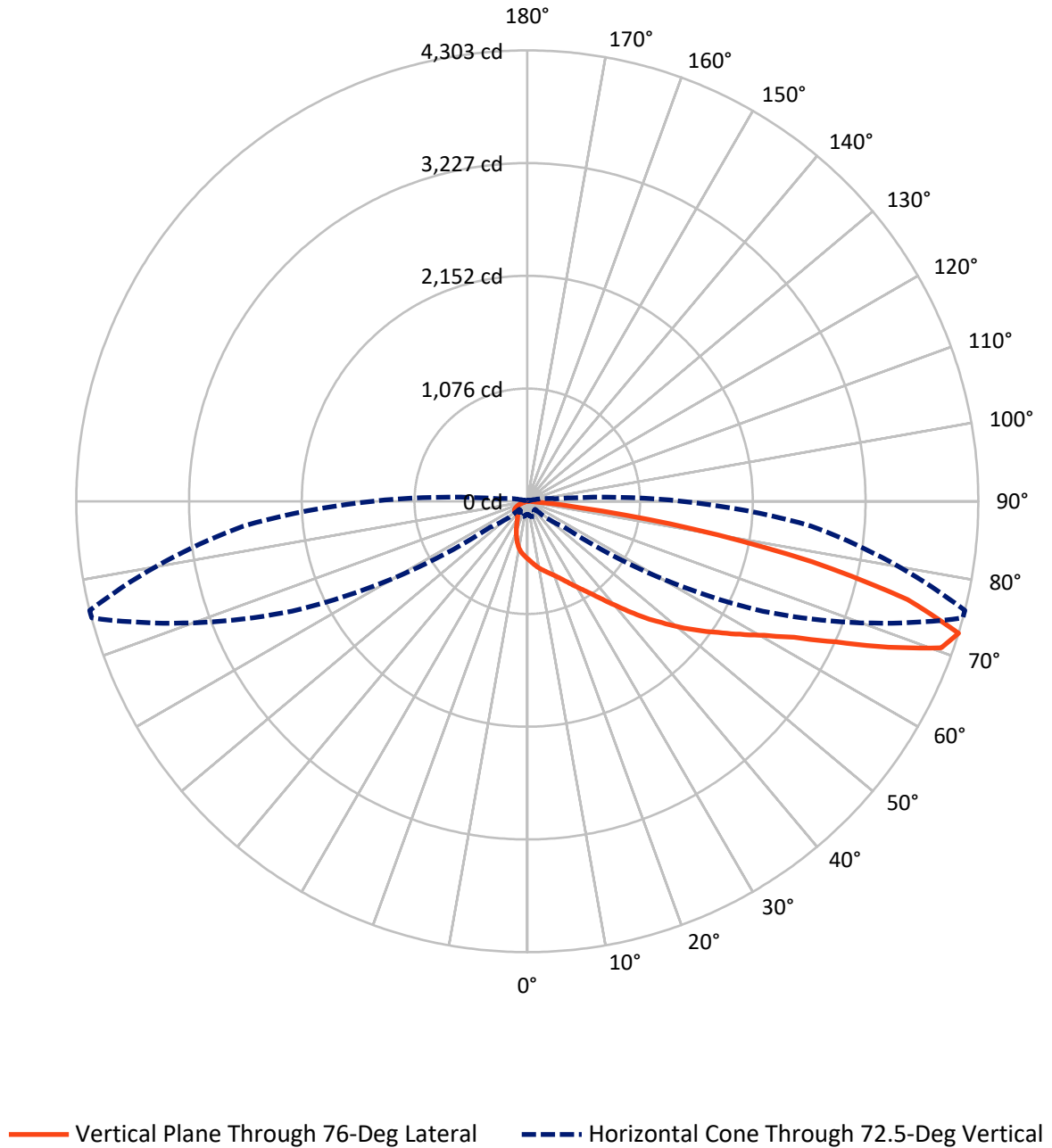
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	325.1	0.0	325.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	2850.9	0.0	2850.9
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	3176.0	0.0	3176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.9	1.6
10°-20°	133.8	4.2
20°-30°	211.8	6.7
30°-40°	327.7	10.3
40°-50°	497.8	15.7
50°-60°	686.2	21.6
60°-70°	725.0	22.8
70°-80°	497.4	15.7
80°-90°	46.3	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°	3176.0	100.0
0°-180°	3176.0	100.0

**Coefficient of Utilization**



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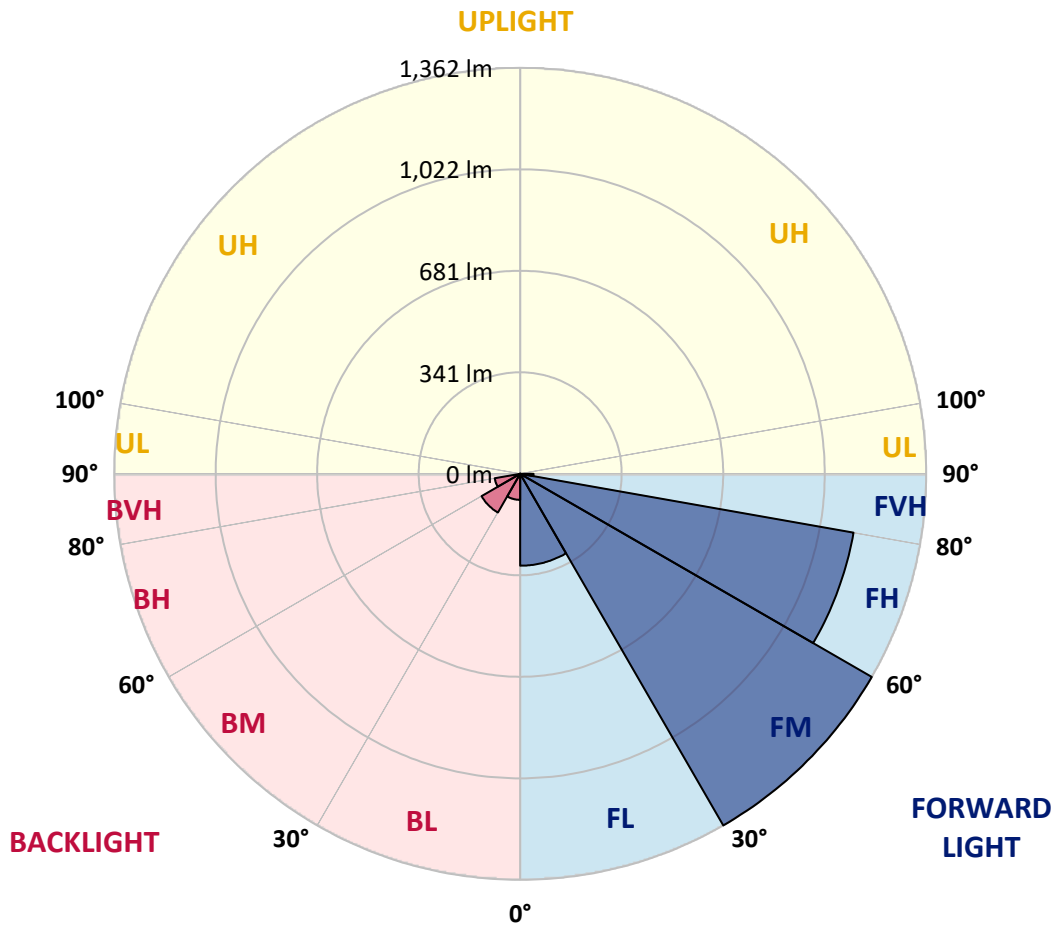
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.2	9.7			
FM (30°-60°)	1362.1	42.9			
FH (60°-80°)	1135.6	35.8			G1/1800
FVH (80°-90°)	45.0	1.4			G1/100
BL (0°-30°)	87.4	2.8	B0/110		
BM (30°-60°)	149.7	4.7	B0/220		
BH (60°-80°)	86.8	2.7	B0/110		G0/110
BVH (80°-90°)	1.3	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°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
2.5°	638.0	629.6	631.2	622.8	618.9	609.4	599.5	586.5	572.1	572.1
5°	705.2	699.9	699.9	690.0	682.3	667.5	649.8	626.9	599.7	597.0
7.5°	746.4	743.1	745.2	739.4	733.2	717.8	696.8	666.9	628.4	625.1
10°	754.4	754.2	760.0	761.7	765.8	758.0	739.2	704.8	656.6	651.9
12.5°	723.3	719.4	733.6	750.3	773.8	784.3	774.6	739.4	682.3	675.7
15°	672.2	673.1	686.7	712.4	751.6	789.1	801.6	773.2	708.5	700.7
17.5°	643.0	639.9	651.6	674.7	718.0	770.9	814.2	804.7	736.3	727.5
20°	639.5	639.3	642.0	652.5	685.4	745.0	812.8	835.4	769.1	758.8
22.5°	663.8	663.4	661.1	659.1	668.1	719.6	806.6	864.7	808.2	797.1
25°	701.1	700.5	697.0	684.4	675.5	706.0	800.8	891.9	854.6	842.2
27.5°	746.6	746.2	739.8	720.9	698.0	707.3	797.9	919.9	908.1	896.0
30°	802.5	801.6	788.4	761.7	731.8	726.8	801.8	951.4	964.0	954.7
32.5°	872.5	870.2	852.9	812.5	770.7	753.0	809.3	983.8	1030.1	1021.5
35°	926.7	923.2	913.1	877.4	815.8	785.1	826.6	1022.1	1109.6	1102.0
37.5°	973.2	969.7	961.5	932.2	880.5	826.1	854.4	1073.2	1203.6	1199.9
40°	1023.5	1017.7	1013.8	982.5	935.7	885.3	894.1	1132.9	1311.7	1312.1
42.5°	1062.2	1060.0	1060.4	1036.3	989.1	955.3	946.9	1200.3	1441.3	1445.2
45°	1095.4	1093.6	1101.2	1084.3	1042.9	1001.3	1008.7	1276.5	1583.1	1591.1
47.5°	1121.0	1123.0	1133.9	1123.0	1098.7	1033.6	1063.5	1358.7	1732.0	1733.1
50°	1146.5	1147.3	1165.5	1160.1	1150.2	1074.6	1114.0	1450.6	1889.0	1890.9
52.5°	1154.5	1153.3	1182.1	1195.3	1195.7	1125.3	1179.3	1550.7	2042.9	2048.9
55°	1113.3	1116.8	1163.4	1217.0	1238.2	1195.3	1267.4	1677.4	2206.9	2209.4
57.5°	911.8	931.2	1034.2	1158.5	1265.6	1295.7	1394.1	1825.6	2396.2	2394.0
60°	553.4	576.4	699.6	971.6	1176.2	1396.4	1580.8	2055.1	2603.1	2596.7
62.5°	309.4	316.4	355.8	581.6	894.5	1332.3	1763.1	2349.9	2880.8	2859.2
65°	228.1	230.3	239.6	284.9	439.6	1024.7	1723.2	2702.4	3271.0	3232.5
67.5°	198.2	200.5	209.5	215.7	196.3	538.3	1419.7	2897.9	3766.5	3716.0
70°	166.9	168.1	182.7	186.9	140.5	204.8	912.1	2837.5	4225.1	4189.0
72.5°	124.4	129.4	150.6	160.5	112.7	108.8	429.3	2480.9	4302.8	4303.2
75°	84.5	89.0	113.3	132.1	86.9	76.2	173.3	1852.5	3746.7	3746.7
77.5°	57.7	61.4	78.9	103.6	65.9	52.3	89.8	1175.8	2688.0	2782.5
80°	25.5	27.8	50.9	75.2	50.1	33.8	50.9	643.8	1625.5	1605.5
82.5°	12.6	14.4	32.6	47.0	32.3	20.8	26.8	306.1	526.8	500.6
85°	2.5	3.3	17.5	20.0	15.0	9.3	10.1	94.2	63.5	72.5
87.5°	0.0	0.0	5.4	3.7	1.6	2.1	2.1	8.4	4.9	5.8
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°
548.8	0°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
558.1	2.5°	550.7	543.1	526.4	509.9	493.0	477.6	466.8	456.1	449.5	446.7
570.5	5°	555.0	539.6	504.5	467.9	431.6	396.2	369.6	344.7	336.8	323.9
585.1	7.5°	561.8	536.7	481.5	419.7	360.7	308.8	271.3	241.5	229.5	218.0
597.7	10°	566.4	531.3	451.0	368.4	288.6	230.3	194.5	172.9	165.0	158.0
609.4	12.5°	568.2	521.4	416.0	310.9	224.6	175.5	154.1	144.0	141.3	138.9
620.5	15°	569.9	511.8	376.8	255.5	177.4	146.9	138.4	135.1	133.3	131.6
631.9	17.5°	571.3	499.4	332.1	207.7	149.8	135.4	131.2	127.7	126.3	124.4
648.1	20°	576.2	487.4	292.1	171.4	134.7	127.1	122.6	118.9	117.6	116.4
671.2	22.5°	585.5	477.8	253.4	146.9	125.7	118.7	112.9	108.8	108.0	107.1
699.2	25°	596.6	465.8	216.9	131.0	116.8	109.0	102.6	99.1	98.3	98.5
731.6	27.5°	610.9	452.6	185.6	120.9	109.0	99.9	92.7	90.0	90.4	91.3
768.9	30°	626.5	440.5	161.1	113.9	102.0	91.9	84.7	82.8	84.3	85.5
818.7	32.5°	649.8	429.8	144.0	108.4	95.8	85.3	79.5	77.3	78.9	80.6
882.4	35°	681.5	424.4	134.3	103.6	90.4	80.1	74.4	72.7	74.4	74.8
960.1	37.5°	720.5	424.0	130.2	99.7	85.5	75.8	69.4	68.8	70.0	70.3
1053.4	40°	770.7	426.7	127.1	96.8	80.3	70.9	64.9	64.3	64.7	66.1
1165.7	42.5°	834.4	437.8	122.8	93.1	74.8	65.9	61.2	59.7	59.5	61.2
1291.3	45°	914.3	462.3	117.0	87.1	69.8	61.8	57.1	55.4	54.8	55.2
1421.1	47.5°	1001.5	492.4	111.3	81.6	66.3	58.5	53.8	51.7	50.7	50.7
1542.5	50°	1085.9	526.4	107.3	75.8	63.9	55.4	50.3	48.2	46.6	46.1
1667.3	52.5°	1169.6	559.8	104.2	70.0	61.0	51.5	47.0	44.7	42.9	42.0
1790.9	55°	1245.8	591.5	98.9	64.5	57.3	47.4	43.7	41.4	39.1	37.7
1916.2	57.5°	1318.9	617.9	89.0	58.7	51.5	43.5	40.2	37.7	35.0	33.2
2042.9	60°	1385.5	631.5	76.6	52.5	45.7	39.4	36.3	34.0	30.5	27.4
2167.5	62.5°	1436.2	626.1	63.2	45.5	39.8	35.6	31.7	29.5	25.3	21.6
2316.9	65°	1488.1	596.8	50.5	38.1	34.8	30.7	26.6	24.3	19.6	15.7
2519.0	67.5°	1555.5	534.4	39.8	31.7	30.1	24.3	20.8	19.4	16.1	12.4
2736.0	70°	1598.7	415.1	30.9	25.8	24.7	17.7	16.1	15.9	12.8	9.5
2721.3	72.5°	1480.1	272.2	23.7	19.6	17.7	11.5	12.4	12.4	9.3	6.4
2385.5	75°	1235.5	159.3	17.1	14.0	10.1	7.4	8.4	8.4	5.8	3.1
1700.3	77.5°	882.4	84.9	11.3	8.7	5.2	3.3	4.5	4.3	1.9	0.2
666.5	80°	337.5	29.3	5.4	3.5	1.4	0.6	0.4	0.2	0.2	0.0
104.0	82.5°	51.5	7.6	1.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
22.0	85°	9.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.8	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>
548.8
447.1
324.7
217.8
157.8
138.9
131.6
124.4
116.6
106.5
98.1
90.9
85.1
80.1
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61.0
55.8
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