

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: P945311

Luminaire Tested: **GALN-SB1B-750-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-750-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

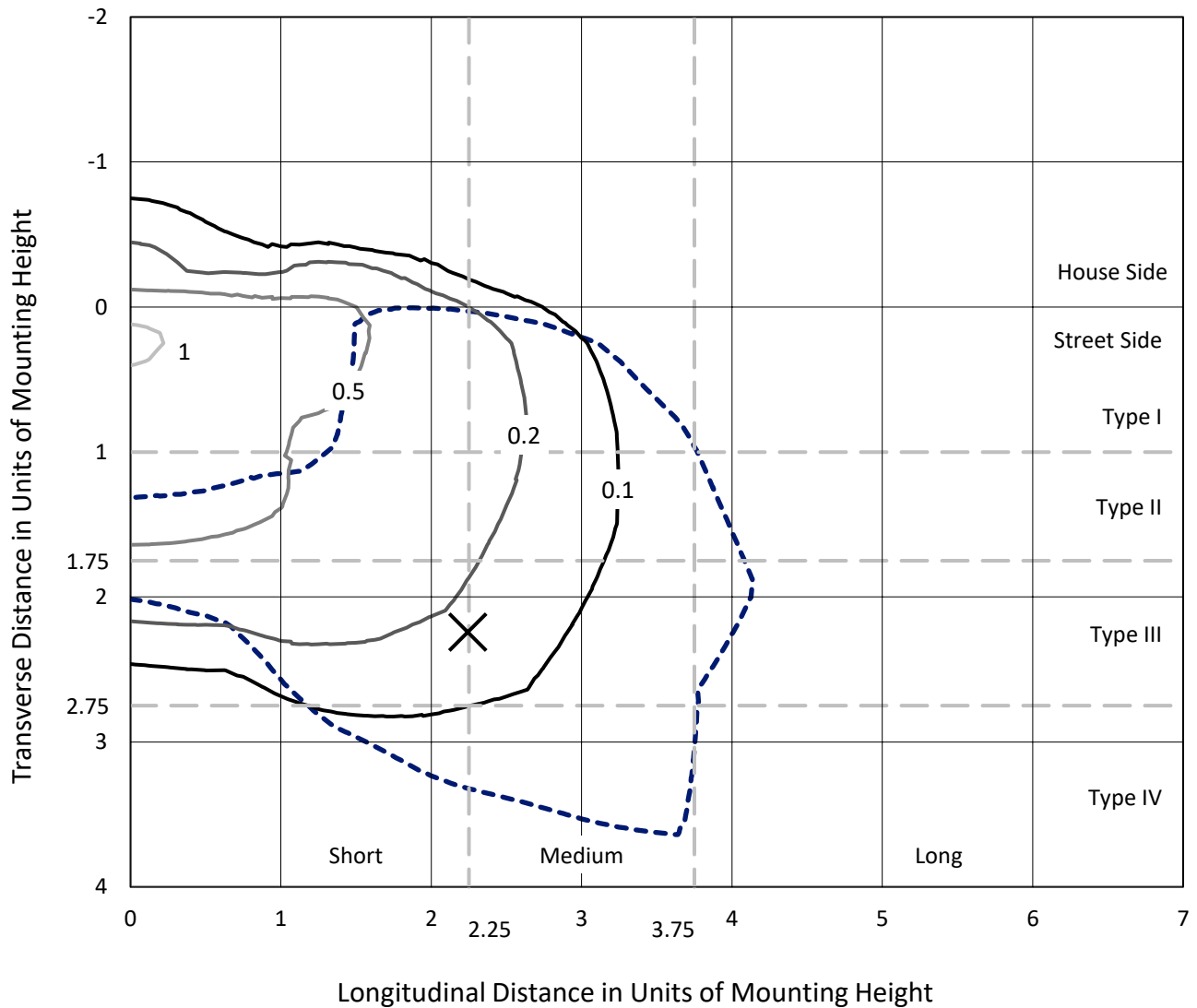
Lumens per Lamp: N/A  
Luminaire Lumens: 4590 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

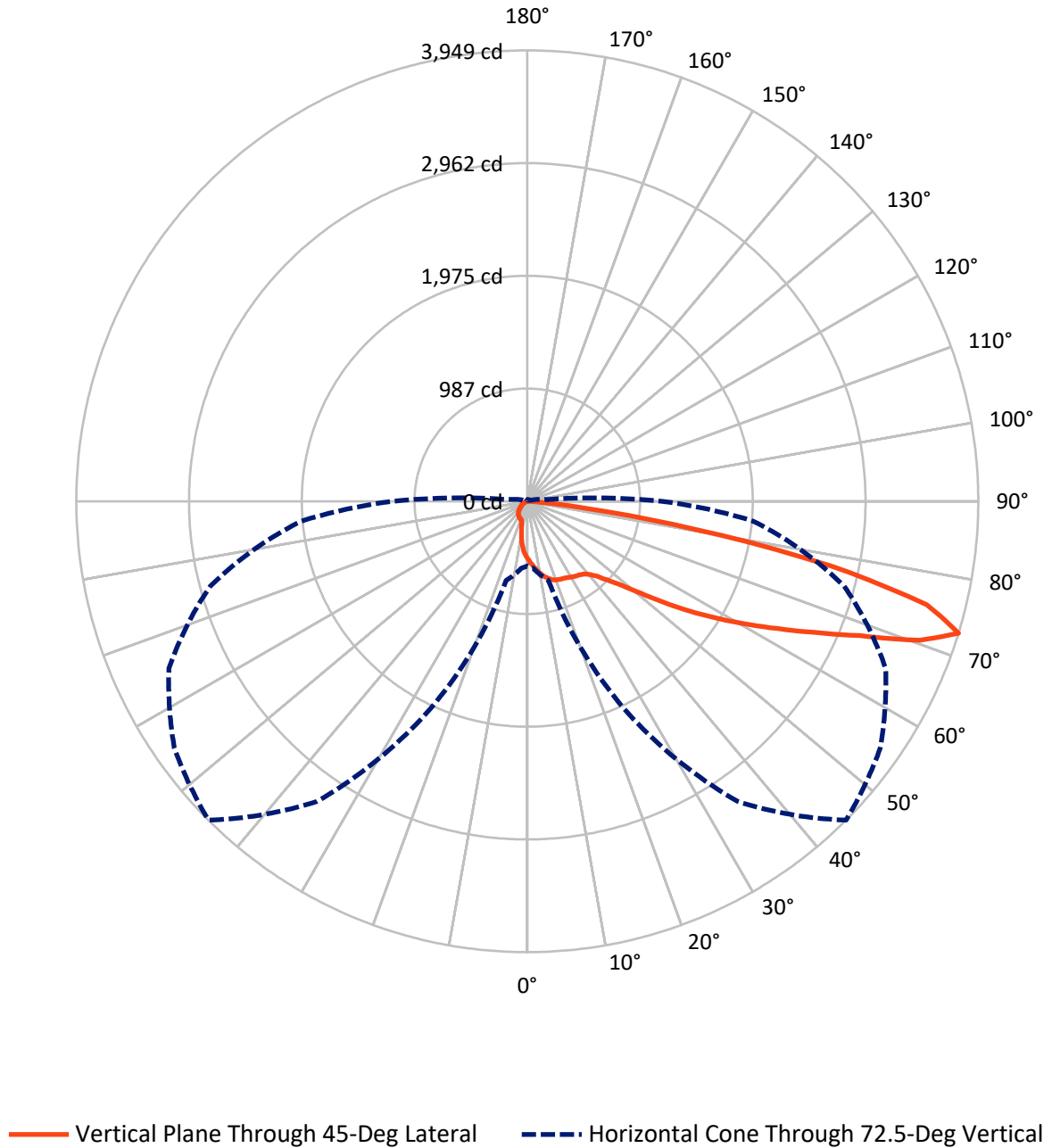
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	482.3	0.0	482.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4107.7	0.0	4107.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4590.0	0.0	4590.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	1.0
10°-20°	138.5	3.0
20°-30°	227.4	5.0
30°-40°	322.5	7.0
40°-50°	533.0	11.6
50°-60°	957.5	20.9
60°-70°	1329.6	29.0
70°-80°	964.4	21.0
80°-90°	69.7	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°	4590.0	100.0
0°-180°	4590.0	100.0

**Coefficient of Utilization**



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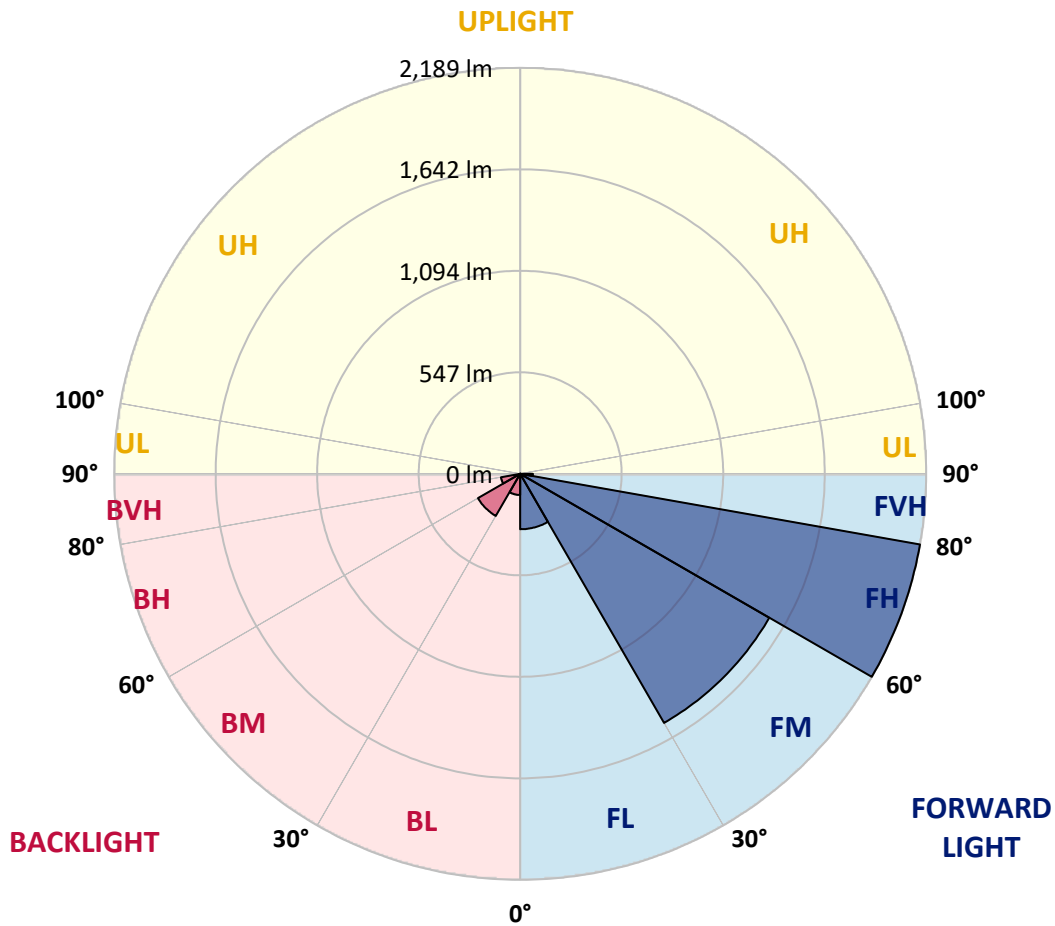
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.0	6.5			
FM (30°-60°)	1550.7	33.8			
FH (60°-80°)	2188.8	47.7			G2/5000
FVH (80°-90°)	69.1	1.5			G1/100
BL (0°-30°)	114.2	2.5	B1/500		
BM (30°-60°)	262.3	5.7	B1/1000		
BH (60°-80°)	105.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	549.2	550.2	549.5	545.8	539.5	536.1	534.2	527.9	523.8	516.6
5°	599.7	603.4	601.2	593.7	581.8	573.3	570.8	558.0	546.4	532.9
7.5°	653.2	655.1	651.0	641.3	625.3	610.9	608.7	590.9	572.4	551.7
10°	699.6	701.8	695.5	681.4	663.3	645.4	642.3	622.5	600.6	575.2
12.5°	738.4	740.6	732.5	715.6	695.5	677.0	673.9	653.2	629.1	600.9
15°	767.9	772.0	761.0	742.8	721.2	702.7	701.2	680.8	657.3	626.0
17.5°	785.1	789.2	778.9	756.9	738.4	722.8	720.9	704.0	682.1	652.0
20°	787.9	791.7	780.7	761.6	746.3	733.7	732.8	720.6	704.6	675.8
22.5°	779.5	784.2	774.2	758.8	748.2	741.6	740.3	733.4	724.3	699.9
25°	770.7	774.5	767.0	753.5	747.8	747.2	748.2	746.9	745.0	724.3
27.5°	770.1	774.2	765.7	752.9	749.7	756.3	757.2	763.2	764.8	746.6
30°	775.4	778.2	770.1	756.6	755.0	770.1	770.4	781.1	783.6	765.4
32.5°	787.0	790.1	782.0	762.3	760.1	781.1	782.0	796.1	800.2	785.4
35°	814.3	818.0	808.6	777.9	770.1	791.4	794.2	810.8	819.0	806.7
37.5°	882.2	871.3	858.4	809.6	793.0	807.7	812.4	831.8	846.2	832.1
40°	1051.1	1016.7	976.6	863.5	833.1	842.5	846.2	865.6	885.4	871.6
42.5°	1304.6	1263.8	1199.3	987.5	893.5	898.2	901.0	918.0	945.8	934.9
45°	1530.5	1515.7	1449.9	1199.3	1006.6	983.4	986.9	995.7	1036.7	1032.6
47.5°	1704.0	1695.6	1644.8	1442.4	1197.7	1087.8	1097.5	1101.6	1160.8	1175.2
50°	1837.5	1834.4	1788.9	1658.6	1447.4	1241.6	1245.0	1236.3	1324.9	1360.7
52.5°	1963.4	1974.1	1940.6	1859.4	1714.1	1443.1	1442.4	1401.1	1520.8	1574.6
55°	2077.2	2080.9	2084.4	2064.3	1982.2	1672.4	1666.4	1598.8	1747.9	1803.7
57.5°	2184.0	2185.6	2216.3	2257.3	2261.4	1918.6	1907.7	1826.5	1996.0	2035.8
60°	2255.7	2263.0	2327.8	2441.8	2491.7	2172.7	2166.8	2084.1	2248.5	2267.0
62.5°	2152.4	2196.2	2359.8	2586.0	2709.1	2454.4	2451.6	2373.9	2514.2	2499.2
65°	1742.3	1816.5	2104.1	2683.4	2922.4	2768.9	2773.0	2690.3	2787.1	2738.2
67.5°	1218.7	1297.1	1637.3	2691.2	3160.9	3138.3	3161.8	3032.1	3076.9	2967.3
70°	842.8	883.2	1104.7	2522.7	3346.7	3647.1	3646.5	3451.9	3365.1	3071.6
72.5°	566.8	587.7	717.5	2001.4	3210.1	3949.4	3931.3	3772.7	3462.3	2872.6
75°	239.0	254.4	332.1	1124.7	2539.6	3613.3	3564.1	3334.1	3076.3	2262.0
77.5°	75.8	82.4	131.0	402.6	1398.9	2716.0	2664.0	2082.2	2061.8	1134.8
80°	36.0	42.0	73.6	161.7	550.5	1477.2	1470.0	944.6	886.9	306.4
82.5°	15.7	18.5	40.7	86.5	246.3	527.0	537.6	321.4	266.0	116.2
85°	5.0	6.6	18.8	39.8	104.0	131.0	129.4	76.4	107.1	63.3
87.5°	0.0	0.0	6.3	9.1	10.7	7.5	8.5	6.6	29.8	17.5
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°
502.8	0°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
509.1	2.5°	505.4	500.3	491.6	483.4	476.2	469.0	464.6	458.4	457.7	457.7
517.3	5°	508.8	500.7	485.0	468.4	449.3	431.1	412.9	395.4	389.7	385.7
530.4	7.5°	518.8	506.0	481.2	449.6	413.2	373.5	345.6	315.5	303.9	297.6
548.0	10°	533.2	515.7	478.1	422.6	363.7	309.5	269.8	237.2	224.6	219.3
567.1	12.5°	549.2	527.6	472.5	389.1	309.5	244.7	205.8	190.8	188.9	188.9
589.9	15°	568.3	542.0	462.7	349.6	252.8	193.6	179.8	180.5	182.3	183.6
612.2	17.5°	588.1	557.4	447.4	305.5	202.7	174.2	174.5	175.4	177.0	178.3
636.3	20°	609.4	572.7	427.0	258.5	173.9	168.6	169.5	170.4	171.7	172.3
658.9	22.5°	632.2	587.1	402.9	212.4	164.2	163.9	164.2	165.1	166.7	166.7
685.2	25°	656.7	603.1	375.3	178.9	159.2	159.2	159.8	160.4	161.7	161.7
710.6	27.5°	681.7	617.8	346.2	161.3	154.8	154.5	154.5	155.4	156.0	156.3
735.6	30°	709.3	635.1	317.1	157.6	151.3	149.8	148.8	149.4	150.1	150.4
761.9	32.5°	737.5	651.7	291.1	159.2	147.9	145.1	141.9	141.3	141.3	142.6
789.2	35°	768.8	669.8	271.0	164.5	146.0	138.2	133.2	130.3	130.6	132.5
821.8	37.5°	806.4	691.8	256.3	169.2	144.7	130.3	122.2	118.7	116.5	118.7
866.6	40°	855.6	724.0	245.6	172.9	143.2	121.2	110.3	104.6	100.6	101.8
936.1	42.5°	928.0	774.8	241.6	173.3	139.7	110.6	98.1	90.5	84.6	84.9
1040.8	45°	1029.5	855.0	262.5	169.2	132.2	99.0	85.2	75.2	71.4	70.5
1197.1	47.5°	1168.6	971.9	311.1	160.7	121.2	87.7	72.7	64.2	61.4	59.8
1402.3	50°	1355.0	1121.9	365.0	151.3	110.3	77.1	62.3	57.0	55.1	53.6
1645.8	52.5°	1571.2	1274.2	409.2	141.9	99.3	67.7	55.8	52.6	51.1	49.8
1880.7	55°	1769.5	1379.1	406.7	131.9	88.7	60.2	51.1	49.2	47.3	46.1
2083.1	57.5°	1893.0	1393.9	335.2	120.9	76.4	54.2	46.7	45.4	43.2	41.7
2258.3	60°	1949.7	1309.9	235.0	106.5	64.2	48.6	42.0	41.4	38.5	36.3
2424.0	62.5°	1960.0	1153.9	156.6	88.7	53.6	43.2	37.3	36.3	32.6	28.8
2558.7	65°	1918.0	930.8	108.4	69.2	45.7	37.6	32.0	30.1	26.0	22.2
2590.7	67.5°	1785.2	653.5	75.5	49.8	38.8	29.8	25.4	24.8	21.6	18.5
2427.8	70°	1541.7	372.5	50.4	37.3	30.7	20.4	20.1	20.7	17.5	15.0
1983.5	72.5°	1182.1	170.4	31.3	27.3	21.0	13.8	16.0	16.3	13.5	11.3
1237.5	75°	695.8	73.0	19.7	17.5	10.7	9.1	11.6	11.9	9.1	7.2
452.4	77.5°	236.9	27.6	12.5	10.3	5.3	5.0	7.5	7.5	5.0	2.8
90.9	80°	53.9	10.3	6.3	4.1	2.5	2.2	2.5	2.2	1.3	0.3
27.9	82.5°	15.4	4.1	2.5	1.6	0.9	0.9	0.3	0.0	0.0	0.0
9.7	85°	4.4	1.9	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	1.9	0.3	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>
502.8
459.3
387.6
298.6
219.3
188.9
183.6
178.3
172.6
167.3
162.0
156.6
151.0
143.5
133.5
118.1
101.2
83.7
69.2
58.9
53.3
49.5
45.4
41.4
35.7
26.9
21.0
17.5
13.8
10.0
6.3
2.2
0.0
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0.0
0.0

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