

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: P946502

Luminaire Tested: **GALN-SB2A-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

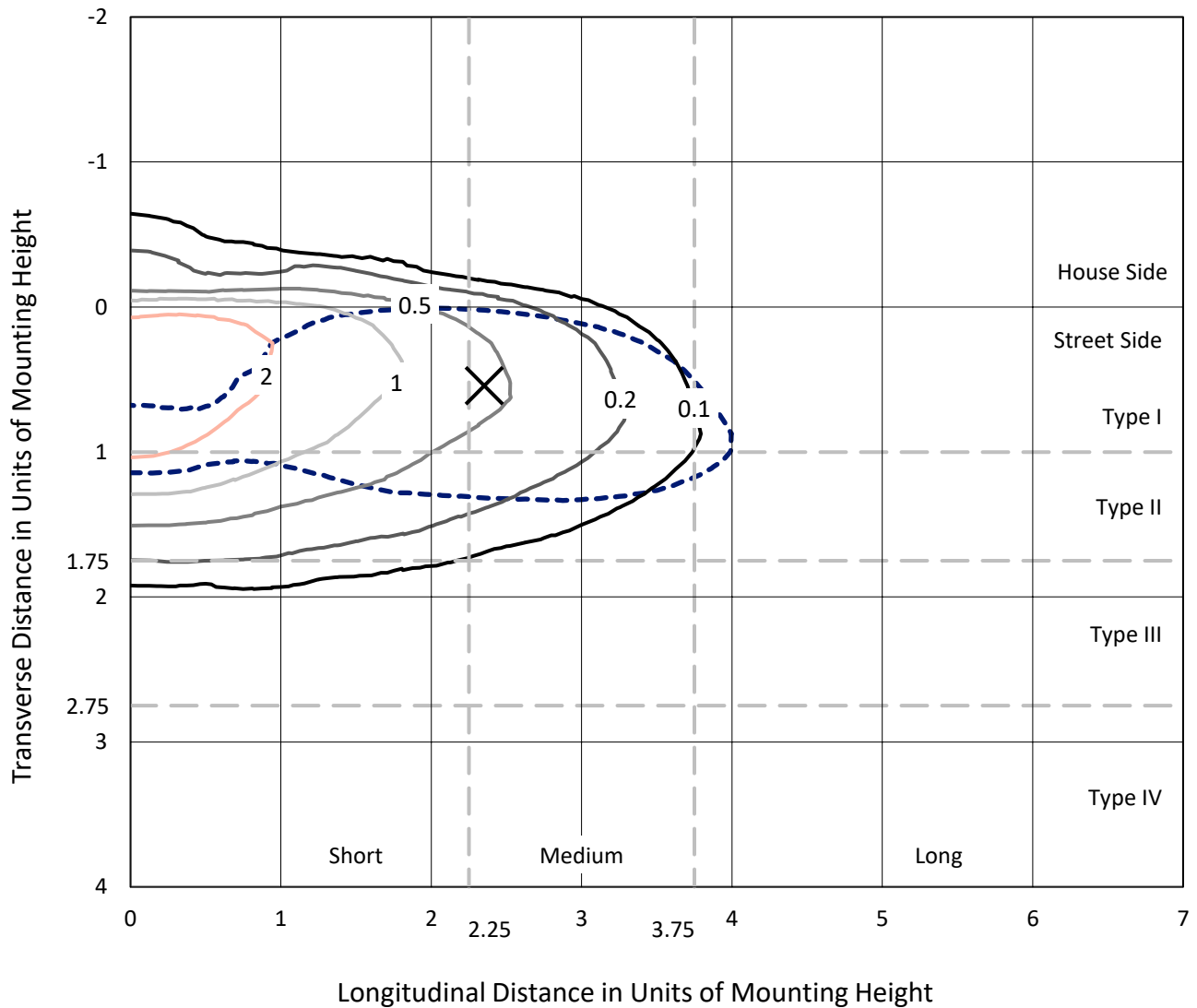
Lumens per Lamp: N/A  
Luminaire Lumens: 7265 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

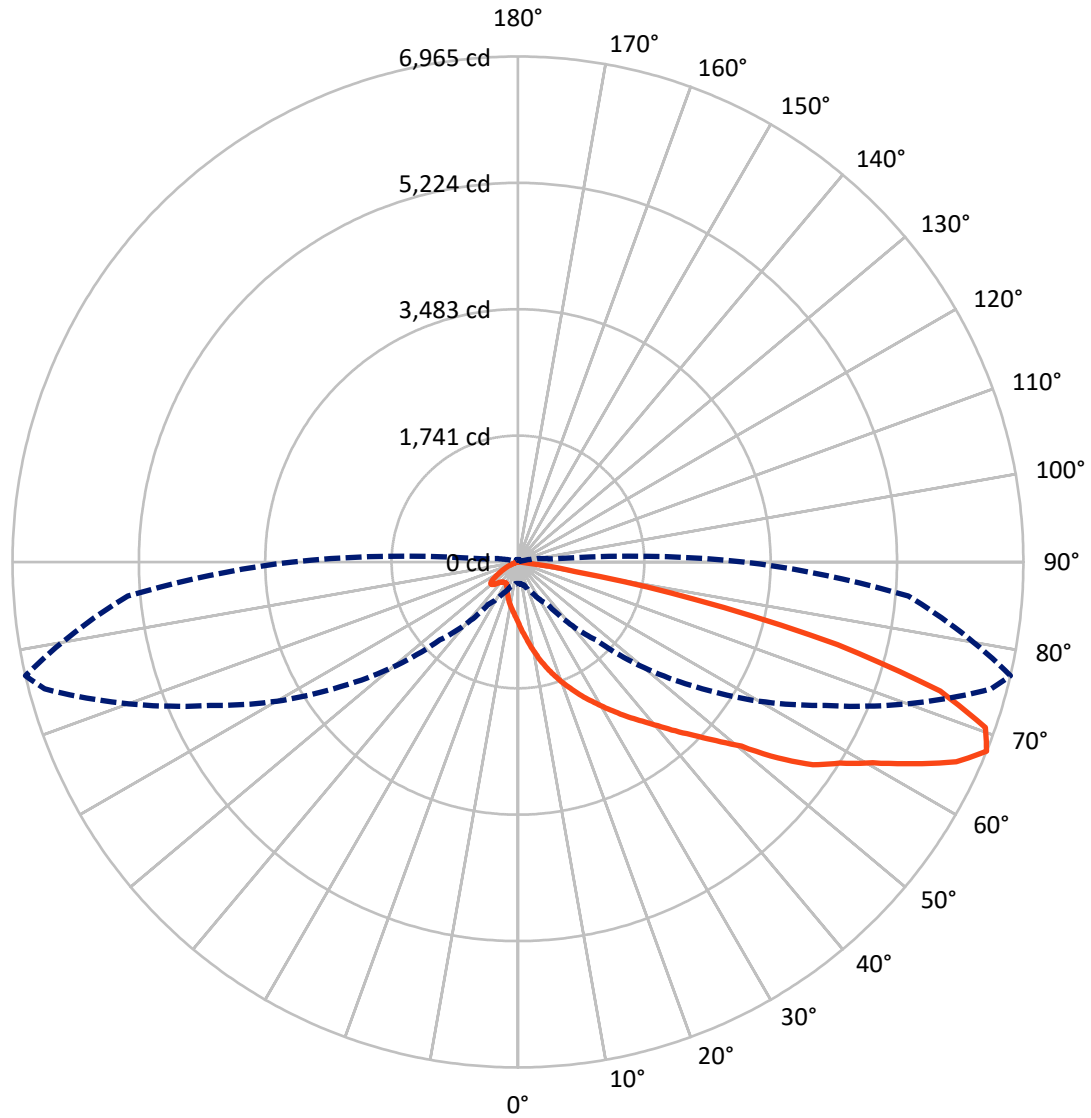
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	534.5	0.0	534.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	6730.5	0.0	6730.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	7265.0	0.0	7265.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	1.2
10°-20°	299.4	4.1
20°-30°	577.8	8.0
30°-40°	1003.1	13.8
40°-50°	1456.5	20.0
50°-60°	1672.6	23.0
60°-70°	1452.1	20.0
70°-80°	684.0	9.4
80°-90°	33.8	0.5
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°	7265.0	100.0
0°-180°	7265.0	100.0

**Coefficient of Utilization**



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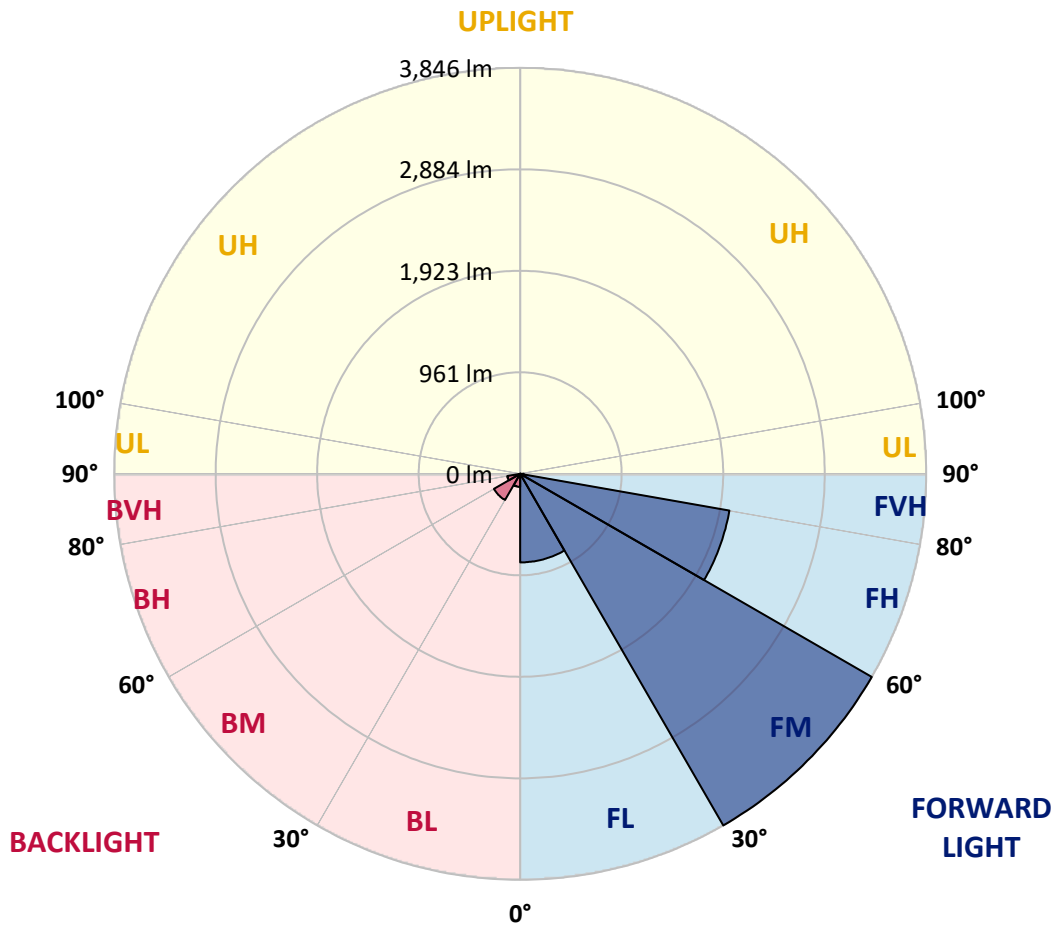
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	839.0	11.5			
FM (30°-60°)	3845.9	52.9			
FH (60°-80°)	2012.4	27.7			G2/5000
FVH (80°-90°)	33.2	0.5			G1/100
BL (0°-30°)	123.7	1.7	B1/500		
BM (30°-60°)	286.4	3.9	B1/1000		
BH (60°-80°)	123.7	1.7	B1/500		G1/500
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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
2.5°	1159.9	1167.1	1156.7	1136.9	1107.1	1087.7	1040.3	995.7	946.0	930.2
5°	1413.9	1420.2	1408.4	1386.8	1347.1	1309.2	1246.9	1153.6	1056.6	1025.4
7.5°	1602.0	1605.6	1601.1	1581.2	1543.3	1500.5	1431.0	1320.5	1176.6	1142.3
10°	1737.3	1749.1	1747.7	1740.0	1714.8	1680.0	1606.0	1480.2	1311.0	1266.8
12.5°	1827.1	1840.2	1847.9	1865.0	1863.6	1841.5	1776.6	1643.5	1445.0	1393.1
15°	1853.3	1867.3	1896.6	1936.3	1971.5	1982.7	1937.2	1803.6	1592.5	1526.2
17.5°	1838.4	1860.0	1895.2	1957.9	2035.1	2086.1	2081.1	1958.4	1726.5	1650.7
20°	1871.3	1892.1	1919.6	1972.4	2062.1	2154.6	2191.6	2106.4	1859.6	1780.2
22.5°	2053.6	2050.0	2052.7	2061.2	2114.9	2206.5	2282.8	2240.8	1991.3	1910.1
25°	2342.3	2326.1	2298.5	2252.1	2238.5	2282.8	2362.2	2359.9	2130.3	2043.2
27.5°	2673.4	2670.7	2606.2	2494.3	2431.2	2414.0	2451.9	2475.8	2267.9	2174.9
30°	2990.6	2997.8	2910.7	2786.2	2670.3	2603.1	2568.8	2585.9	2407.7	2317.0
32.5°	3266.7	3274.4	3179.6	3033.9	2890.4	2809.2	2737.0	2694.6	2560.2	2461.4
35°	3499.9	3507.6	3398.9	3237.8	3084.9	3011.3	2929.7	2813.7	2713.6	2621.6
37.5°	3708.3	3706.1	3560.4	3398.0	3247.7	3189.5	3146.7	2960.4	2871.5	2782.6
40°	3831.5	3841.0	3716.5	3537.4	3391.6	3349.2	3346.5	3142.2	3053.7	2967.6
42.5°	3867.6	3884.3	3794.1	3647.0	3514.8	3468.8	3539.6	3338.9	3265.8	3181.9
45°	3802.6	3818.9	3777.8	3675.9	3598.7	3568.9	3705.6	3542.8	3492.3	3409.2
47.5°	3613.2	3633.5	3643.4	3621.7	3620.8	3651.1	3854.5	3757.5	3761.1	3676.3
50°	3246.4	3280.7	3371.8	3448.5	3567.1	3716.0	3999.3	3990.3	4064.3	3991.2
52.5°	2579.6	2628.3	2942.3	3152.1	3418.7	3703.8	4158.6	4363.8	4596.2	4489.3
55°	2073.0	2073.0	2328.3	2720.8	3129.1	3623.5	4228.1	4606.6	4958.4	4933.2
57.5°	1690.0	1710.3	1873.1	2220.0	2710.0	3432.2	4270.9	4759.0	5250.3	5231.8
60°	1043.0	1086.8	1394.5	1736.9	2233.1	3091.6	4243.8	4913.3	5604.5	5619.4
62.5°	587.4	603.6	740.8	1249.6	1736.4	2633.7	4036.8	4999.5	6057.4	6120.6
65°	405.6	413.7	466.5	777.8	1203.6	2096.9	3632.1	4945.8	6511.3	6638.9
67.5°	294.6	298.7	331.6	475.0	714.1	1520.3	2997.8	4675.1	6751.7	6965.1
70°	226.5	229.2	253.1	312.2	421.8	938.4	2177.2	4136.9	6577.6	6832.5
72.5°	184.1	186.8	205.3	231.0	279.7	554.9	1319.6	3359.6	5808.8	6084.0
75°	155.2	158.8	175.5	192.2	219.3	356.4	619.0	2339.6	4368.4	4548.8
77.5°	86.2	79.4	142.6	159.3	185.0	225.6	289.6	1376.9	2446.5	2496.6
80°	53.7	55.5	113.2	128.1	142.1	113.7	132.6	530.1	848.1	805.7
82.5°	3.2	7.2	87.1	92.5	97.4	48.7	50.1	180.0	204.4	187.7
85°	0.0	0.0	39.7	32.0	33.8	14.0	14.4	42.0	27.5	29.8
87.5°	0.0	0.0	0.0	0.9	0.0	1.4	2.7	3.6	1.4	1.8
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°
837.8	0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
880.6	2.5°	849.0	817.5	753.4	690.7	639.7	592.3	558.5	526.5	510.2	509.3
937.5	5°	874.8	808.4	680.3	567.1	475.9	402.9	355.5	321.7	304.5	298.7
1007.4	7.5°	910.8	811.1	616.3	458.8	351.4	288.7	261.7	250.8	247.2	243.2
1086.3	10°	956.4	817.5	559.0	369.5	277.0	245.4	234.6	230.1	227.4	224.7
1175.2	12.5°	1007.4	823.3	502.1	306.8	243.6	227.4	219.7	214.3	210.7	207.5
1266.3	15°	1057.0	826.9	443.0	263.0	226.5	213.4	205.3	199.4	194.4	190.8
1355.7	17.5°	1106.2	831.9	387.5	236.8	212.5	199.4	191.3	184.1	180.0	175.9
1449.5	20°	1160.8	831.0	335.2	218.4	198.5	185.4	176.8	170.1	166.0	161.5
1548.8	22.5°	1211.3	826.5	289.2	202.6	184.1	171.4	162.0	155.2	151.1	147.5
1650.3	25°	1269.5	822.9	250.8	188.1	170.5	157.9	147.5	141.2	136.7	133.5
1752.2	27.5°	1325.4	817.5	222.9	175.0	157.4	145.3	135.3	128.1	124.1	121.8
1857.3	30°	1380.5	816.1	212.5	162.4	145.7	133.5	123.6	116.8	113.7	112.8
1972.8	32.5°	1446.8	819.7	217.0	157.9	134.9	122.7	113.2	108.3	105.1	105.1
2101.4	35°	1517.6	818.8	223.8	162.0	127.7	111.9	104.7	101.5	98.3	98.3
2244.0	37.5°	1606.5	820.2	229.2	168.7	125.0	102.9	98.8	94.7	92.9	92.9
2400.0	40°	1739.1	864.8	226.5	174.6	124.1	96.5	88.4	87.1	85.7	85.7
2576.4	42.5°	1901.5	961.8	230.1	175.0	123.6	92.0	81.2	83.9	80.8	80.3
2775.4	45°	2079.3	1067.8	253.1	165.6	123.2	89.8	77.6	80.8	75.8	75.8
3005.9	47.5°	2255.7	1173.0	276.5	152.0	121.8	89.3	74.4	72.6	71.3	71.7
3306.4	50°	2498.8	1258.7	285.6	133.5	118.6	88.4	68.6	69.0	68.1	69.0
3730.0	52.5°	2763.7	1276.7	274.7	112.8	109.6	85.7	64.5	66.3	65.9	66.8
4028.2	55°	2928.8	1257.3	226.9	93.8	95.6	74.9	60.5	64.1	64.1	64.1
4319.6	57.5°	3099.3	1174.8	161.1	76.2	79.4	61.4	56.8	61.8	61.4	60.9
4670.6	60°	3222.0	1041.2	106.0	62.7	63.2	50.5	52.8	58.2	57.7	55.5
5032.4	62.5°	3313.6	893.7	68.1	53.2	48.3	45.6	48.3	52.8	51.0	46.0
5339.2	65°	3303.2	689.3	52.3	45.6	39.7	39.7	42.0	46.0	40.6	32.5
5397.9	67.5°	3110.6	466.5	43.3	38.3	33.4	32.9	34.7	38.3	34.7	27.5
5097.4	70°	2766.4	305.0	34.7	29.8	26.6	24.4	28.0	32.9	29.3	22.1
4339.5	72.5°	2245.3	185.9	26.2	21.7	19.4	15.8	22.1	27.1	23.5	16.2
3017.7	75°	1452.7	94.7	18.0	14.0	10.4	9.5	16.2	20.3	16.2	9.9
1339.0	77.5°	555.8	39.7	9.9	6.3	5.4	4.5	9.0	12.2	6.8	2.3
259.4	80°	106.9	16.7	5.0	3.2	2.7	1.8	1.4	0.9	0.0	0.0
46.0	82.5°	18.5	5.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
9.0	85°	6.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.2	87.5°	2.3	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>
837.8
508.4
297.8
242.3
223.8
206.6
190.4
175.5
161.1
147.1
133.1
121.8
112.3
105.1
98.3
92.9
85.7
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66.8
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