

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: P946443

Luminaire Tested: **GALN-SB2A-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

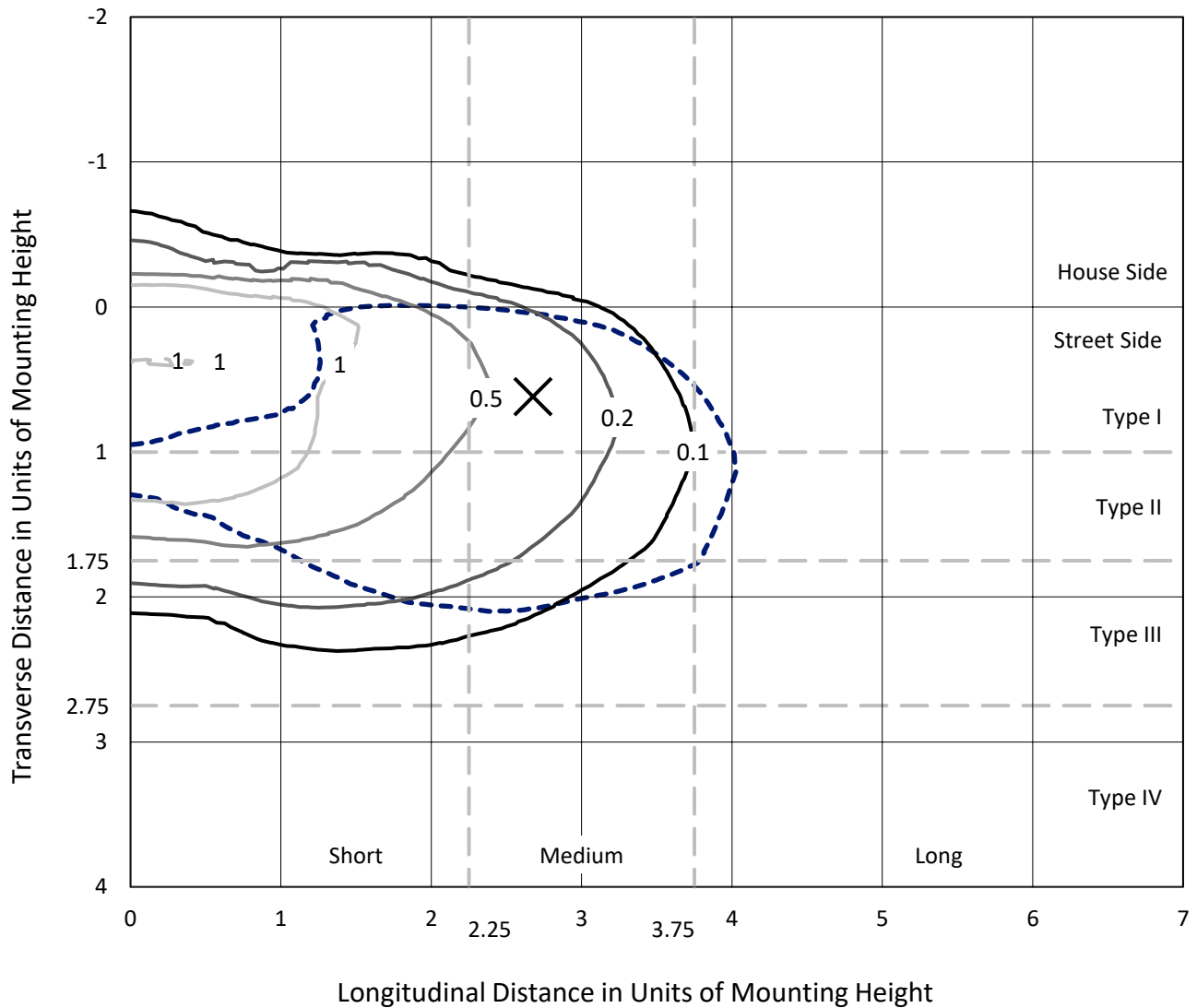
Lumens per Lamp: N/A  
Luminaire Lumens: 6711 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

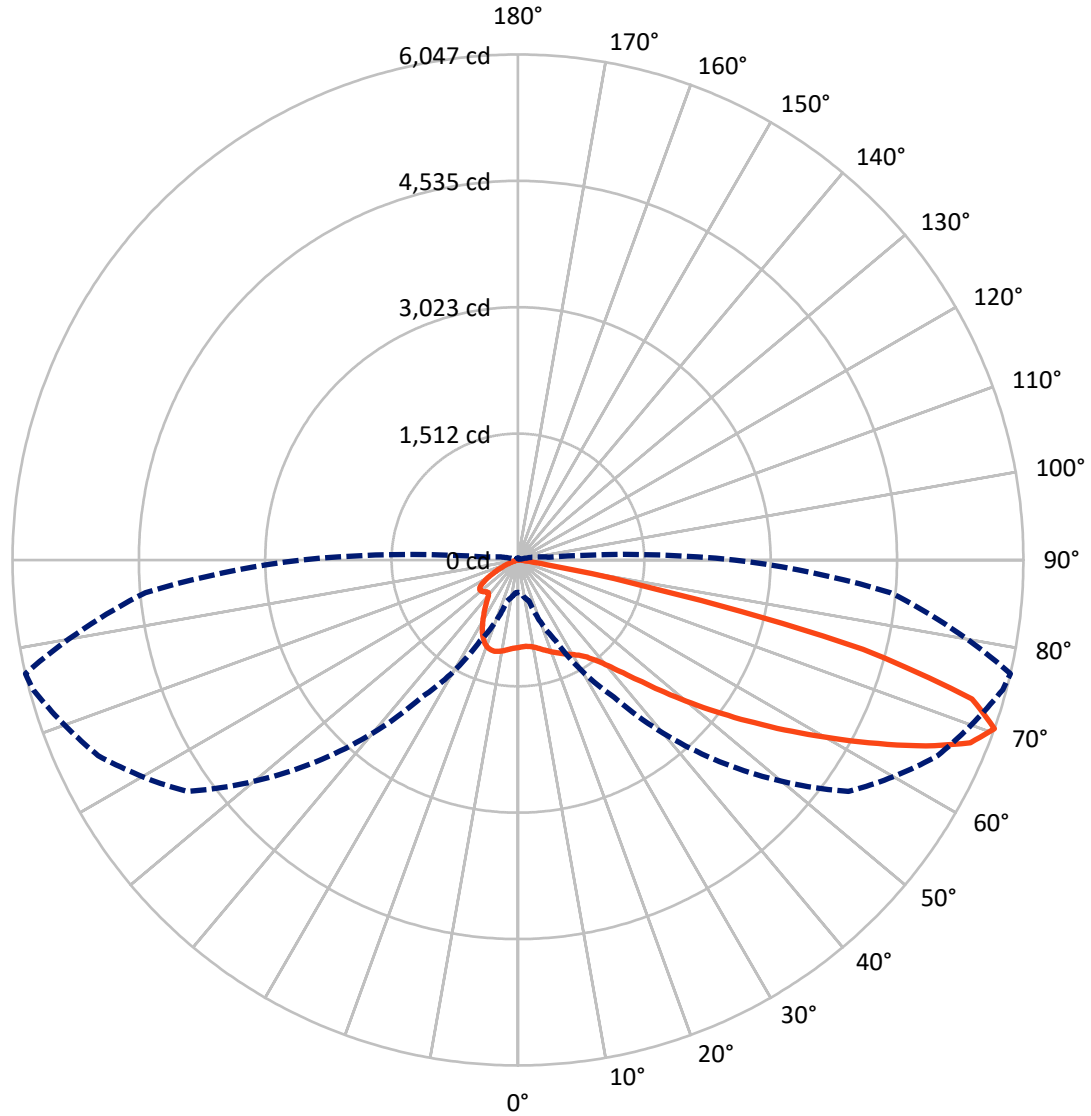
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	707.4	0.0	707.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6003.6	0.0	6003.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6711.0	0.0	6711.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	1.3
10°-20°	214.2	3.2
20°-30°	331.3	4.9
30°-40°	601.1	9.0
40°-50°	1134.6	16.9
50°-60°	1639.4	24.4
60°-70°	1745.1	26.0
70°-80°	924.8	13.8
80°-90°	30.4	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°	6711.0	100.0
0°-180°	6711.0	100.0

**Coefficient of Utilization**



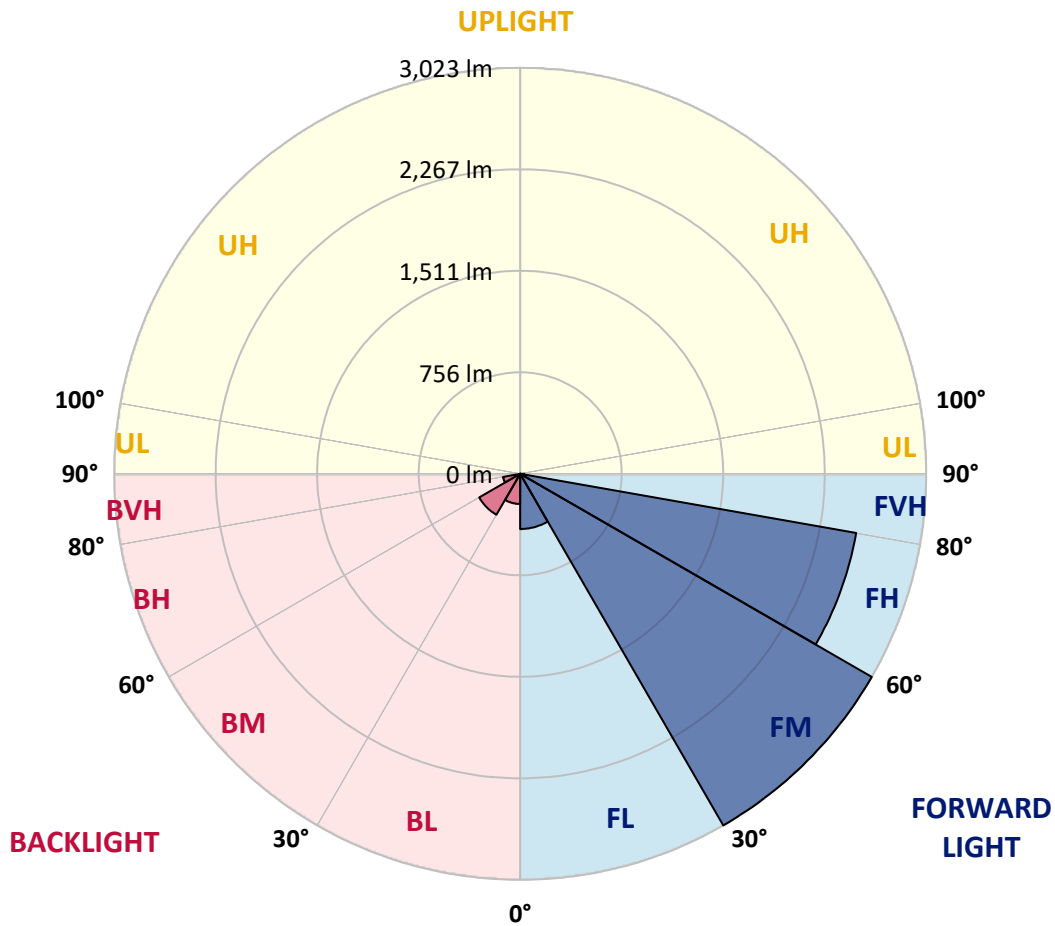
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.9	6.1			
FM (30°-60°)	3022.9	45.0			
FH (60°-80°)	2540.2	37.9			G2/5000
FVH (80°-90°)	29.5	0.4			G1/100
BL (0°-30°)	224.8	3.3	B1/500		
BM (30°-60°)	352.2	5.2	B1/1000		
BH (60°-80°)	129.7	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8
2.5°	982.8	991.7	990.4	996.4	998.5	1007.0	1015.4	1026.9	1039.6	1039.2
5°	927.3	936.2	938.3	946.4	956.5	969.7	987.0	1009.9	1033.7	1037.5
7.5°	861.6	870.9	876.4	892.5	911.2	938.3	966.7	1000.2	1039.6	1045.1
10°	795.9	804.4	811.6	834.5	864.1	904.4	950.6	998.9	1051.9	1059.9
12.5°	755.2	763.3	771.3	791.2	828.1	877.3	940.0	1004.8	1072.2	1083.7
15°	740.8	748.0	754.4	772.2	806.5	862.4	937.9	1017.1	1098.1	1113.3
17.5°	742.9	746.7	751.0	764.5	798.0	855.7	941.7	1038.3	1128.6	1142.2
20°	755.2	757.3	757.8	767.1	796.8	854.8	949.3	1058.7	1157.4	1175.6
22.5°	770.9	771.7	770.9	777.3	804.8	861.2	959.5	1083.2	1189.6	1206.6
25°	844.2	828.1	807.8	795.5	818.4	873.5	974.7	1116.3	1224.8	1241.3
27.5°	1071.8	1025.6	952.7	870.9	846.3	891.3	995.9	1149.8	1260.4	1275.2
30°	1441.4	1380.8	1257.0	1072.6	936.2	928.6	1023.5	1183.3	1298.1	1314.2
32.5°	1811.8	1796.9	1654.1	1399.0	1138.3	1011.6	1069.3	1228.6	1348.1	1360.8
35°	2186.4	2156.3	2039.3	1787.2	1449.8	1180.7	1145.5	1287.9	1413.8	1428.2
37.5°	2473.3	2455.1	2382.6	2175.0	1819.4	1441.8	1276.1	1379.9	1509.2	1525.3
40°	2726.8	2718.3	2693.7	2556.8	2232.6	1783.4	1479.1	1522.3	1641.4	1660.5
42.5°	2925.9	2945.9	2959.8	2921.7	2658.5	2173.3	1752.0	1722.3	1825.7	1845.2
45°	3129.8	3136.6	3192.9	3248.0	3081.5	2581.0	2059.7	1956.7	2055.0	2079.2
47.5°	3260.7	3287.9	3387.0	3484.1	3437.0	2985.3	2390.3	2233.4	2320.7	2366.1
50°	3270.5	3321.8	3458.2	3627.3	3696.0	3370.1	2749.6	2548.8	2641.6	2691.6
52.5°	3108.2	3187.9	3399.3	3646.8	3835.8	3696.0	3121.3	2864.1	2983.2	3048.4
55°	2383.0	2487.3	3177.7	3540.9	3841.4	3943.1	3483.2	3192.5	3363.7	3437.5
57.5°	2076.2	2128.8	2498.3	3356.9	3739.2	4042.7	3810.4	3505.3	3777.8	3869.3
60°	1727.4	1796.5	2095.3	3056.0	3600.6	4052.4	4099.5	3908.7	4226.6	4329.6
62.5°	1173.9	1248.9	1546.0	2539.0	3411.2	4047.7	4336.4	4324.1	4725.4	4836.0
65°	727.2	774.3	970.1	2073.2	3146.3	4052.8	4584.3	4828.4	5251.8	5364.1
67.5°	574.7	596.3	698.4	1591.8	2689.9	3938.4	4831.8	5302.6	5747.2	5836.2
70°	386.1	399.2	508.1	1067.1	2001.2	3410.3	4827.1	5540.8	6002.3	6046.8
72.5°	203.4	213.6	297.1	494.2	1208.7	2424.2	4068.9	5256.0	5748.5	5681.5
75°	101.7	118.7	200.0	250.9	516.2	1351.9	2526.7	4144.0	4524.5	4265.2
77.5°	77.1	93.2	165.3	165.3	179.7	455.2	1070.1	2260.1	2084.7	1735.9
80°	49.2	63.6	144.5	125.0	75.0	115.7	278.9	633.2	442.9	336.9
82.5°	28.8	41.5	120.4	82.6	42.0	42.8	78.8	134.8	114.9	89.4
85°	11.4	27.1	82.6	32.6	16.5	10.6	23.7	28.8	23.7	17.8
87.5°	0.0	6.4	14.4	0.0	1.3	0.8	1.7	2.1	2.1	1.7
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°
1046.8	0°	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8	1046.8
1047.6	2.5°	1051.5	1052.3	1054.8	1055.3	1049.3	1041.7	1038.7	1037.5	1032.4	1032.0
1054.4	5°	1064.2	1068.0	1064.2	1053.2	1026.9	990.0	962.0	939.1	918.4	912.0
1077.7	7.5°	1089.6	1093.4	1082.0	1038.7	972.6	899.3	833.2	786.6	744.6	728.9
1106.1	10°	1126.0	1131.1	1095.1	1007.8	890.8	773.0	661.1	582.3	520.9	495.9
1144.7	12.5°	1171.8	1173.9	1102.3	960.8	784.5	616.2	457.7	373.4	318.7	298.4
1191.3	15°	1222.2	1219.3	1103.2	896.8	639.5	435.7	298.8	245.4	223.3	216.6
1237.9	17.5°	1275.2	1262.9	1086.2	804.4	480.6	297.9	221.6	208.9	205.1	203.4
1284.1	20°	1327.4	1299.8	1055.3	683.6	345.0	222.5	201.3	197.5	195.4	194.5
1330.7	22.5°	1374.8	1327.8	1002.3	543.3	250.5	196.6	190.3	186.9	183.1	181.4
1376.1	25°	1421.0	1343.9	927.7	412.4	200.5	183.9	178.8	172.5	167.4	165.3
1424.8	27.5°	1465.9	1354.1	834.5	305.1	178.8	172.1	162.7	153.8	150.0	149.2
1477.0	30°	1513.8	1357.4	728.5	227.6	165.7	157.2	143.7	133.5	131.4	131.8
1547.3	32.5°	1572.3	1362.5	621.7	186.5	154.7	139.4	123.3	112.7	111.0	112.7
1649.9	35°	1642.2	1372.7	518.7	171.6	144.9	121.2	103.8	94.9	93.2	94.5
1781.2	37.5°	1737.2	1389.2	422.5	168.7	136.9	106.0	87.3	80.1	80.1	80.5
1942.3	40°	1863.5	1433.3	336.5	166.6	132.7	94.5	73.7	70.8	72.0	72.9
2147.4	42.5°	2017.3	1527.0	278.4	164.0	128.0	89.4	67.0	65.7	67.8	68.7
2393.2	45°	2189.8	1645.6	258.1	159.8	123.8	92.8	64.0	62.3	64.8	65.3
2668.7	47.5°	2368.2	1761.8	255.6	155.1	119.5	97.9	63.1	59.3	62.3	62.7
2962.8	50°	2548.8	1837.6	258.1	147.9	112.7	97.9	63.6	56.4	58.9	60.2
3267.9	52.5°	2730.6	1872.4	256.4	132.2	100.9	92.0	63.6	53.8	56.4	57.2
3597.7	55°	2906.9	1865.6	230.5	108.9	85.6	81.4	61.9	51.7	53.4	53.8
3909.2	57.5°	3046.3	1771.1	182.7	84.8	69.5	67.8	56.4	49.2	50.4	50.0
4194.8	60°	3119.2	1563.4	130.5	65.3	54.7	53.4	49.6	45.8	46.6	44.5
4436.8	62.5°	3120.0	1288.8	87.3	51.7	43.7	42.4	42.4	41.1	40.3	36.0
4624.1	65°	3053.5	984.1	58.1	41.1	35.2	33.1	35.6	35.2	32.2	26.3
4681.3	67.5°	2902.6	645.0	44.1	32.2	27.1	25.9	28.4	29.7	27.5	22.0
4472.8	70°	2592.4	375.5	36.4	25.0	20.3	19.1	22.9	25.4	22.9	17.8
3823.1	72.5°	2153.3	202.6	29.7	18.6	14.0	12.7	18.2	20.8	18.2	13.1
2453.0	75°	1397.3	108.5	22.9	12.3	7.2	8.1	13.6	15.3	12.7	8.5
720.0	77.5°	469.2	47.9	14.4	5.9	3.4	3.4	8.1	9.3	5.9	3.0
131.0	80°	104.7	19.9	5.9	2.5	1.3	1.3	1.7	1.7	0.8	0.0
40.3	82.5°	34.3	8.1	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
10.2	85°	13.1	3.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	5.1	0.4	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>
1046.8
1032.8
908.2
722.6
485.3
292.0
216.6
203.0
193.7
181.0
164.4
148.3
131.8
112.3
94.1
80.1
72.9
68.7
65.7
63.1
60.6
57.2
53.8
50.0
44.1
34.8
25.4
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