

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: P946506

Luminaire Tested: **GALN-SB2A-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946506
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-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 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: 7144 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

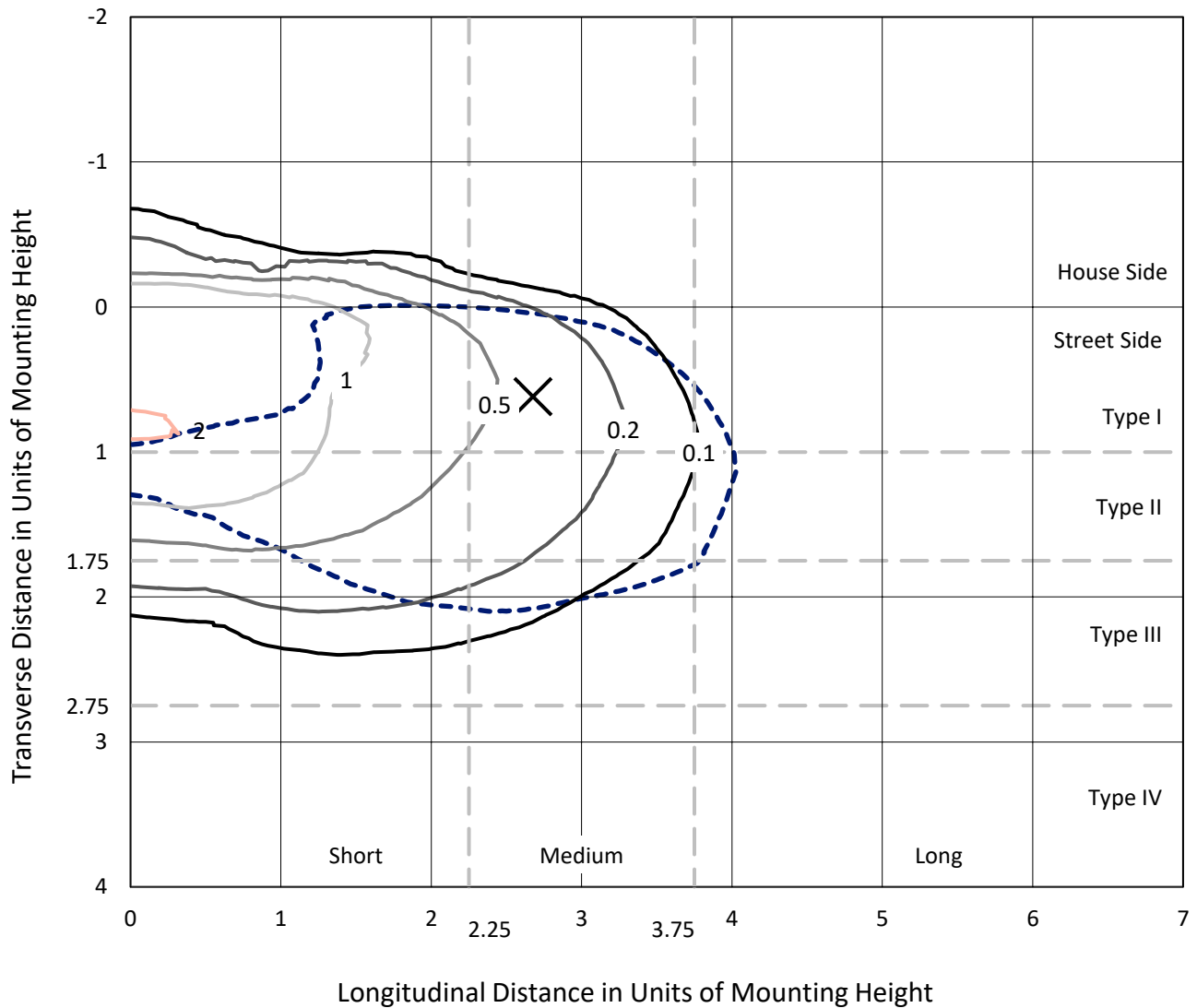
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

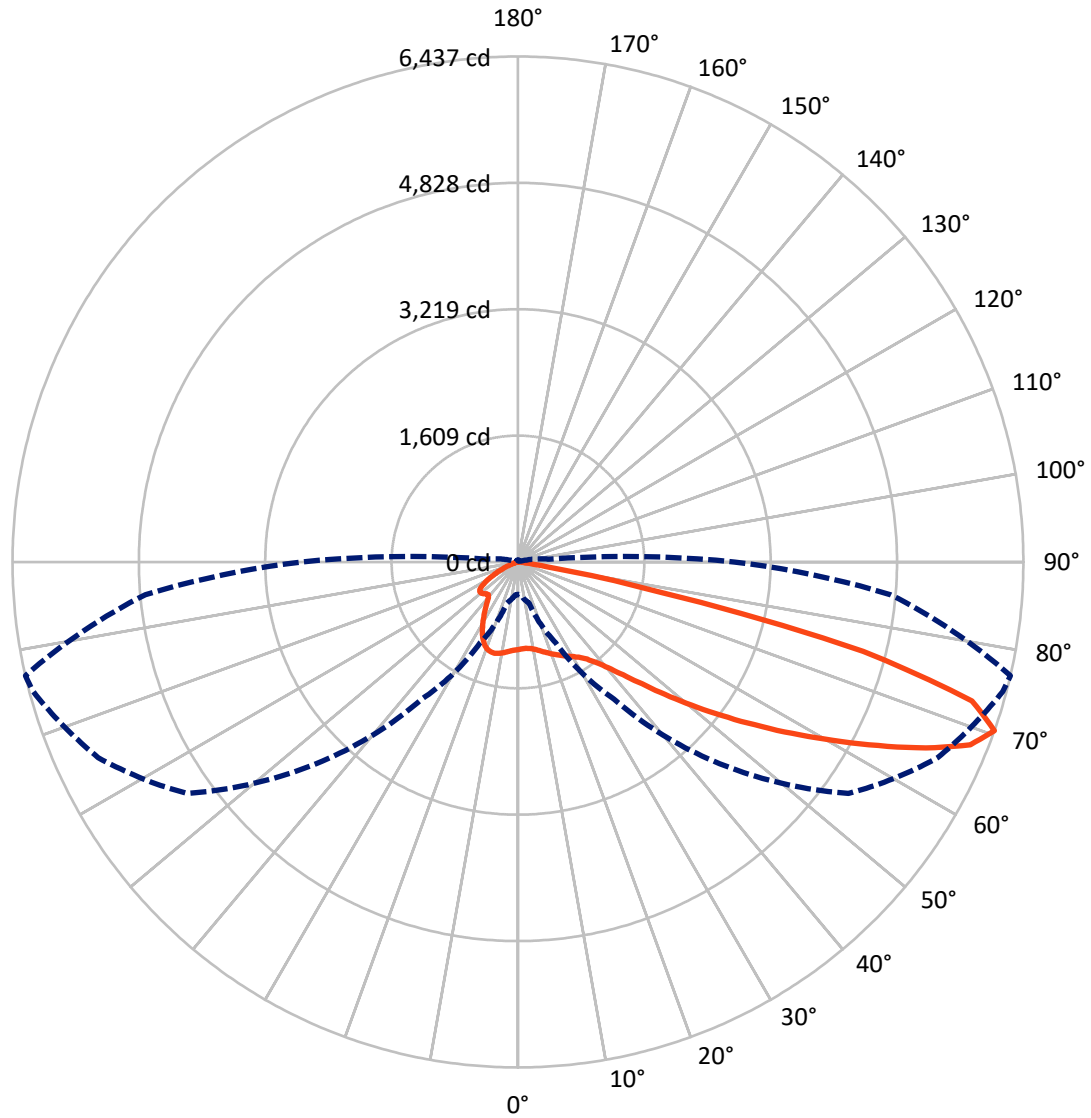
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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
House Side	Lumens	753.1	0.0	753.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6390.9	0.0	6390.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	7144.0	0.0	7144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.3
10°-20°	228.0	3.2
20°-30°	352.6	4.9
30°-40°	639.9	9.0
40°-50°	1207.8	16.9
50°-60°	1745.2	24.4
60°-70°	1857.7	26.0
70°-80°	984.5	13.8
80°-90°	32.3	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°	7144.0	100.0
0°-180°	7144.0	100.0

Coefficient of Utilization



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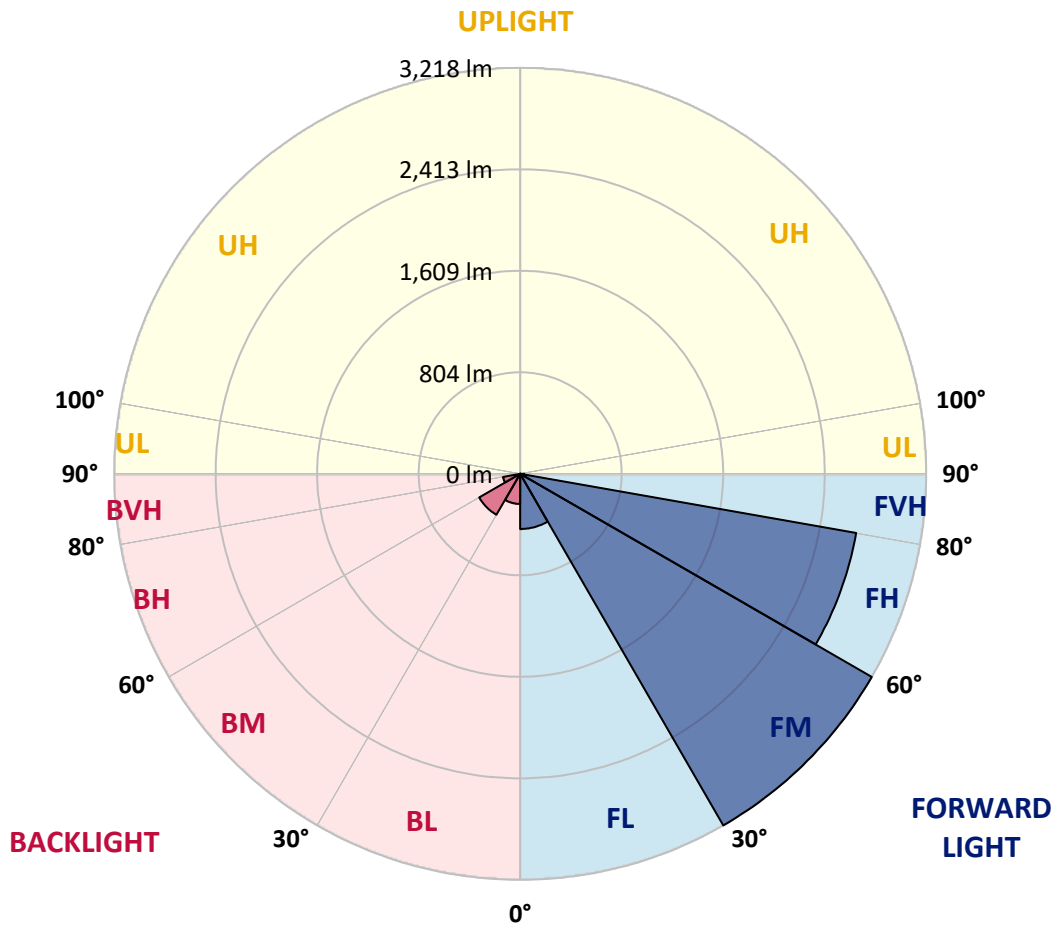
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.4	6.1			
FM (30°-60°)	3218.0	45.0			
FH (60°-80°)	2704.1	37.9			G2/5000
FVH (80°-90°)	31.5	0.4			G1/100
BL (0°-30°)	239.3	3.3	B1/500		
BM (30°-60°)	374.9	5.2	B1/1000		
BH (60°-80°)	138.1	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1046.2	1055.7	1054.3	1060.6	1062.9	1071.9	1081.0	1093.1	1106.7	1106.2
5°	987.1	996.6	998.8	1007.4	1018.2	1032.2	1050.7	1075.1	1100.3	1104.4
7.5°	917.2	927.1	933.0	950.1	970.0	998.8	1029.1	1064.7	1106.7	1112.5
10°	847.3	856.3	863.9	888.3	919.9	962.7	1011.9	1063.4	1119.7	1128.3
12.5°	803.9	812.5	821.1	842.3	881.5	933.9	1000.6	1069.7	1141.4	1153.6
15°	788.6	796.3	803.0	822.0	858.5	918.1	998.4	1082.8	1168.9	1185.2
17.5°	790.9	794.9	799.4	813.9	849.5	910.9	1002.5	1105.3	1201.4	1215.8
20°	803.9	806.2	806.7	816.6	848.2	910.0	1010.6	1127.0	1232.1	1251.5
22.5°	820.6	821.5	820.6	827.4	856.7	916.7	1021.4	1153.1	1266.4	1284.4
25°	898.7	881.5	859.9	846.8	871.2	929.8	1037.6	1188.3	1303.8	1321.4
27.5°	1141.0	1091.8	1014.2	927.1	900.9	948.8	1060.2	1224.0	1341.7	1357.5
30°	1534.4	1469.8	1338.1	1141.9	996.6	988.5	1089.5	1259.6	1381.9	1399.0
32.5°	1928.7	1912.9	1760.8	1489.2	1211.8	1076.9	1138.2	1307.9	1435.1	1448.6
35°	2327.5	2295.4	2170.9	1902.5	1543.4	1256.9	1219.5	1371.0	1505.0	1520.4
37.5°	2632.9	2613.5	2536.4	2315.3	1936.8	1534.8	1358.4	1468.9	1606.5	1623.7
40°	2902.7	2893.7	2867.5	2721.8	2376.6	1898.4	1574.5	1620.5	1747.3	1767.6
42.5°	3114.7	3135.9	3150.8	3110.2	2830.0	2313.5	1865.0	1833.5	1943.5	1964.3
45°	3331.7	3338.9	3398.9	3457.6	3280.3	2747.5	2192.6	2082.9	2187.6	2213.3
47.5°	3471.1	3500.0	3605.6	3708.9	3658.8	3177.9	2544.5	2377.5	2470.5	2518.8
50°	3481.5	3536.1	3681.4	3861.4	3934.5	3587.5	2927.0	2713.2	2812.0	2865.2
52.5°	3308.7	3393.5	3618.7	3882.1	4083.3	3934.5	3322.7	3048.9	3175.6	3245.1
55°	2536.8	2647.8	3382.7	3769.3	4089.2	4197.5	3708.0	3398.5	3580.8	3659.3
57.5°	2210.2	2266.1	2659.5	3573.5	3980.5	4303.5	4056.3	3731.4	4021.5	4119.0
60°	1838.9	1912.4	2230.5	3253.2	3833.0	4313.9	4364.0	4160.9	4499.3	4608.9
62.5°	1249.7	1329.5	1645.8	2702.8	3631.3	4308.9	4616.1	4603.1	5030.3	5148.0
65°	774.2	824.2	1032.7	2207.0	3349.3	4314.3	4880.1	5139.9	5590.6	5710.2
67.5°	611.8	634.8	743.5	1694.5	2863.4	4192.5	5143.5	5644.8	6118.0	6212.8
70°	411.0	425.0	540.9	1136.0	2130.3	3630.4	5138.6	5898.3	6389.6	6437.0
72.5°	216.6	227.4	316.3	526.0	1286.7	2580.6	4331.5	5595.1	6119.4	6048.1
75°	108.3	126.3	212.9	267.1	549.5	1439.2	2689.7	4411.3	4816.5	4540.4
77.5°	82.1	99.3	175.9	175.9	191.3	484.5	1139.1	2406.0	2219.2	1847.9
80°	52.3	67.7	153.8	133.1	79.9	123.2	296.9	674.0	471.4	358.7
82.5°	30.7	44.2	128.1	88.0	44.7	45.6	83.9	143.5	122.3	95.2
85°	12.2	28.9	88.0	34.7	17.6	11.3	25.3	30.7	25.3	18.9
87.5°	0.0	6.8	15.3	0.0	1.4	0.9	1.8	2.3	2.3	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°
1114.3	0°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
1115.2	2.5°	1119.3	1120.2	1122.9	1123.4	1117.0	1108.9	1105.8	1104.4	1099.0	1098.5
1122.5	5°	1132.8	1136.9	1132.8	1121.1	1093.1	1053.9	1024.1	999.7	977.6	970.9
1147.3	7.5°	1159.9	1164.0	1151.8	1105.8	1035.4	957.3	887.0	837.3	792.7	776.0
1177.5	10°	1198.7	1204.1	1165.8	1072.8	948.3	822.9	703.8	619.9	554.5	527.8
1218.6	12.5°	1247.4	1249.7	1173.4	1022.8	835.1	656.0	487.2	397.5	339.3	317.6
1268.2	15°	1301.1	1298.0	1174.3	954.6	680.8	463.8	318.1	261.2	237.8	230.5
1317.8	17.5°	1357.5	1344.4	1156.3	856.3	511.6	317.2	236.0	222.4	218.4	216.6
1367.0	20°	1413.0	1383.7	1123.4	727.7	367.2	236.9	214.3	210.2	208.0	207.1
1416.6	22.5°	1463.5	1413.4	1067.0	578.4	266.6	209.3	202.6	199.0	194.9	193.1
1464.9	25°	1512.7	1430.6	987.6	439.0	213.4	195.8	190.4	183.6	178.2	175.9
1516.8	27.5°	1560.5	1441.4	888.3	324.8	190.4	183.2	173.2	163.8	159.7	158.8
1572.2	30°	1611.5	1445.0	775.5	242.3	176.4	167.4	152.9	142.1	139.9	140.3
1647.1	32.5°	1673.8	1450.4	661.8	198.5	164.7	148.4	131.3	120.0	118.2	120.0
1756.3	35°	1748.2	1461.3	552.2	182.7	154.3	129.0	110.5	101.1	99.3	100.6
1896.2	37.5°	1849.3	1478.9	449.8	179.6	145.7	112.8	92.9	85.3	85.3	85.7
2067.6	40°	1983.7	1525.8	358.2	177.3	141.2	100.6	78.5	75.3	76.7	77.6
2286.0	42.5°	2147.5	1625.5	296.4	174.6	136.2	95.2	71.3	69.9	72.2	73.1
2547.6	45°	2331.1	1751.8	274.7	170.1	131.7	98.8	68.1	66.3	69.0	69.5
2840.9	47.5°	2521.0	1875.4	272.0	165.1	127.2	104.2	67.2	63.2	66.3	66.8
3154.0	50°	2713.2	1956.2	274.7	157.5	120.0	104.2	67.7	60.0	62.7	64.1
3478.8	52.5°	2906.7	1993.2	272.9	140.8	107.4	97.9	67.7	57.3	60.0	60.9
3829.8	55°	3094.4	1986.0	245.4	115.9	91.1	86.6	65.9	55.0	56.8	57.3
4161.4	57.5°	3242.9	1885.3	194.4	90.2	74.0	72.2	60.0	52.3	53.7	53.2
4465.5	60°	3320.4	1664.3	139.0	69.5	58.2	56.8	52.8	48.7	49.6	47.4
4723.1	62.5°	3321.3	1371.9	92.9	55.0	46.5	45.1	45.1	43.8	42.9	38.3
4922.5	65°	3250.5	1047.6	61.8	43.8	37.4	35.2	37.9	37.4	34.3	28.0
4983.4	67.5°	3089.9	686.6	46.9	34.3	28.9	27.5	30.2	31.6	29.3	23.5
4761.4	70°	2759.7	399.7	38.8	26.6	21.7	20.3	24.4	27.1	24.4	18.9
4069.8	72.5°	2292.3	215.6	31.6	19.9	14.9	13.5	19.4	22.1	19.4	14.0
2611.2	75°	1487.4	115.5	24.4	13.1	7.7	8.6	14.4	16.2	13.5	9.0
766.5	77.5°	499.4	51.0	15.3	6.3	3.6	3.6	8.6	9.9	6.3	3.2
139.4	80°	111.4	21.2	6.3	2.7	1.4	1.4	1.8	1.8	0.9	0.0
42.9	82.5°	36.5	8.6	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
10.8	85°	14.0	3.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6	87.5°	5.4	0.5	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>
1114.3
1099.4
966.8
769.2
516.6
310.8
230.5
216.1
206.2
192.6
175.0
157.9
140.3
119.6
100.2
85.3
77.6
73.1
69.9
67.2
64.5
60.9
57.3
53.2
46.9
37.0
27.1
23.0
18.0
13.5
8.1
2.7
0.0
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