

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: P946945

Luminaire Tested: **GALN-SB2B-940-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-940-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

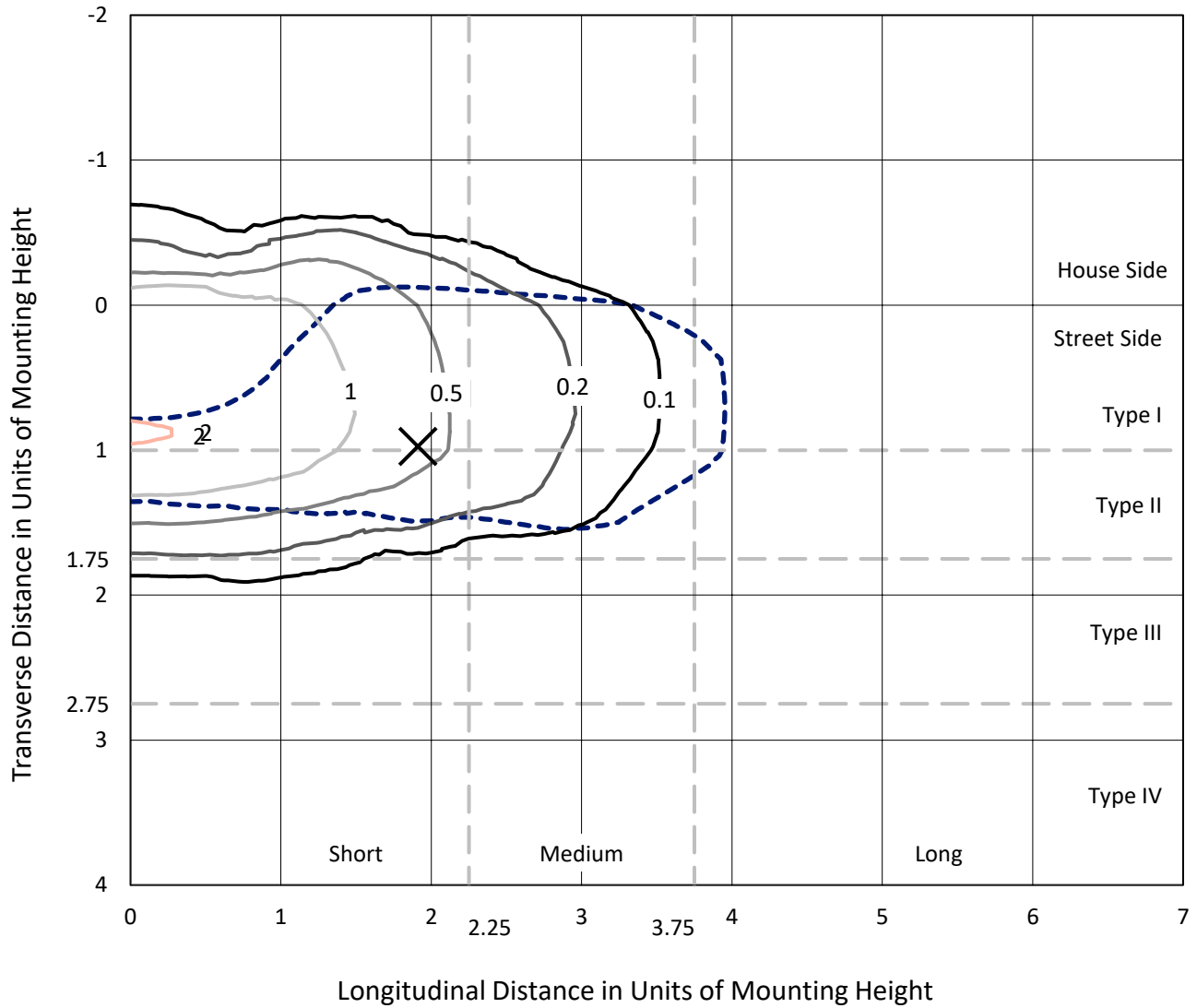
Lumens per Lamp: N/A  
Luminaire Lumens: 6236 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

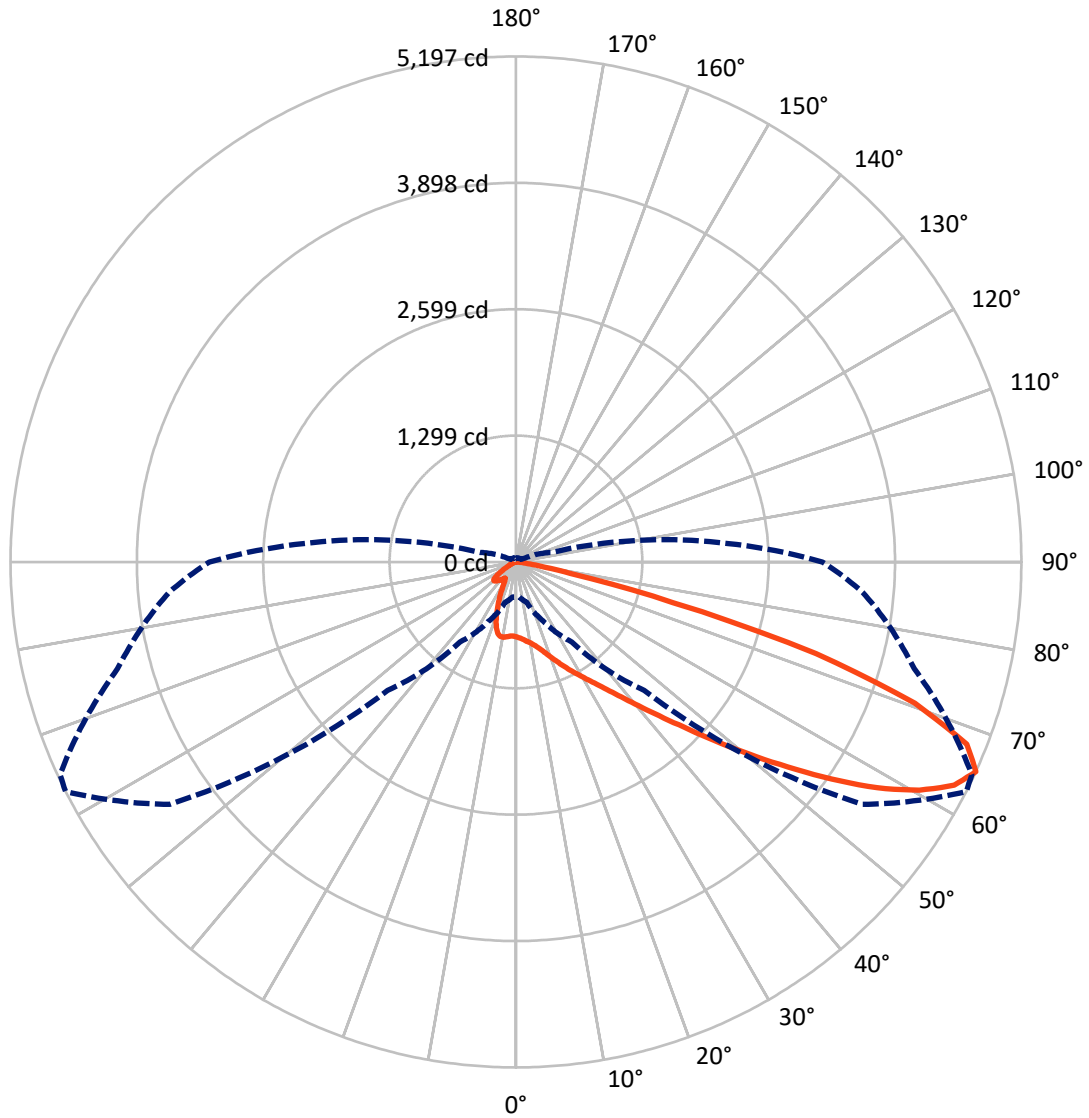
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	916.6	0.0	916.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	5319.4	0.0	5319.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	6236.0	0.0	6236.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.2
10°-20°	201.2	3.2
20°-30°	350.3	5.6
30°-40°	631.5	10.1
40°-50°	1252.4	20.1
50°-60°	1706.0	27.4
60°-70°	1361.7	21.8
70°-80°	616.2	9.9
80°-90°	44.3	0.7
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°	6236.0	100.0
0°-180°	6236.0	100.0

**Coefficient of Utilization**



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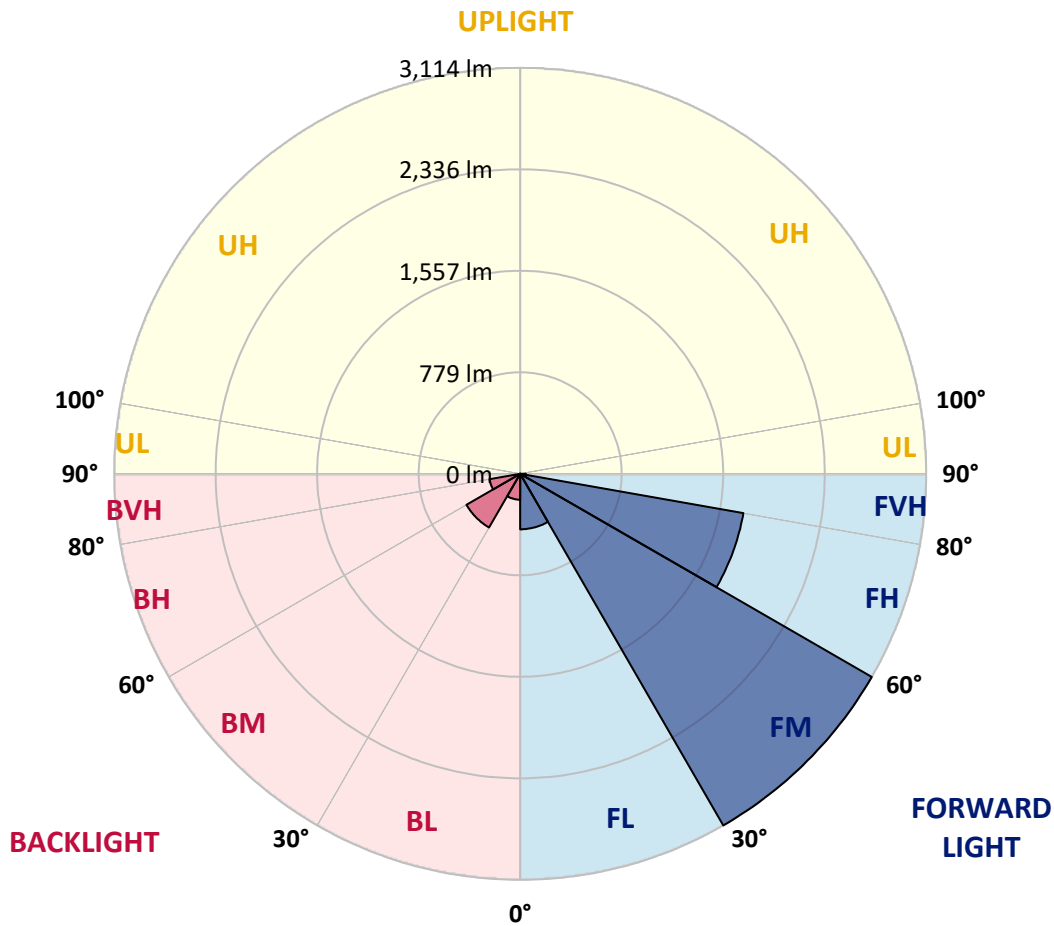
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.7	6.8			
FM (30°-60°)	3114.1	49.9			
FH (60°-80°)	1738.6	27.9			G1/1800
FVH (80°-90°)	41.0	0.7			G1/100
BL (0°-30°)	198.4	3.2	B1/500		
BM (30°-60°)	475.7	7.6	B1/1000		
BH (60°-80°)	239.3	3.8	B1/500		G1/500
BVH (80°-90°)	3.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6
2.5°	787.7	785.5	788.5	787.2	786.4	784.7	783.8	782.9	781.2	779.9
5°	789.8	788.5	791.5	794.1	796.7	799.2	800.5	802.2	800.5	797.1
7.5°	771.8	770.9	777.4	785.1	796.7	806.5	817.3	823.3	823.7	822.4
10°	770.5	768.4	774.8	784.2	799.2	816.8	835.7	848.6	850.3	855.9
12.5°	790.7	788.5	797.5	807.8	823.3	841.7	864.9	882.9	885.5	893.2
15°	824.6	821.6	831.8	845.1	864.9	885.9	910.4	926.7	928.8	938.2
17.5°	864.0	861.0	873.0	887.2	908.6	937.4	965.7	983.7	986.3	992.3
20°	914.6	910.8	920.2	933.1	955.8	990.2	1024.0	1049.8	1049.4	1049.4
22.5°	973.4	967.4	975.6	985.9	1007.3	1048.9	1094.0	1124.4	1124.4	1112.4
25°	1036.5	1030.5	1039.5	1048.9	1067.8	1115.0	1167.8	1205.5	1207.2	1186.6
27.5°	1115.4	1107.7	1114.6	1125.7	1136.9	1184.9	1247.6	1291.3	1292.2	1260.4
30°	1267.3	1245.4	1224.0	1211.9	1217.1	1264.7	1331.6	1380.1	1384.4	1340.6
32.5°	1545.3	1541.0	1465.5	1366.8	1315.3	1350.5	1425.6	1483.9	1486.5	1430.3
35°	1977.3	1972.1	1850.7	1662.8	1495.1	1465.5	1539.7	1608.8	1607.1	1543.6
37.5°	2493.0	2488.2	2328.2	2076.8	1805.3	1639.2	1686.9	1759.4	1770.1	1686.9
40°	2933.6	2916.0	2814.7	2572.3	2217.1	1927.5	1896.2	1944.3	1955.4	1856.7
42.5°	3267.3	3252.3	3200.8	3049.4	2715.6	2354.0	2142.9	2161.3	2173.8	2055.4
45°	3440.2	3436.8	3457.4	3443.2	3223.6	2877.4	2495.5	2418.7	2423.5	2275.5
47.5°	3464.7	3463.0	3556.9	3689.9	3660.3	3467.7	2948.1	2739.6	2722.9	2523.9
50°	3320.5	3317.1	3497.3	3746.5	3952.0	3963.6	3462.1	3101.3	3064.4	2780.8
52.5°	2860.2	2859.3	3155.4	3570.2	4054.6	4397.8	3970.0	3498.6	3436.8	3052.8
55°	2200.8	2216.7	2556.0	3046.4	3867.5	4606.7	4426.1	3939.6	3844.8	3326.5
57.5°	1559.0	1582.2	1917.7	2354.4	3287.5	4483.1	4734.5	4381.5	4279.4	3599.4
60°	837.4	858.0	1193.9	1715.2	2445.8	4022.4	4897.1	4765.0	4668.5	3858.5
62.5°	498.9	505.8	644.8	1107.3	1654.3	3073.0	4828.1	5057.1	4977.8	4076.0
65°	358.2	359.5	429.4	676.1	1004.3	1867.0	4343.7	5197.0	5172.5	4239.9
67.5°	301.6	300.7	329.9	449.2	684.3	935.2	3329.1	4999.2	5103.0	4343.7
70°	258.7	260.0	294.3	329.0	514.4	529.4	1655.1	4352.7	4574.1	4371.2
72.5°	192.6	196.9	228.7	299.9	388.3	364.2	571.4	3227.4	3627.7	4118.5
75°	136.0	138.1	160.9	252.3	289.6	265.1	291.7	1668.4	2181.5	3157.5
77.5°	104.7	108.5	121.8	176.3	285.3	186.2	178.5	577.4	887.2	1907.4
80°	56.6	63.5	87.9	127.4	200.3	131.7	88.4	229.9	300.7	891.9
82.5°	29.2	32.6	61.3	91.8	114.1	115.0	43.8	95.7	124.0	275.4
85°	11.6	14.2	41.2	50.6	58.8	56.6	19.7	38.6	44.6	76.4
87.5°	2.6	4.3	15.0	11.6	11.2	12.0	4.7	9.0	8.6	9.0
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°
769.6	0°	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6
774.8	2.5°	774.4	772.6	767.9	762.8	756.8	753.3	751.2	750.8	747.8	745.6
791.9	5°	787.2	785.5	776.5	765.8	754.2	745.2	736.6	728.9	717.7	715.6
816.8	7.5°	813.0	808.3	793.7	779.1	757.2	731.0	699.3	662.8	630.2	620.3
849.9	10°	844.7	838.3	819.8	794.1	745.6	674.4	597.6	526.4	469.8	453.9
888.9	12.5°	880.8	875.2	850.7	803.1	697.1	568.0	450.5	362.1	307.2	293.4
930.5	15°	923.7	915.5	881.6	789.4	610.5	431.6	309.3	257.0	237.2	234.7
978.1	17.5°	969.1	955.8	909.1	740.0	493.8	306.7	239.0	223.9	215.4	212.8
1026.2	20°	1010.7	993.6	925.4	665.4	368.9	239.0	214.1	204.2	196.5	193.5
1074.2	22.5°	1052.4	1027.9	925.4	563.7	276.7	211.9	196.5	187.5	178.5	174.6
1125.7	25°	1095.7	1063.1	909.1	450.5	222.7	194.3	179.8	169.9	162.2	157.4
1174.6	27.5°	1137.7	1092.7	871.7	343.2	198.2	178.9	164.3	154.9	147.6	144.1
1227.8	30°	1177.6	1121.9	819.4	260.4	182.3	163.9	150.2	142.0	134.7	131.3
1296.9	32.5°	1231.7	1158.8	763.6	213.6	168.6	149.7	137.3	129.6	123.1	120.6
1386.6	35°	1306.8	1213.2	715.6	209.8	157.0	138.1	125.7	118.4	112.0	109.8
1502.4	37.5°	1413.2	1301.2	690.3	235.5	147.6	127.8	116.3	108.5	102.5	100.8
1649.5	40°	1544.4	1420.4	704.0	261.3	141.1	118.8	107.7	100.0	94.8	92.7
1818.6	42.5°	1700.2	1567.6	779.9	281.0	136.9	111.1	99.5	90.9	87.5	86.7
2010.3	45°	1879.1	1729.3	896.2	302.0	130.0	103.8	91.4	84.9	82.4	81.9
2218.8	47.5°	2082.4	1906.9	1030.9	328.2	123.1	97.0	84.9	80.7	78.5	77.7
2436.3	50°	2284.0	2085.8	1169.5	342.8	117.5	90.5	79.8	76.4	74.6	74.2
2666.3	52.5°	2495.1	2269.9	1281.4	329.0	112.8	85.4	75.5	72.9	71.2	70.8
2878.2	55°	2696.3	2418.7	1300.8	279.3	103.4	80.2	70.8	69.5	67.4	67.4
3093.1	57.5°	2869.6	2493.4	1164.3	205.1	94.0	72.5	66.1	64.8	63.1	62.6
3287.1	60°	3028.8	2471.9	898.8	138.1	83.7	64.8	60.1	59.2	57.5	55.3
3455.7	62.5°	3118.5	2377.6	614.8	90.1	73.4	56.6	53.2	52.8	48.9	44.6
3580.5	65°	3152.4	2183.7	383.5	65.6	61.3	48.5	45.9	45.0	39.5	34.7
3651.3	67.5°	3122.7	1864.5	193.5	51.9	48.5	40.3	37.8	37.8	33.9	29.6
3647.0	70°	3004.3	1397.7	81.5	41.6	37.3	30.9	30.9	32.6	28.7	24.0
3457.8	72.5°	2747.4	940.4	43.3	31.7	27.9	21.9	25.3	26.6	22.7	18.0
2830.2	75°	2184.1	573.6	30.0	23.6	17.6	15.4	19.3	20.2	15.4	12.0
1940.4	77.5°	1493.8	329.5	20.2	15.0	11.2	9.0	13.3	12.4	8.2	5.6
748.2	80°	656.0	137.3	11.6	6.9	4.3	3.4	4.7	3.4	2.6	1.7
102.5	82.5°	76.8	32.2	4.3	2.6	1.7	0.9	0.4	0.0	0.0	0.0
31.3	85°	15.9	3.9	2.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0
5.6	87.5°	3.0	0.9	0.4	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>
769.6
747.8
714.7
615.6
447.9
289.6
232.1
211.5
191.8
172.5
155.7
144.1
131.7
120.6
109.8
100.4
92.2
86.7
81.5
77.7
74.2
70.8
66.9
62.2
54.9
43.8
34.3
29.2
23.6
18.0
11.6
6.0
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