

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: P938992

Luminaire Tested: **GALN-SB1B-850-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

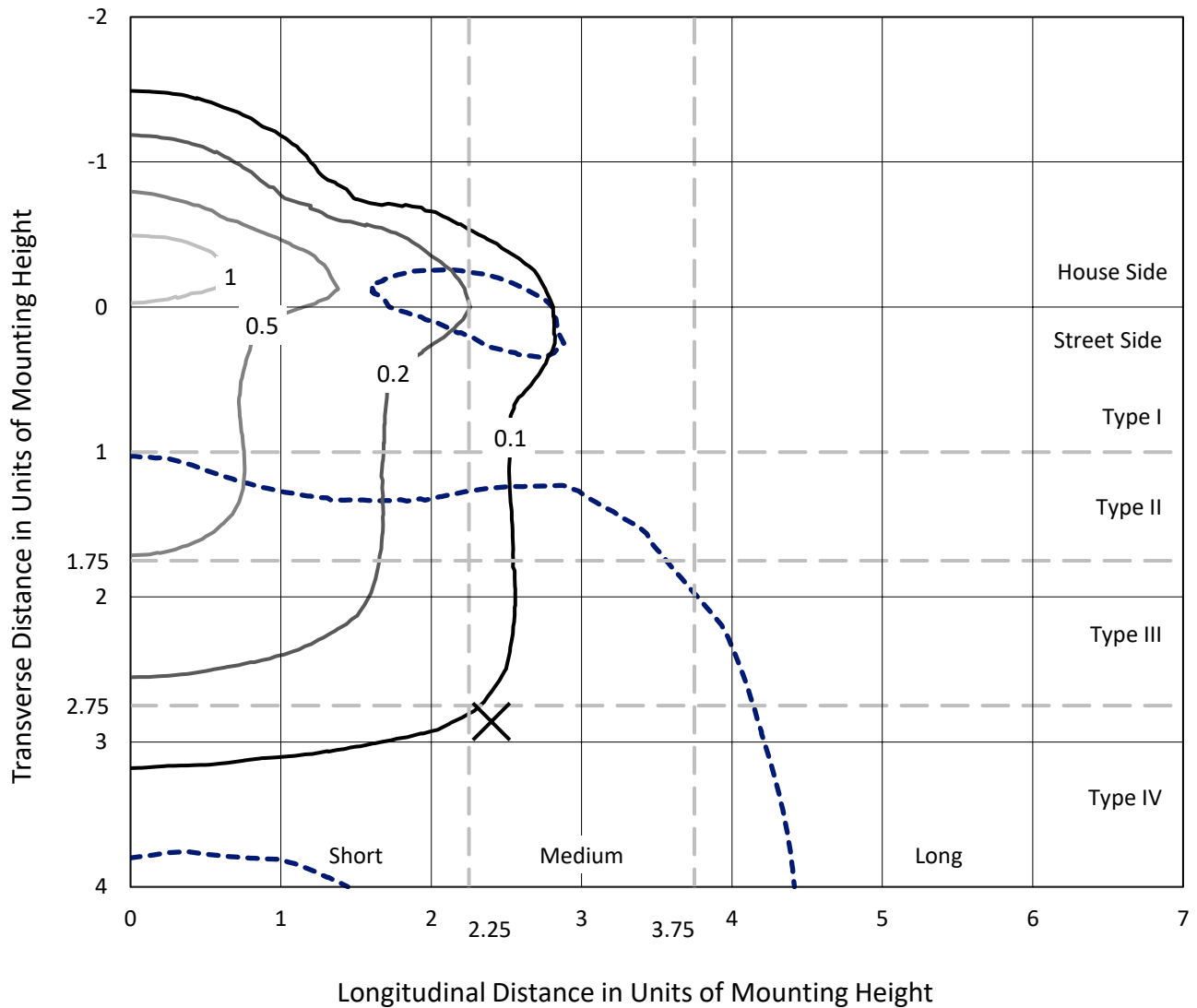
Lumens per Lamp: N/A  
Luminaire Lumens: 5341 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P938992  
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### Iso-Footcandle Lines of Horizontal Illumination

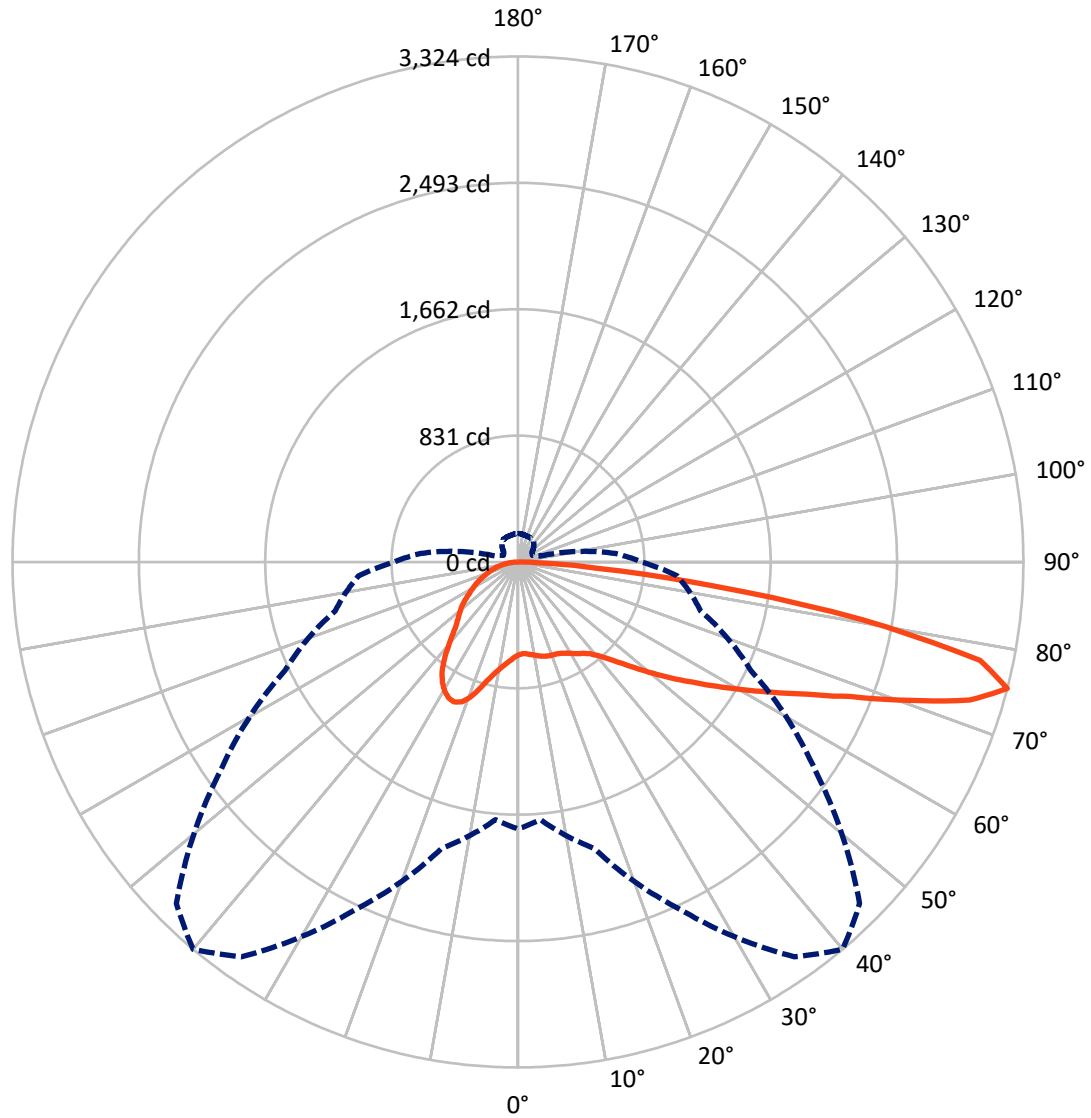
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P938992  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1654.8	0.0	1654.8
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	3686.2	0.0	3686.2
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	5341.0	0.0	5341.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	1.1
10°-20°	204.7	3.8
20°-30°	373.7	7.0
30°-40°	530.1	9.9
40°-50°	715.7	13.4
50°-60°	962.9	18.0
60°-70°	1222.1	22.9
70°-80°	1109.1	20.8
80°-90°	161.7	3.0
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°	5341.0	100.0
0°-180°	5341.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P938992

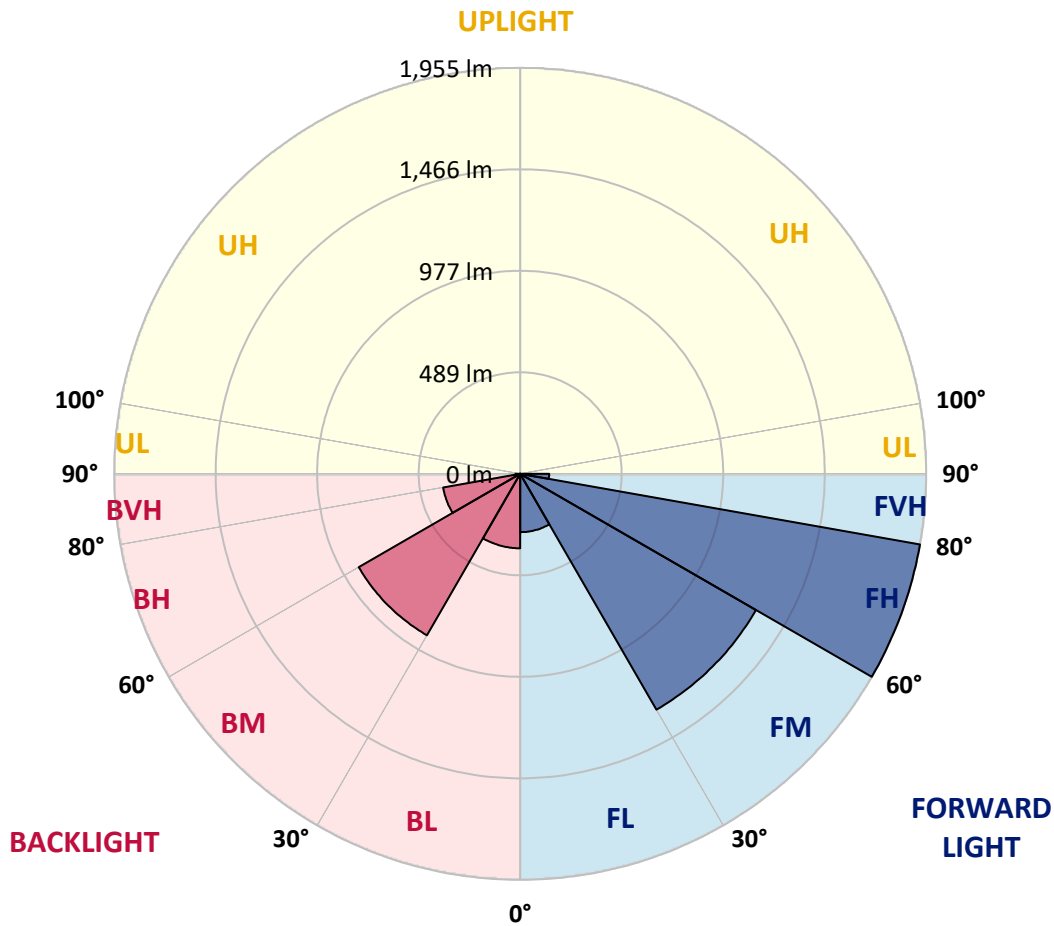
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.9	5.3			
FM (30°-60°)	1311.1	24.5			
FH (60°-80°)	1954.7	36.6			G2/5000
FVH (80°-90°)	139.4	2.6			G2/225
BL (0°-30°)	358.4	6.7	B1/500		
BM (30°-60°)	897.6	16.8	B1/1000		
BH (60°-80°)	376.5	7.0	B1/500		G1/500
BVH (80°-90°)	22.3	0.4			G1/100
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 Medium



REPORT NUMBER: P938992

CATALOG NUMBER: GALN-SB1B-850-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8
2.5°	601.4	604.8	604.0	602.8	602.8	603.1	602.8	604.8	606.8	608.8
5°	607.6	611.0	609.3	607.9	606.8	606.5	605.7	605.4	606.5	609.1
7.5°	619.8	623.2	620.7	618.1	615.8	614.7	613.6	611.9	611.0	612.5
10°	633.4	636.8	633.7	629.2	625.5	624.1	622.9	621.2	620.1	620.9
12.5°	647.0	650.4	646.2	639.9	635.1	634.3	632.8	632.3	632.0	631.7
15°	659.8	662.6	657.2	649.8	644.7	643.3	641.9	642.8	644.2	645.9
17.5°	669.7	672.5	664.6	654.9	650.1	649.6	648.7	651.5	655.5	659.8
20°	678.7	681.6	671.4	658.3	652.7	652.7	653.0	658.9	664.6	670.8
22.5°	691.5	693.8	681.3	663.4	655.2	655.8	658.1	664.0	671.1	679.6
25°	710.5	712.2	696.9	673.1	663.7	665.4	667.4	670.2	677.0	687.0
27.5°	741.1	742.5	722.4	690.1	675.9	678.7	681.6	679.6	682.7	691.2
30°	784.1	785.0	759.5	716.7	696.6	698.0	698.6	690.4	684.4	691.2
32.5°	835.1	834.8	804.5	749.0	720.1	718.7	713.9	697.7	683.8	689.8
35°	914.1	911.0	871.9	794.3	746.7	737.9	726.6	705.9	686.7	688.4
37.5°	1045.0	1035.4	981.3	868.5	786.4	764.0	747.3	719.2	692.9	687.8
40°	1192.6	1180.4	1120.9	970.2	845.9	809.9	783.0	738.2	703.1	690.4
42.5°	1367.7	1350.4	1286.4	1090.1	921.2	869.1	828.6	762.3	718.1	698.6
45°	1582.7	1559.7	1469.1	1225.2	1016.1	946.7	892.6	798.8	741.1	714.4
47.5°	1800.0	1805.6	1676.7	1379.9	1130.0	1042.5	972.8	853.8	774.5	739.9
50°	2030.8	2034.8	1883.2	1551.2	1259.2	1150.7	1062.9	915.3	820.9	776.2
52.5°	2211.0	2211.6	2070.8	1730.6	1393.7	1269.7	1160.0	985.5	874.8	824.3
55°	2323.7	2322.3	2202.2	1900.2	1548.4	1394.6	1267.7	1065.4	940.5	881.0
57.5°	2405.6	2401.4	2292.9	2046.1	1713.3	1542.2	1389.5	1156.1	1018.1	948.4
60°	2436.8	2434.2	2354.3	2172.2	1886.6	1705.3	1530.0	1257.5	1106.2	1028.0
62.5°	2448.7	2453.5	2414.7	2294.3	2072.2	1886.1	1684.4	1378.7	1205.4	1118.1
65°	2490.6	2499.4	2491.4	2454.0	2281.8	2097.7	1889.2	1522.9	1313.6	1214.7
67.5°	2573.6	2582.4	2585.8	2645.3	2537.9	2361.4	2144.7	1702.5	1440.2	1315.0
70°	2571.6	2569.1	2629.1	2797.4	2858.6	2726.6	2489.2	1923.5	1591.2	1398.3
72.5°	2340.7	2320.3	2462.3	2795.7	3125.4	3107.9	2909.8	2208.4	1721.5	1408.5
75°	1756.0	1701.7	1952.4	2519.5	3169.9	3324.3	3177.3	2385.2	1690.6	1244.4
77.5°	751.0	696.3	991.8	1865.1	2837.0	3107.6	2931.9	2081.0	1349.5	822.9
80°	196.6	196.3	299.7	845.6	1929.4	2294.8	2013.3	1343.9	771.1	294.0
82.5°	81.3	79.3	110.2	328.9	942.8	1287.8	1051.0	599.4	278.5	79.6
85°	30.3	30.0	53.5	113.6	332.6	531.1	384.4	153.3	69.4	38.8
87.5°	8.5	8.2	11.6	39.4	81.0	122.9	65.7	25.2	19.5	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938992  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
610.8	0°	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8
611.9	2.5°	612.7	614.1	616.7	618.7	621.2	624.1	628.0	630.6	633.1	634.8
613.3	5°	615.3	618.4	624.9	631.4	639.1	646.2	654.4	660.3	665.1	666.6
618.4	7.5°	620.9	626.0	637.1	648.1	660.3	671.9	683.8	694.0	702.2	705.4
627.5	10°	630.9	637.7	653.2	668.8	685.0	702.8	718.1	732.8	744.5	749.3
638.2	12.5°	643.3	651.8	672.2	693.8	716.1	740.8	760.6	778.7	793.2	799.7
653.2	15°	659.5	670.5	696.6	725.5	758.3	792.6	817.8	837.9	854.1	862.0
668.8	17.5°	677.0	691.8	724.6	768.3	815.3	860.3	889.8	904.5	921.2	928.9
683.3	20°	694.0	712.2	759.2	822.6	885.2	933.1	956.9	960.9	962.0	962.9
696.9	22.5°	711.6	736.0	802.5	891.2	958.3	991.5	994.9	977.9	954.1	943.0
710.2	25°	730.9	763.2	859.2	966.8	1021.2	1025.2	999.1	957.8	912.7	892.0
720.9	27.5°	749.6	794.6	927.2	1039.1	1066.5	1031.7	975.6	917.0	862.6	840.8
728.6	30°	768.3	830.6	1002.2	1102.2	1087.2	1015.6	938.5	873.1	818.4	795.4
735.4	32.5°	787.2	872.5	1088.6	1147.8	1083.5	981.3	892.3	823.8	775.6	751.5
741.3	35°	808.8	924.1	1170.5	1172.8	1058.9	930.9	831.4	764.9	722.9	703.7
748.4	37.5°	836.8	989.5	1242.7	1179.0	1015.8	856.9	755.8	695.2	660.6	651.8
758.9	40°	871.7	1068.2	1298.0	1169.1	952.1	767.1	673.1	624.6	605.1	607.1
773.1	42.5°	917.0	1156.3	1336.8	1143.6	863.4	674.5	600.6	579.0	588.4	596.3
794.3	45°	975.9	1247.8	1360.9	1100.3	763.2	596.0	557.8	562.9	570.0	570.8
828.6	47.5°	1051.2	1340.5	1376.7	1034.8	660.9	540.8	530.6	531.7	530.3	524.4
879.9	50°	1145.3	1430.6	1390.9	948.1	573.9	506.2	492.6	488.7	469.1	449.8
948.1	52.5°	1252.4	1513.3	1396.9	840.5	506.2	477.3	455.2	430.3	393.8	387.8
1034.0	55°	1371.4	1589.8	1381.6	708.2	449.3	440.2	406.8	376.8	372.8	367.7
1147.0	57.5°	1513.6	1672.2	1350.4	560.6	390.9	396.9	364.3	367.7	360.6	352.7
1292.3	60°	1669.1	1757.5	1295.7	426.1	330.6	342.8	353.2	353.0	351.0	344.5
1445.6	62.5°	1809.0	1813.6	1188.1	326.3	277.6	300.8	329.5	329.2	327.5	323.8
1605.6	65°	1892.3	1805.1	1008.5	256.9	234.0	266.3	297.2	299.4	299.7	299.4
1726.0	67.5°	1877.6	1705.6	762.0	204.5	198.0	231.2	265.1	268.3	270.5	271.1
1741.3	70°	1711.0	1487.2	496.9	163.2	166.0	200.3	234.8	238.0	239.9	242.2
1511.0	72.5°	1333.7	1093.5	284.4	132.0	138.0	173.7	204.8	208.5	209.6	213.9
1051.5	75°	812.7	643.0	153.5	104.0	113.3	148.4	175.1	179.3	181.3	186.4
516.4	77.5°	386.4	278.5	87.5	81.0	91.2	121.2	147.9	152.7	147.3	150.1
142.5	80°	130.6	103.4	55.2	61.8	69.7	94.6	118.4	123.2	111.9	111.3
47.3	82.5°	45.6	41.9	35.1	41.1	45.0	67.7	89.5	95.7	83.3	83.0
21.2	85°	17.8	17.0	19.5	22.4	26.9	41.6	58.9	62.0	51.3	41.4
6.2	87.5°	3.7	4.0	4.8	5.1	8.2	14.4	21.2	26.1	20.7	17.6
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>
610.8
633.7
667.1
705.6
749.6
799.7
861.5
928.6
965.1
946.2
895.2
843.3
798.0
754.7
707.9
658.1
613.9
603.7
576.5
528.9
452.4
389.8
368.5
351.3
342.2
322.4
299.4
271.7
243.3
215.6
187.0
147.9
110.2
79.0
40.8
16.1
0.0

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