

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: P939514

Luminaire Tested: **GALN-SB2A-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-927-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

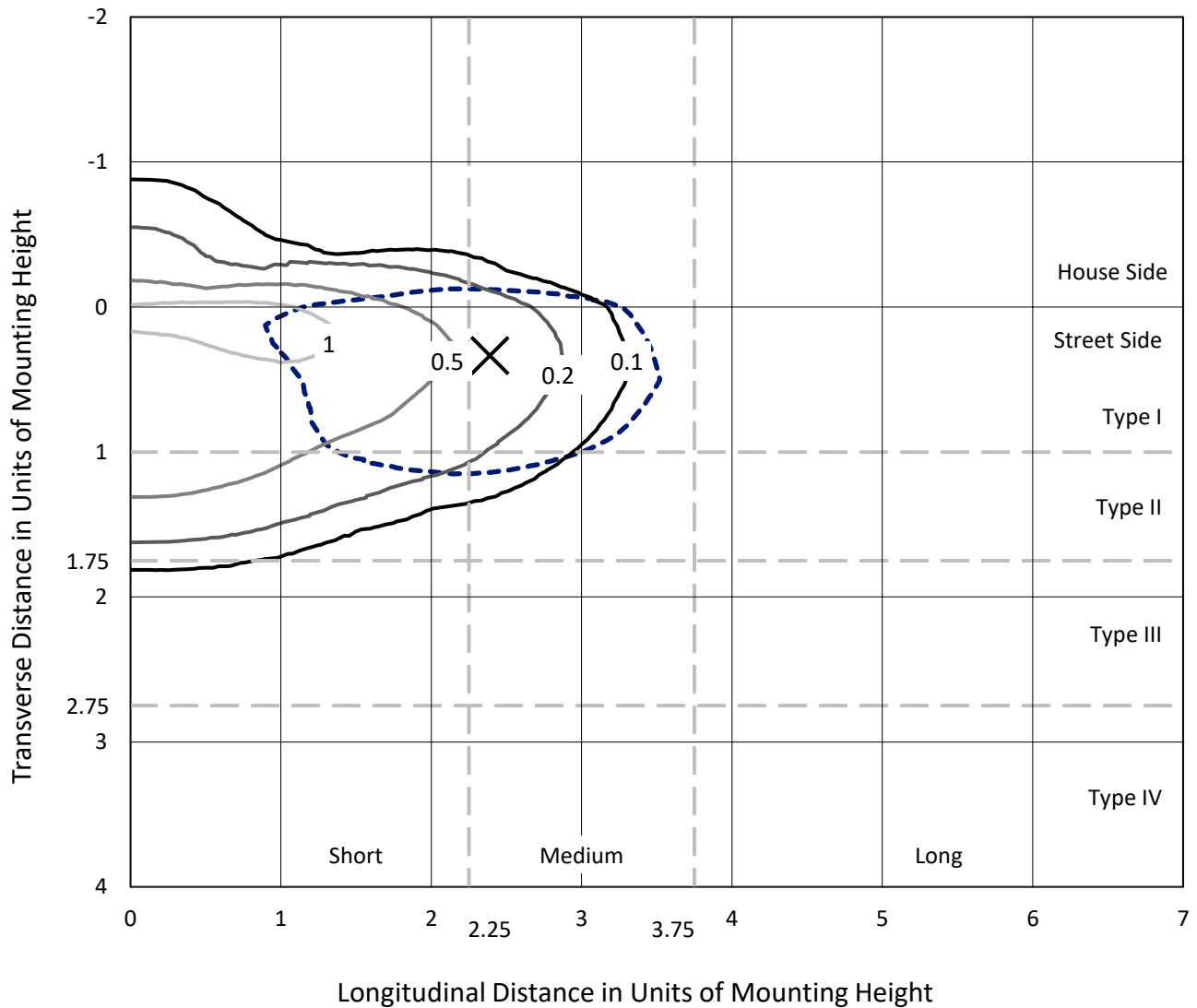
Lumens per Lamp: N/A  
Luminaire Lumens: 3987 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

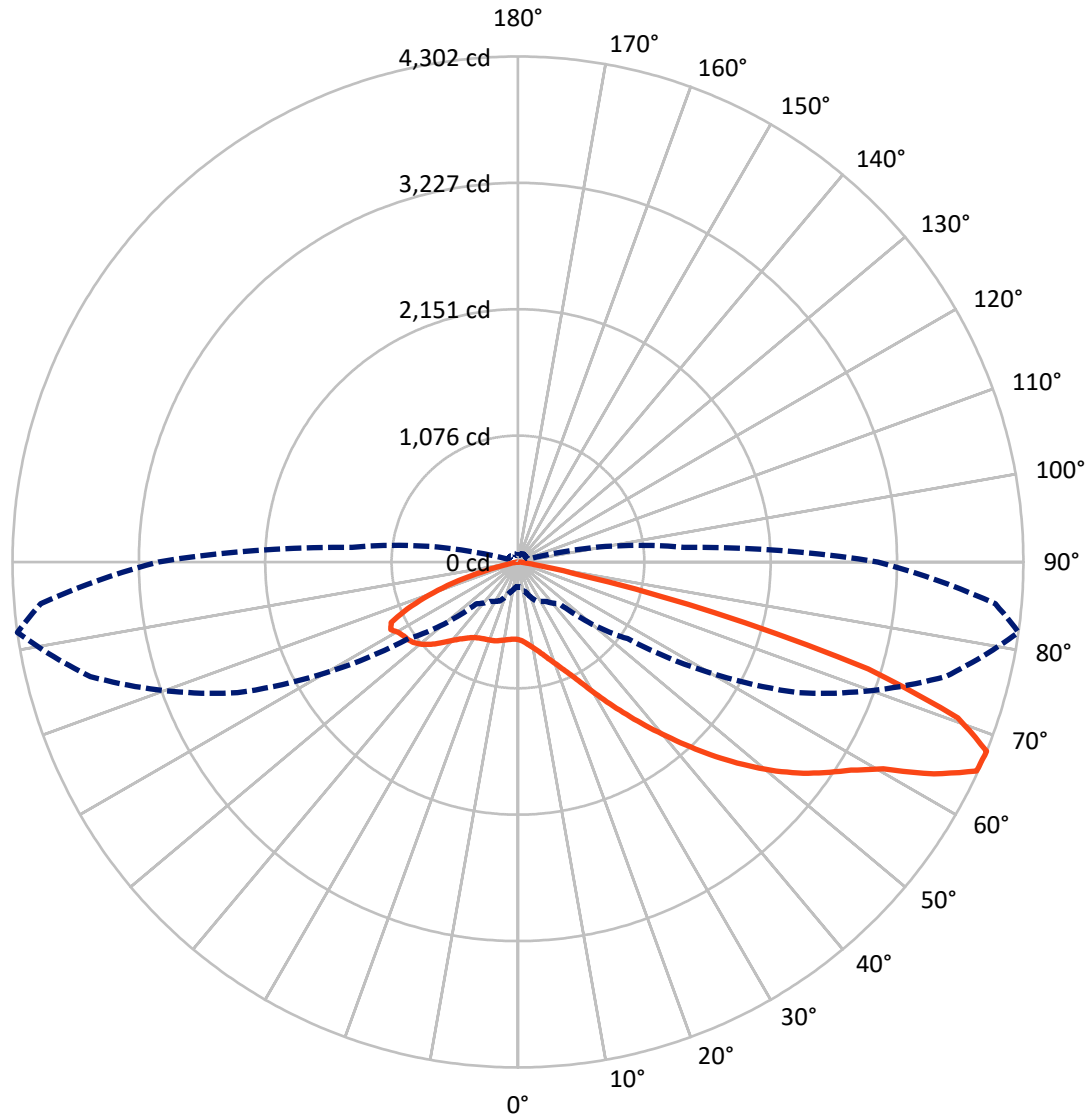
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	722.2	0.0	722.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3264.8	0.0	3264.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	3987.0	0.0	3987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	1.5
10°-20°	152.9	3.8
20°-30°	244.9	6.1
30°-40°	433.1	10.9
40°-50°	758.8	19.0
50°-60°	1012.1	25.4
60°-70°	942.2	23.6
70°-80°	361.6	9.1
80°-90°	22.5	0.6
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°	3987.0	100.0
0°-180°	3987.0	100.0

**Coefficient of Utilization**



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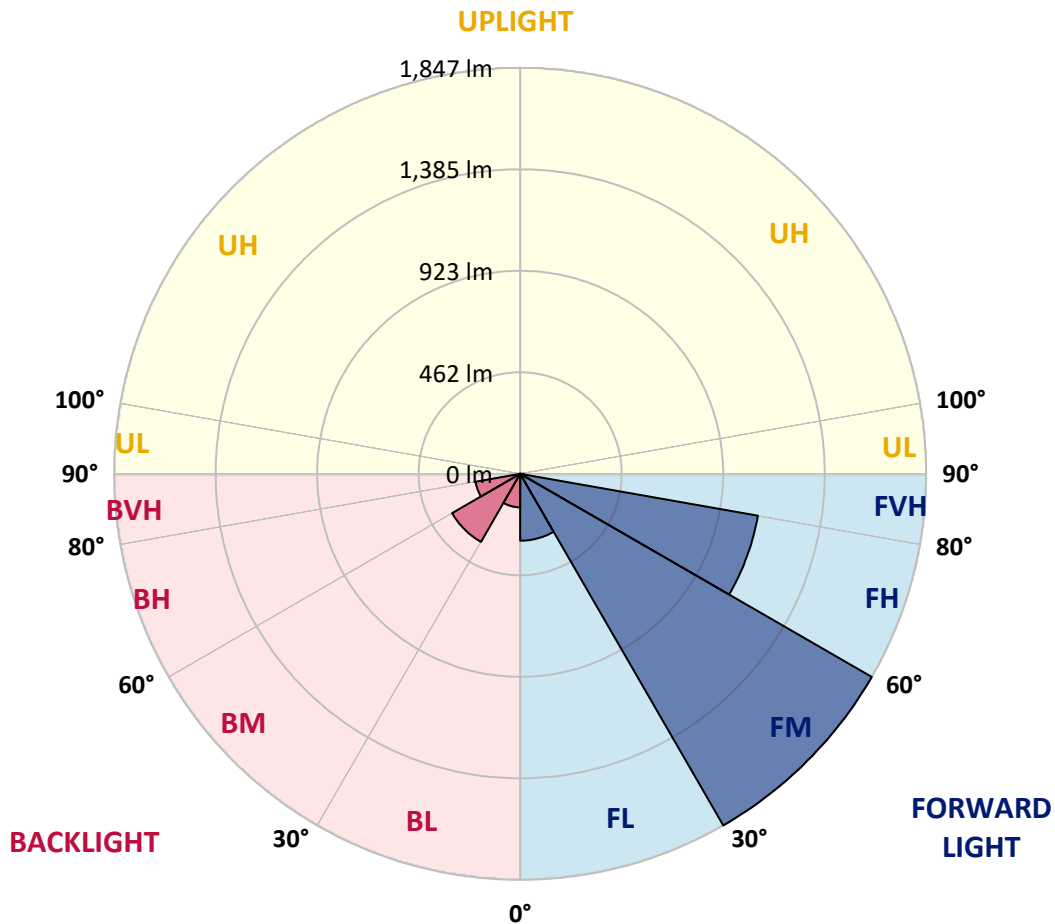
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.2	7.6			
FM (30°-60°)	1846.6	46.3			
FH (60°-80°)	1097.7	27.5			G1/1800
FVH (80°-90°)	16.3	0.4			G1/100
BL (0°-30°)	152.5	3.8	B1/500		
BM (30°-60°)	357.4	9.0	B1/1000		
BH (60°-80°)	206.1	5.2	B1/500		G1/500
BVH (80°-90°)	6.1	0.2			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5
2.5°	698.1	702.1	699.8	698.7	696.7	693.8	691.5	684.3	676.9	672.0
5°	712.2	716.2	715.9	717.1	718.5	719.4	718.8	710.7	700.1	691.8
7.5°	700.1	704.7	708.4	714.2	724.2	734.9	740.0	738.3	727.4	715.9
10°	666.0	670.8	679.7	693.2	714.5	737.4	756.7	765.6	758.7	746.1
12.5°	603.4	608.3	625.8	655.1	690.7	730.6	767.3	791.1	792.8	780.2
15°	533.1	537.9	556.6	593.3	647.6	711.6	773.0	818.1	833.3	822.4
17.5°	489.4	493.7	507.8	537.4	593.9	673.7	771.0	846.8	881.5	872.9
20°	476.2	480.0	486.6	507.2	554.3	634.4	757.8	873.8	933.5	928.6
22.5°	490.3	493.7	495.7	504.9	534.5	608.6	741.2	901.3	993.8	994.4
25°	522.7	526.2	523.9	529.6	542.5	600.5	734.9	933.8	1069.6	1075.9
27.5°	576.1	576.4	571.0	570.7	572.7	612.6	741.5	968.5	1165.2	1176.9
30°	683.2	678.9	657.9	635.3	624.9	648.7	759.8	1009.6	1278.0	1298.9
32.5°	848.2	841.9	803.5	749.2	694.7	707.0	792.8	1056.4	1400.8	1438.7
35°	1027.4	1025.6	985.5	904.8	809.5	790.0	846.5	1117.8	1534.9	1595.2
37.5°	1193.9	1193.0	1170.0	1075.0	959.0	905.7	932.6	1198.2	1678.4	1765.7
40°	1346.0	1348.6	1325.6	1240.6	1123.8	1054.1	1049.8	1297.5	1838.0	1951.4
42.5°	1477.5	1480.3	1457.1	1394.2	1286.6	1218.3	1193.6	1419.2	1993.9	2150.9
45°	1566.7	1584.5	1581.1	1530.9	1453.6	1382.7	1366.4	1571.9	2171.6	2362.5
47.5°	1592.0	1608.4	1634.2	1641.1	1594.0	1524.3	1543.8	1755.9	2351.3	2574.3
50°	1529.7	1544.9	1598.6	1670.1	1702.8	1681.3	1716.3	1953.1	2535.3	2785.6
52.5°	1406.9	1422.4	1490.1	1603.2	1736.7	1804.4	1889.4	2147.5	2713.5	2985.6
55°	1229.2	1245.5	1332.5	1460.5	1672.1	1855.2	2033.8	2341.5	2876.9	3165.6
57.5°	987.5	999.5	1089.9	1269.1	1509.6	1804.7	2140.3	2553.3	3030.7	3342.5
60°	643.6	654.2	759.3	959.0	1240.4	1635.9	2161.5	2789.6	3235.1	3572.4
62.5°	428.0	435.2	497.5	644.1	873.5	1311.8	2037.2	2978.2	3534.8	3972.5
65°	293.7	300.8	363.1	465.3	564.3	867.8	1679.8	2953.2	3806.3	4290.3
67.5°	209.5	215.6	268.4	364.8	408.5	504.1	1138.7	2634.0	3767.3	4302.4
70°	150.1	153.6	197.2	284.2	324.7	302.8	633.2	2014.5	3298.5	3972.8
72.5°	105.1	106.2	136.9	216.4	261.5	221.0	301.4	1343.1	2494.8	3118.3
75°	71.2	72.6	92.1	158.7	209.8	168.8	159.6	720.2	1464.5	1726.1
77.5°	43.6	44.2	59.4	108.5	157.0	128.6	102.8	305.1	566.6	556.3
80°	24.7	24.7	37.9	67.5	107.1	83.0	72.1	129.7	179.4	157.6
82.5°	13.8	14.1	27.6	41.9	70.9	49.1	39.6	60.0	77.5	68.6
85°	5.7	6.3	16.9	19.8	33.9	24.4	16.1	25.3	28.7	25.5
87.5°	0.6	0.9	5.2	3.7	4.0	4.9	2.3	4.9	4.0	4.0
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°
660.5	0°	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5
670.3	2.5°	664.8	660.5	649.6	637.0	620.3	612.3	601.4	593.9	587.6	588.2
686.9	5°	677.7	666.8	642.4	612.0	574.1	547.1	518.4	498.6	482.5	479.1
709.9	7.5°	695.5	678.3	635.5	580.7	516.7	468.2	424.8	397.0	377.2	370.9
737.7	10°	718.5	693.5	626.6	541.4	449.2	387.5	341.0	319.2	305.7	301.1
770.5	12.5°	745.2	711.0	614.9	493.4	379.8	320.4	290.8	279.9	275.6	274.1
810.6	15°	778.8	732.8	597.1	436.6	320.9	279.3	266.7	265.2	265.8	265.2
858.9	17.5°	818.7	756.7	568.1	378.0	281.3	258.3	253.8	254.9	256.3	256.1
912.8	20°	862.3	780.2	531.0	326.1	254.3	243.4	240.8	242.0	243.1	242.6
975.1	22.5°	912.0	805.5	490.0	285.6	236.2	229.6	226.8	227.1	227.1	225.9
1054.1	25°	971.4	833.3	446.9	256.9	222.5	217.3	213.9	212.7	211.0	207.5
1149.9	27.5°	1042.3	862.9	405.6	236.8	211.6	206.7	202.7	199.8	195.5	189.7
1265.0	30°	1122.1	898.8	370.6	224.2	202.9	198.1	193.5	189.2	182.9	175.7
1397.4	32.5°	1216.0	937.2	345.0	215.9	195.2	190.0	184.6	179.4	172.5	165.3
1546.1	35°	1327.9	983.7	330.1	210.1	189.2	182.3	176.3	170.5	165.3	159.0
1707.7	37.5°	1449.3	1033.1	325.5	207.3	185.1	174.5	167.6	163.6	163.0	159.3
1882.5	40°	1582.2	1091.7	329.0	205.5	180.8	167.1	159.6	158.7	160.2	153.6
2069.4	42.5°	1722.9	1161.1	334.7	203.5	174.8	159.6	152.4	152.4	151.3	142.1
2266.9	45°	1875.0	1241.2	340.4	198.6	167.6	152.1	146.7	144.7	139.8	130.9
2465.5	47.5°	2028.3	1322.7	344.8	189.7	159.0	145.8	140.9	136.4	129.2	121.1
2660.4	50°	2173.9	1395.9	340.2	176.5	149.3	139.8	134.6	128.3	120.6	115.1
2845.0	52.5°	2303.9	1459.4	320.6	161.0	138.9	133.5	128.9	122.3	116.0	110.2
3011.5	55°	2417.0	1510.8	286.2	146.4	129.7	128.0	123.4	115.1	106.5	101.6
3176.5	57.5°	2525.5	1549.8	243.1	134.3	121.4	122.0	115.1	107.6	99.6	94.4
3399.0	60°	2669.9	1602.0	199.5	123.1	112.5	114.2	106.8	101.3	91.3	84.7
3780.5	62.5°	2900.7	1683.3	158.5	109.4	102.2	102.8	99.6	93.0	80.9	73.2
4063.2	65°	3083.8	1653.4	124.9	94.4	90.4	91.3	91.3	84.1	71.2	62.3
4078.5	67.5°	3063.2	1415.7	99.6	79.8	79.2	79.8	81.8	75.8	63.2	56.0
3767.9	70°	2821.7	1126.1	79.8	66.3	68.9	67.5	73.2	69.2	56.8	49.7
2921.1	72.5°	2302.5	811.2	60.9	54.8	52.8	55.1	66.0	62.3	47.4	39.3
1547.2	75°	1345.4	432.9	45.4	43.3	38.2	45.9	58.6	53.1	36.2	29.0
474.2	77.5°	438.0	151.0	33.3	31.9	28.4	37.0	49.9	44.8	29.6	23.0
138.9	80°	117.4	45.6	22.7	21.0	18.4	27.6	39.6	35.6	21.2	14.9
59.7	82.5°	47.1	19.2	13.2	11.8	10.0	18.9	31.3	28.7	15.8	9.5
18.7	85°	15.2	6.3	4.9	3.7	4.6	11.8	18.7	19.5	11.2	4.9
2.9	87.5°	2.0	0.9	0.9	1.1	0.9	2.0	5.7	5.5	3.2	0.6
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>
660.5
582.4
471.3
364.6
297.7
273.3
265.0
255.5
242.3
225.3
207.0
189.2
175.1
165.6
158.5
159.0
153.9
142.1
130.6
120.8
114.2
109.7
101.0
93.9
83.8
72.6
61.4
54.8
48.8
38.5
28.1
22.1
14.6
9.5
3.7
0.0
0.0

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