

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: P944911

Luminaire Tested: **GALN-SB1A-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4607 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

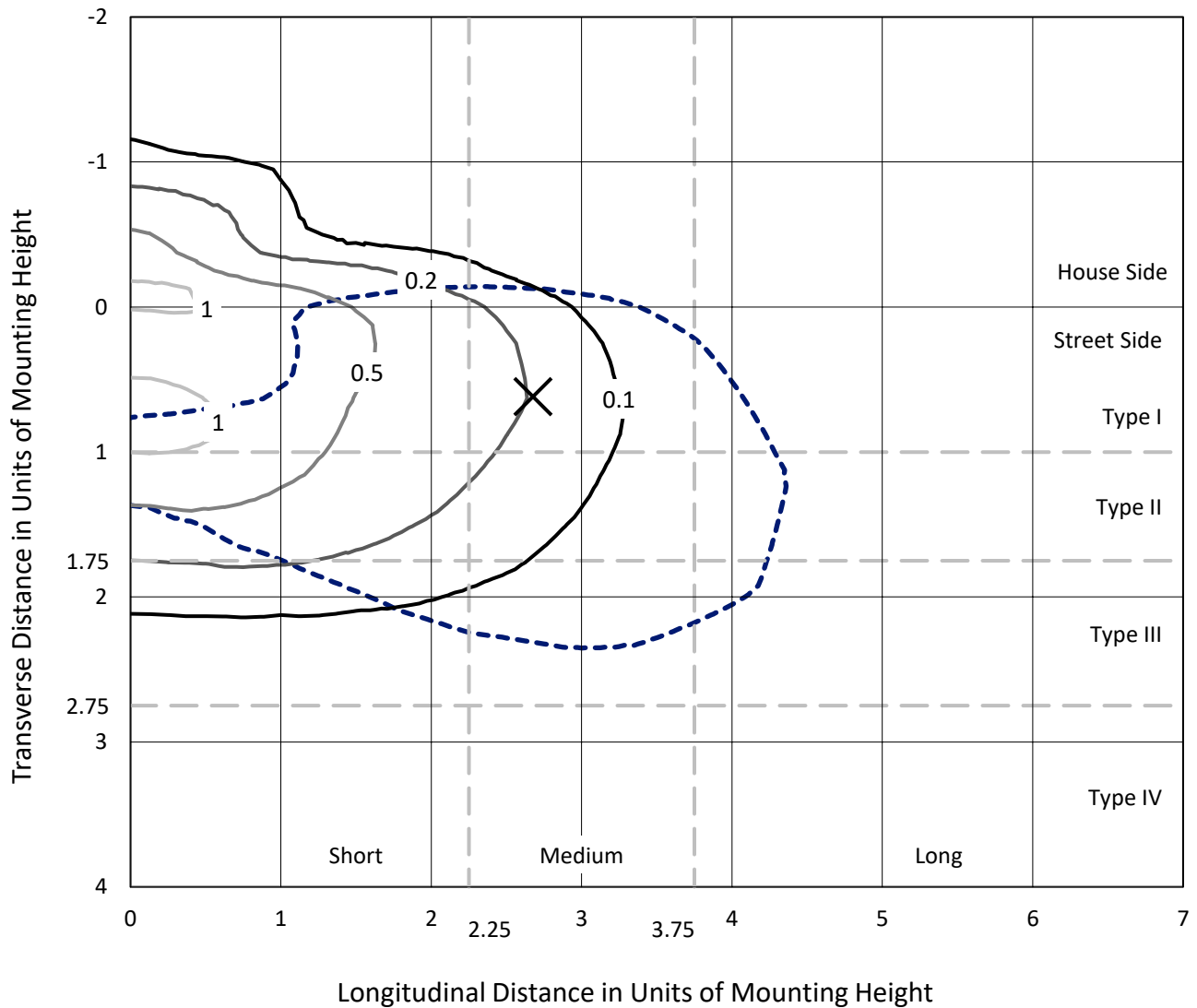
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

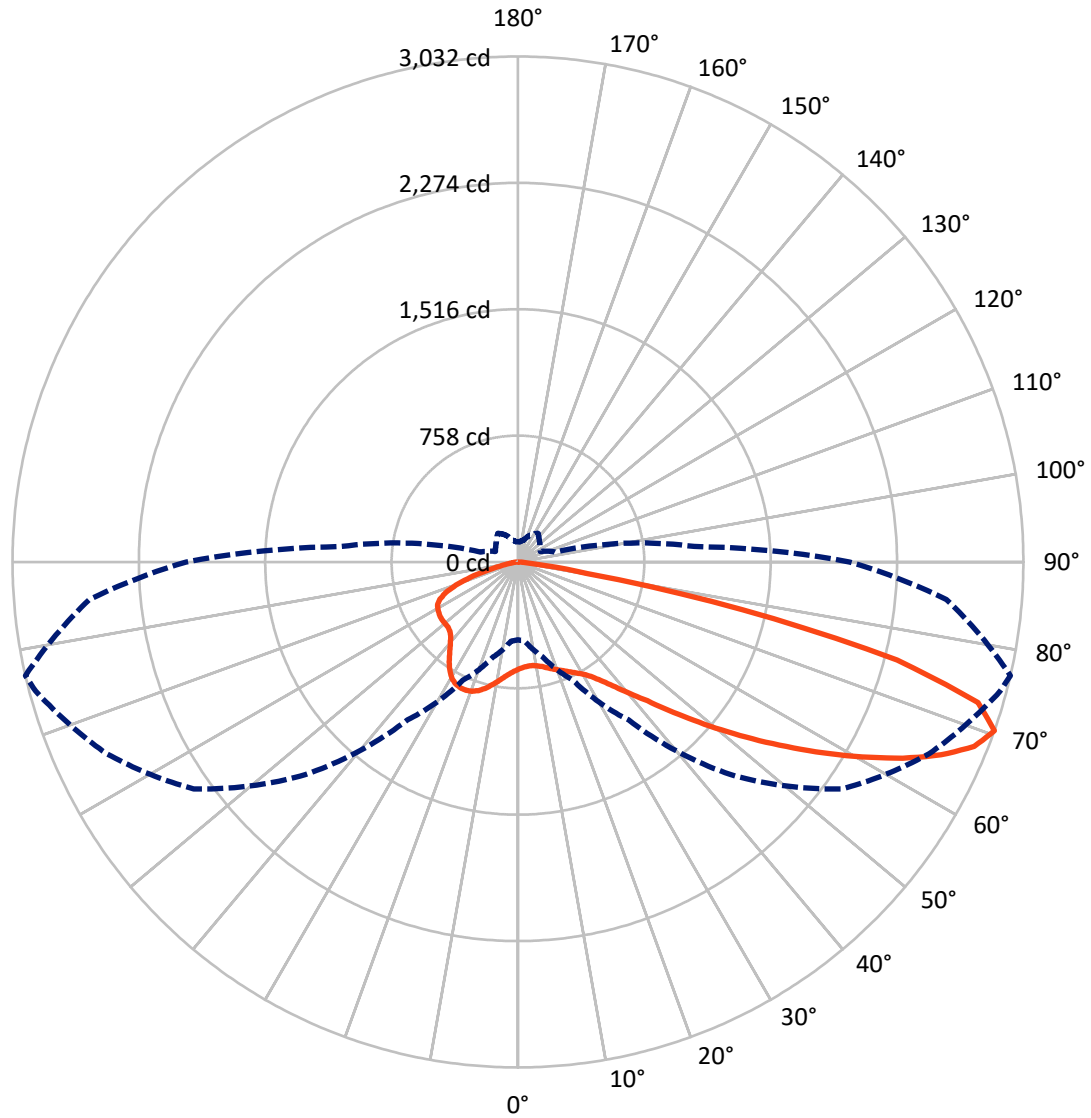
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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
House Side	Lumens	1008.9	0.0	1008.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3598.1	0.0	3598.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	4607.0	0.0	4607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.3
10°-20°	176.9	3.8
20°-30°	302.5	6.6
30°-40°	486.5	10.6
40°-50°	759.6	16.5
50°-60°	1014.6	22.0
60°-70°	1081.4	23.5
70°-80°	665.7	14.5
80°-90°	58.3	1.3
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°	4607.0	100.0
0°-180°	4607.0	100.0

Coefficient of Utilization



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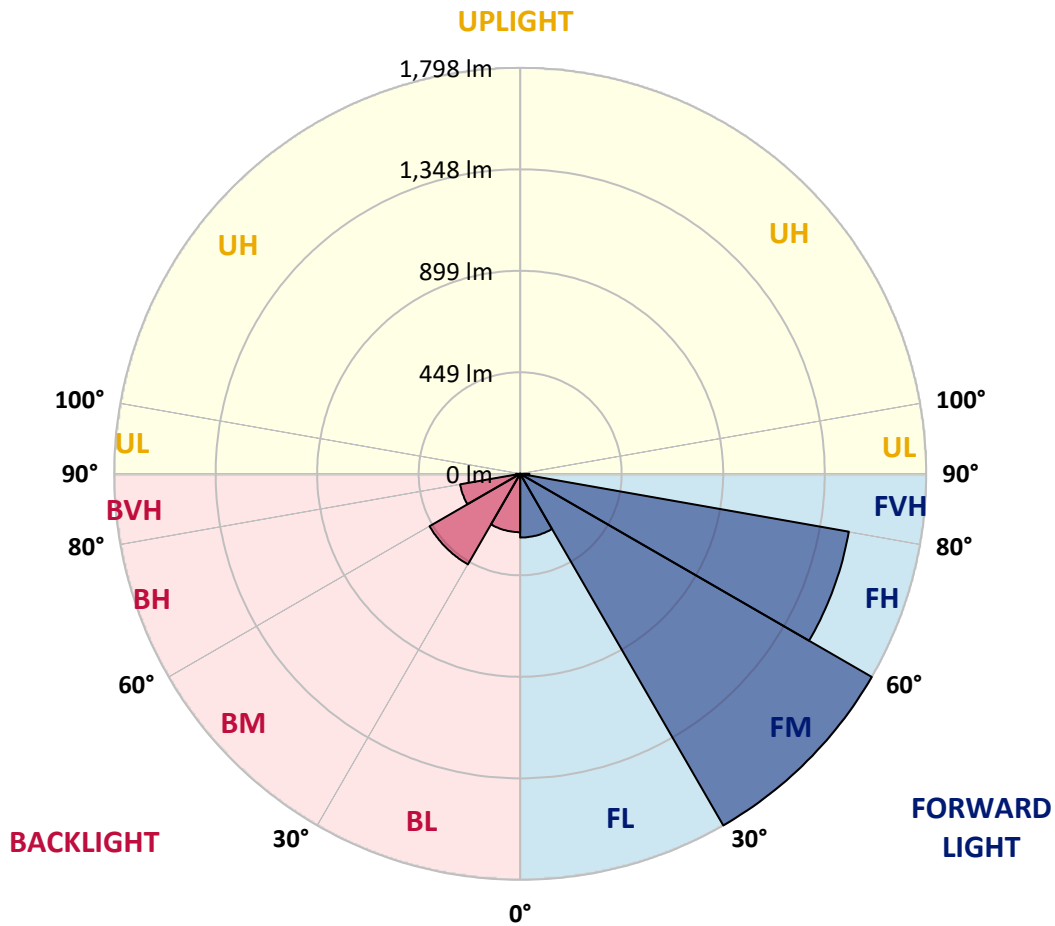
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.3	6.1			
FM (30°-60°)	1797.6	39.0			
FH (60°-80°)	1477.5	32.1			G1/1800
FVH (80°-90°)	40.8	0.9			G1/100
BL (0°-30°)	258.5	5.6	B1/500		
BM (30°-60°)	463.2	10.1	B1/1000		
BH (60°-80°)	269.6	5.9	B1/500		G1/500
BVH (80°-90°)	17.5	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	642.7	642.7	642.7	642.7	642.7	642.7	642.7	642.7	642.7	642.7
2.5°	592.5	592.2	595.3	596.2	601.9	605.9	613.5	621.5	631.9	633.0
5°	558.2	558.2	561.8	565.6	572.9	580.9	592.5	606.4	624.3	627.1
7.5°	529.2	531.1	534.2	541.5	550.0	561.6	579.2	599.1	622.7	627.1
10°	505.9	508.0	511.8	517.7	530.4	546.5	569.6	595.1	626.7	633.8
12.5°	498.6	500.7	502.8	507.3	519.1	538.0	565.6	596.9	636.3	643.4
15°	515.5	518.1	516.5	515.3	521.4	538.7	567.5	603.8	648.4	658.5
17.5°	554.7	555.7	551.9	540.8	539.8	549.0	576.4	613.2	663.5	674.6
20°	617.9	616.3	608.5	586.6	574.1	572.2	591.8	627.4	679.1	690.9
22.5°	703.8	701.9	686.4	651.7	623.8	605.4	613.9	645.8	696.5	709.7
25°	810.9	808.4	785.5	738.3	695.1	649.6	644.1	670.1	718.0	730.3
27.5°	936.0	933.9	909.1	846.8	784.5	710.0	681.6	698.6	740.4	754.3
30°	1070.5	1076.6	1032.7	965.7	886.9	788.8	732.1	733.8	769.4	781.9
32.5°	1228.6	1239.2	1186.3	1101.4	993.8	874.4	795.8	782.9	811.7	822.0
35°	1385.2	1397.3	1353.4	1259.5	1135.6	975.4	862.4	839.3	867.8	879.1
37.5°	1520.7	1536.7	1514.1	1432.4	1287.3	1097.2	949.2	905.6	936.9	951.1
40°	1627.6	1652.1	1650.4	1599.5	1466.2	1244.9	1059.4	987.4	1022.8	1038.2
42.5°	1714.4	1735.6	1754.0	1751.4	1652.8	1412.6	1188.9	1093.8	1120.7	1138.4
45°	1774.3	1797.0	1836.6	1879.3	1832.4	1592.2	1337.3	1220.1	1244.6	1271.3
47.5°	1827.9	1853.6	1905.0	1972.7	1984.8	1772.4	1499.9	1367.1	1389.5	1417.1
50°	1832.6	1854.8	1934.5	2030.6	2093.1	1945.6	1674.5	1532.0	1553.0	1582.5
52.5°	1718.6	1753.6	1892.8	2028.9	2142.9	2090.5	1847.9	1703.5	1727.1	1762.5
55°	1334.0	1385.2	1770.3	1965.7	2125.2	2184.2	2012.9	1885.9	1916.1	1953.2
57.5°	1149.1	1171.5	1405.3	1850.5	2044.5	2208.5	2152.1	2070.2	2118.8	2159.4
60°	1032.7	1051.4	1189.6	1671.4	1938.3	2170.0	2259.7	2242.0	2326.0	2374.3
62.5°	908.2	925.9	1051.6	1395.6	1802.4	2106.1	2327.6	2400.5	2538.3	2591.2
65°	784.5	799.6	920.2	1172.7	1629.7	2042.1	2362.8	2537.6	2734.9	2789.6
67.5°	646.7	659.2	773.2	989.3	1419.7	1954.6	2380.2	2645.4	2905.9	2952.9
70°	466.7	476.4	594.1	782.4	1156.1	1804.0	2373.2	2721.9	2994.6	3032.1
72.5°	220.6	229.3	367.6	508.0	816.6	1511.0	2229.9	2661.2	2904.5	2885.9
75°	117.7	125.3	211.2	278.7	431.3	1035.8	1824.8	2292.5	2439.0	2348.4
77.5°	79.7	85.6	130.7	167.3	197.0	491.7	1172.9	1587.2	1527.0	1377.5
80°	63.2	69.4	107.1	113.3	95.3	177.7	484.6	734.7	527.8	422.1
82.5°	48.6	55.4	90.1	82.1	51.9	72.9	141.1	232.4	135.2	102.9
85°	29.7	37.0	70.8	52.4	29.3	33.3	47.9	64.6	41.3	34.4
87.5°	15.1	21.2	35.9	19.1	13.2	7.8	12.7	12.7	10.9	9.4
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°
642.7	0°	642.7	642.7	642.7	642.7	642.7	642.7	642.7	642.7	642.7	642.7
639.4	2.5°	645.1	649.8	657.8	665.4	671.3	676.9	682.6	685.7	686.6	690.4
643.0	5°	652.6	661.4	676.9	691.6	700.8	706.4	710.4	712.8	713.3	714.4
652.6	7.5°	666.5	680.5	702.2	716.8	723.6	723.2	721.5	715.6	713.3	711.1
666.8	10°	686.1	704.5	731.2	741.3	737.1	725.8	711.1	693.9	685.9	678.1
686.1	12.5°	710.4	733.8	760.0	759.5	738.5	709.5	675.5	649.1	632.3	620.3
710.0	15°	739.9	766.8	786.9	770.8	724.8	672.7	622.9	588.5	573.4	560.1
734.0	17.5°	770.4	799.2	808.4	767.3	690.4	618.2	561.8	534.7	519.8	512.7
760.0	20°	800.1	828.6	821.1	747.0	638.0	556.4	506.1	491.2	488.2	489.8
785.2	22.5°	831.5	857.0	823.7	707.8	571.2	493.1	465.5	466.0	472.8	477.8
811.7	25°	863.6	880.8	816.8	651.2	499.5	446.6	439.8	447.4	460.8	470.5
841.4	27.5°	894.5	902.0	802.0	581.1	437.9	413.4	414.6	430.1	450.4	463.9
877.5	30°	929.4	920.9	773.4	502.3	395.2	384.8	394.7	412.9	433.2	445.2
923.0	32.5°	968.8	937.2	728.1	429.4	365.0	361.9	378.2	390.0	399.0	402.5
983.4	35°	1017.9	960.1	670.1	378.2	337.9	345.2	360.8	354.9	351.3	349.4
1064.6	37.5°	1081.6	991.0	602.1	345.0	315.9	333.2	339.5	321.1	307.2	300.4
1163.0	40°	1158.3	1036.3	536.8	319.2	302.0	322.8	311.7	289.5	271.8	262.1
1273.6	42.5°	1243.4	1083.7	481.8	299.9	294.2	314.3	291.2	264.7	236.2	233.1
1405.5	45°	1332.9	1132.5	444.3	285.0	290.5	307.0	279.4	236.7	216.4	228.9
1537.9	47.5°	1422.3	1177.4	421.6	273.9	288.6	298.7	269.0	221.1	206.7	224.9
1679.7	50°	1521.9	1217.5	411.5	265.9	286.4	295.4	253.4	217.1	196.5	208.6
1826.5	52.5°	1620.7	1248.6	403.9	257.9	283.4	292.8	245.9	212.4	184.3	185.0
1974.2	55°	1719.3	1268.9	395.7	247.3	276.5	287.1	245.1	207.2	175.1	171.8
2130.4	57.5°	1824.6	1280.5	385.5	235.5	264.7	272.8	244.4	203.2	172.2	166.8
2290.1	60°	1931.7	1297.5	372.3	221.1	248.9	255.5	242.8	201.7	170.6	161.4
2440.6	62.5°	2027.7	1303.4	356.5	207.4	228.6	238.5	239.2	200.6	166.1	150.3
2565.7	65°	2090.7	1277.9	328.9	191.8	206.7	221.1	232.4	196.5	158.1	142.3
2627.5	67.5°	2088.1	1205.2	285.7	171.8	185.5	201.7	222.5	189.7	148.4	132.4
2580.8	70°	1990.9	1061.8	231.0	148.4	162.1	181.0	209.8	179.6	136.8	121.5
2294.8	72.5°	1707.5	831.0	167.8	121.0	135.0	159.5	193.2	167.3	125.1	111.8
1696.0	75°	1219.8	525.9	113.7	93.0	105.0	135.2	172.7	152.9	114.2	112.3
849.4	77.5°	623.1	251.3	75.3	68.0	73.1	106.6	145.1	136.6	115.8	92.7
241.6	80°	202.7	92.7	47.4	46.2	48.6	71.0	112.3	112.1	87.8	63.0
58.5	82.5°	64.6	39.9	30.9	29.7	28.5	44.6	78.3	88.7	59.2	39.9
21.0	85°	25.7	23.8	18.2	16.8	12.0	21.0	41.1	59.0	44.1	28.8
5.4	87.5°	9.4	9.4	5.0	3.5	2.6	7.1	11.1	17.7	25.2	14.9
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>
642.7
692.5
716.3
711.6
675.8
617.5
558.7
514.8
489.1
479.0
473.1
467.2
448.1
404.4
351.3
302.0
262.8
236.2
235.5
233.4
217.5
189.9
174.1
167.5
162.1
150.3
142.3
133.1
122.9
111.1
105.9
82.6
55.7
39.6
29.5
14.6
0.0

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