

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: P939466

Luminaire Tested: **GALN-SB2A-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6118 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

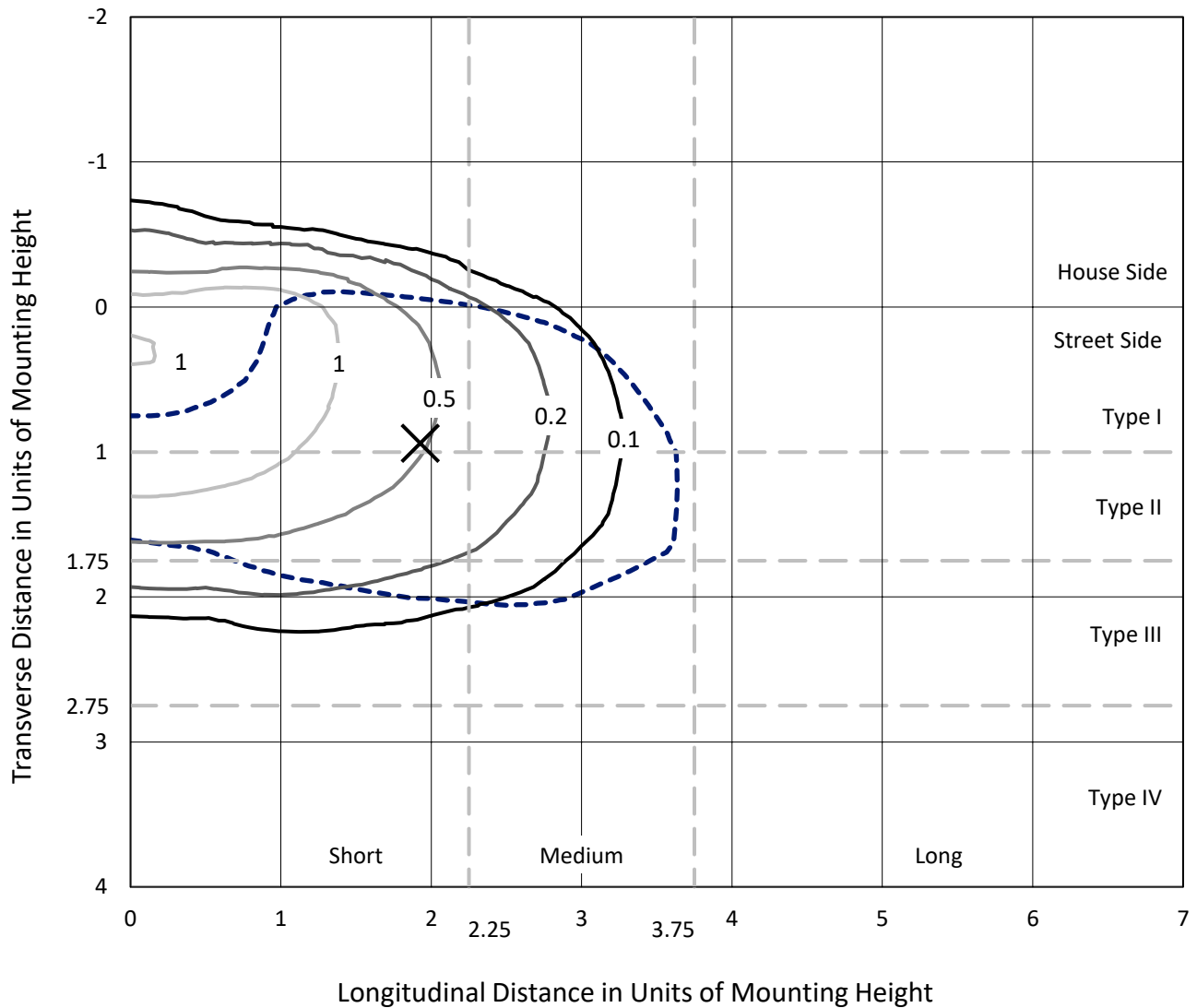
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

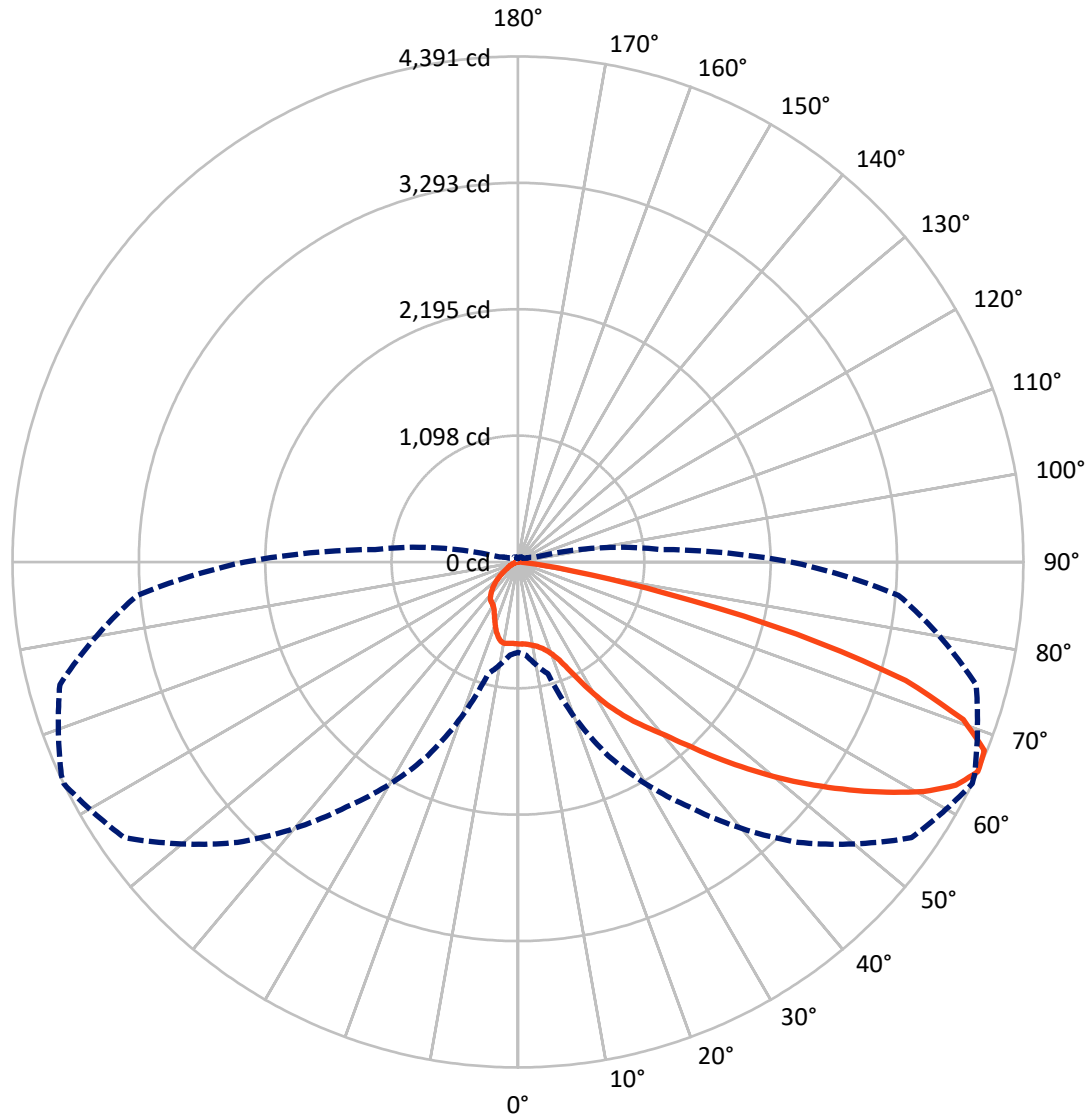
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	818.2	0.0	818.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5299.9	0.0	5299.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	6118.0	0.0	6118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	1.1
10°-20°	178.1	2.9
20°-30°	337.4	5.5
30°-40°	682.8	11.2
40°-50°	1163.1	19.0
50°-60°	1581.7	25.9
60°-70°	1485.3	24.3
70°-80°	595.1	9.7
80°-90°	28.8	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°	6118.0	100.0
0°-180°	6118.0	100.0

Coefficient of Utilization



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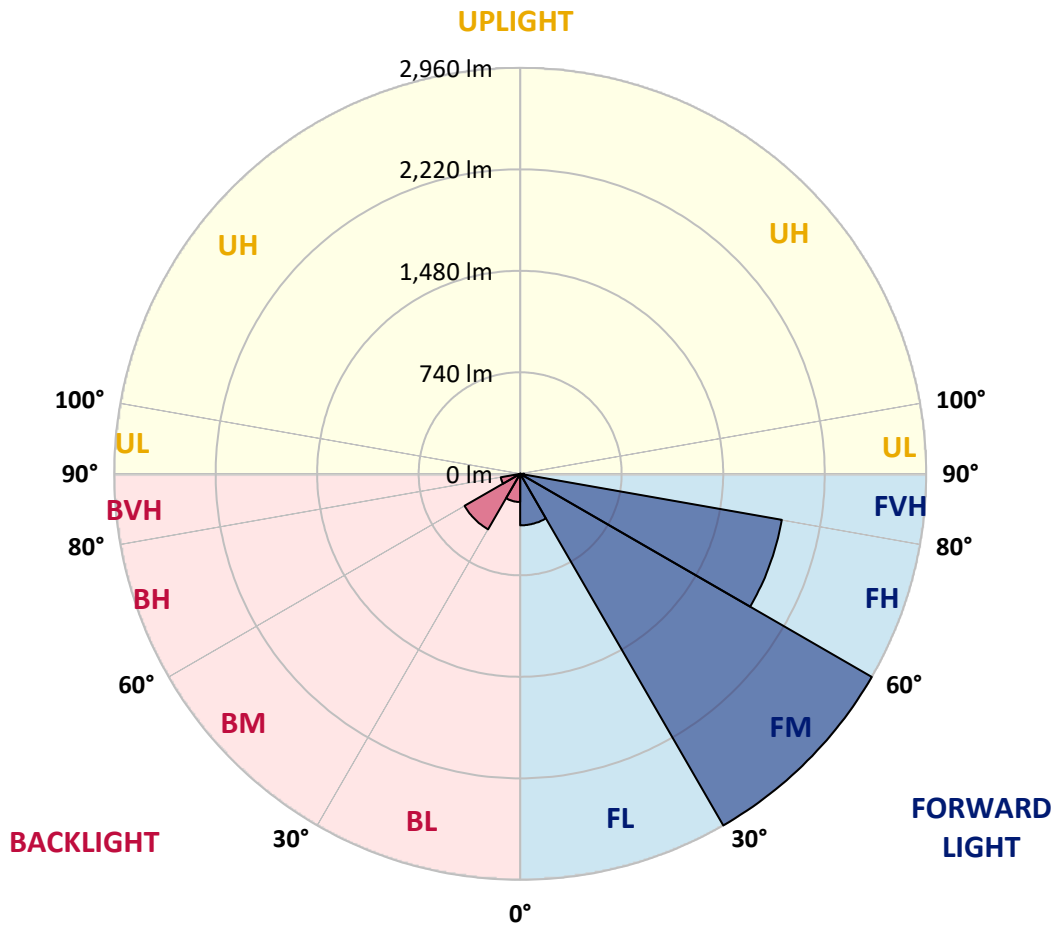
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.7	6.1			
FM (30°-60°)	2959.9	48.4			
FH (60°-80°)	1936.8	31.7			G2/5000
FVH (80°-90°)	27.4	0.4			G1/100
BL (0°-30°)	205.4	3.4	B1/500		
BM (30°-60°)	467.7	7.6	B1/1000		
BH (60°-80°)	143.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6
2.5°	709.1	714.0	712.8	711.6	711.2	712.0	712.4	712.0	712.0	712.0
5°	695.6	699.7	699.7	702.6	706.7	711.6	715.3	716.1	716.9	718.1
7.5°	669.8	673.0	675.5	684.9	695.2	708.3	719.4	725.1	725.9	730.5
10°	652.1	656.2	660.3	670.2	684.9	704.6	723.5	737.4	739.5	750.1
12.5°	651.3	655.4	660.7	671.4	688.6	709.5	732.5	752.6	756.3	771.9
15°	659.9	664.8	669.8	682.9	701.3	726.8	751.4	776.4	780.1	802.2
17.5°	677.5	684.1	687.8	700.9	720.6	748.9	781.3	810.0	813.3	839.1
20°	712.4	720.2	721.4	732.1	751.4	781.7	820.3	856.0	860.1	889.6
22.5°	784.6	795.7	785.8	791.2	808.4	838.7	880.6	925.7	931.4	965.1
25°	911.7	927.3	901.9	892.9	900.2	931.8	984.3	1041.3	1047.9	1075.0
27.5°	1161.5	1141.4	1102.9	1065.1	1043.0	1061.0	1120.1	1190.6	1198.8	1225.1
30°	1435.9	1418.3	1366.2	1282.5	1230.0	1227.1	1281.7	1360.4	1369.9	1394.9
32.5°	1710.7	1693.9	1637.3	1534.3	1443.3	1398.2	1435.9	1523.2	1528.2	1544.2
35°	1981.0	1963.7	1907.1	1801.7	1689.8	1587.2	1579.8	1678.3	1679.9	1696.7
37.5°	2252.9	2238.5	2178.2	2074.9	1964.6	1823.1	1754.6	1825.1	1827.2	1843.6
40°	2446.9	2453.0	2411.6	2331.6	2236.9	2082.3	1950.6	1981.4	1969.1	1996.5
42.5°	2613.4	2625.7	2589.6	2549.4	2494.5	2358.3	2193.4	2188.1	2168.4	2183.2
45°	2757.3	2767.6	2735.2	2725.8	2724.5	2629.0	2458.8	2426.8	2399.3	2396.4
47.5°	2810.3	2829.9	2843.9	2875.5	2937.0	2896.8	2733.2	2683.5	2652.8	2630.2
50°	2830.4	2851.3	2898.8	2990.7	3136.3	3153.5	3006.3	2950.5	2912.8	2871.8
52.5°	2803.3	2840.6	2904.6	3059.2	3270.4	3359.4	3268.4	3219.6	3176.5	3109.7
55°	2643.7	2681.1	2811.9	3058.4	3337.3	3503.8	3516.1	3494.4	3446.0	3340.6
57.5°	2307.4	2362.8	2569.9	2954.2	3336.1	3628.1	3758.9	3774.5	3720.3	3569.4
60°	1841.5	1916.6	2169.2	2723.3	3233.1	3695.3	3971.8	4049.7	3992.3	3795.0
62.5°	1285.0	1371.9	1611.0	2361.6	2997.7	3646.9	4127.2	4271.2	4227.7	3996.8
65°	783.8	811.7	1004.4	1858.3	2597.4	3444.3	4175.2	4390.9	4376.6	4120.2
67.5°	522.1	545.5	600.9	1274.3	2016.2	3039.5	4060.4	4370.0	4374.1	4100.1
70°	314.6	334.7	370.8	741.1	1306.7	2405.9	3704.8	4103.4	4127.2	3831.5
72.5°	129.6	143.1	175.9	335.9	676.7	1526.9	2950.1	3523.1	3578.4	3221.6
75°	73.4	80.4	103.4	168.6	293.7	711.6	1787.0	2501.0	2582.6	2220.5
77.5°	48.8	52.1	66.9	109.1	165.3	242.8	763.7	1303.0	1458.9	1212.8
80°	32.8	35.7	45.9	73.0	107.5	104.2	243.2	482.7	593.9	416.7
82.5°	22.1	22.6	32.8	48.0	68.1	50.4	71.8	150.1	188.7	120.6
85°	12.7	12.3	24.2	27.9	30.4	20.9	21.7	45.1	59.1	50.9
87.5°	1.6	2.5	9.4	7.4	4.1	4.5	4.5	7.8	11.5	12.3
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°
711.6	0°	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6
712.4	2.5°	712.4	712.0	710.8	709.5	706.7	705.0	705.8	705.0	704.6	705.0
717.7	5°	717.7	716.5	713.2	709.1	703.4	696.4	691.9	685.3	679.2	675.5
732.1	7.5°	732.1	730.9	726.4	714.9	696.4	667.3	640.6	617.3	599.6	589.4
755.1	10°	755.1	753.0	746.0	720.6	672.2	608.6	555.7	511.9	483.1	469.6
782.1	12.5°	782.1	779.7	767.4	715.3	626.3	527.0	454.0	405.2	378.6	366.7
813.3	15°	814.1	810.8	786.6	689.8	559.4	436.8	369.9	333.4	316.2	305.6
853.1	17.5°	853.9	848.2	801.0	651.7	486.8	367.9	318.3	290.8	275.6	265.4
905.2	20°	905.6	896.1	812.5	606.2	420.0	324.4	283.4	260.4	249.0	239.9
979.0	22.5°	977.8	964.2	826.4	557.0	372.8	294.5	257.6	240.8	231.3	221.1
1081.9	25°	1067.2	1051.2	843.7	511.4	340.4	268.6	238.7	224.8	213.7	201.8
1216.9	27.5°	1192.3	1163.6	864.2	474.1	312.5	246.5	221.5	205.9	193.2	183.3
1369.9	30°	1331.7	1284.5	882.2	451.6	287.1	226.0	198.9	183.3	171.4	164.5
1507.3	32.5°	1463.8	1399.8	894.1	441.7	264.1	202.6	174.3	157.5	148.5	146.4
1641.8	35°	1588.5	1504.0	892.9	432.3	243.6	179.2	150.1	132.9	125.9	127.1
1786.6	37.5°	1732.0	1615.1	884.3	417.5	226.8	157.9	129.2	114.0	107.9	108.3
1962.5	40°	1898.9	1743.5	878.9	389.6	208.3	138.2	112.0	99.7	95.2	93.5
2147.9	42.5°	2076.9	1867.8	879.7	358.0	185.4	120.6	100.1	89.8	85.7	84.5
2354.2	45°	2255.8	1986.3	881.0	325.2	161.2	107.0	91.5	82.8	80.4	78.7
2563.4	47.5°	2423.9	2087.2	858.0	290.0	137.4	96.8	84.5	78.7	76.7	74.6
2773.3	50°	2580.6	2154.4	802.6	249.0	118.5	88.6	79.2	75.1	73.0	71.0
2963.6	52.5°	2702.4	2165.1	711.2	206.7	105.4	82.4	75.9	72.2	69.7	67.7
3117.4	55°	2756.5	2098.3	581.2	167.3	95.2	77.1	72.6	68.9	66.0	64.0
3238.4	57.5°	2742.6	1957.6	453.2	134.5	85.3	71.8	68.5	66.0	62.8	59.5
3336.5	60°	2674.1	1769.3	341.6	112.0	76.3	66.0	64.0	61.9	57.4	52.5
3374.2	62.5°	2555.6	1532.7	243.6	92.7	66.4	59.5	58.6	57.0	50.4	41.4
3318.4	65°	2374.3	1245.2	164.1	77.1	57.0	52.1	52.5	49.6	41.0	30.8
3114.2	67.5°	2109.3	910.5	105.0	63.2	47.6	43.5	43.9	42.2	34.9	26.2
2727.0	70°	1771.8	602.9	68.5	48.0	38.1	33.6	36.1	36.5	29.5	21.3
2092.9	72.5°	1298.9	356.0	48.0	35.7	27.9	23.4	29.5	30.4	23.8	16.0
1259.1	75°	740.3	169.0	36.1	25.8	17.2	16.4	23.0	23.0	16.4	10.7
545.1	77.5°	310.9	70.5	25.4	16.8	9.8	9.4	15.6	14.4	8.2	4.9
132.9	80°	89.8	31.6	13.5	8.2	4.1	3.7	6.2	4.5	2.1	0.8
50.4	82.5°	35.3	13.9	5.3	3.3	1.6	1.6	0.8	0.0	0.0	0.0
28.7	85°	20.9	5.7	2.5	1.2	0.4	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	5.3	1.2	0.8	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>
711.6
706.7
676.3
589.8
468.4
365.4
306.0
264.5
238.3
219.4
200.6
181.3
163.2
147.6
127.1
109.9
93.1
84.1
78.7
74.6
71.0
67.3
63.6
59.1
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