

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: P939121

Luminaire Tested: **GALN-SB1C-827-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4547 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

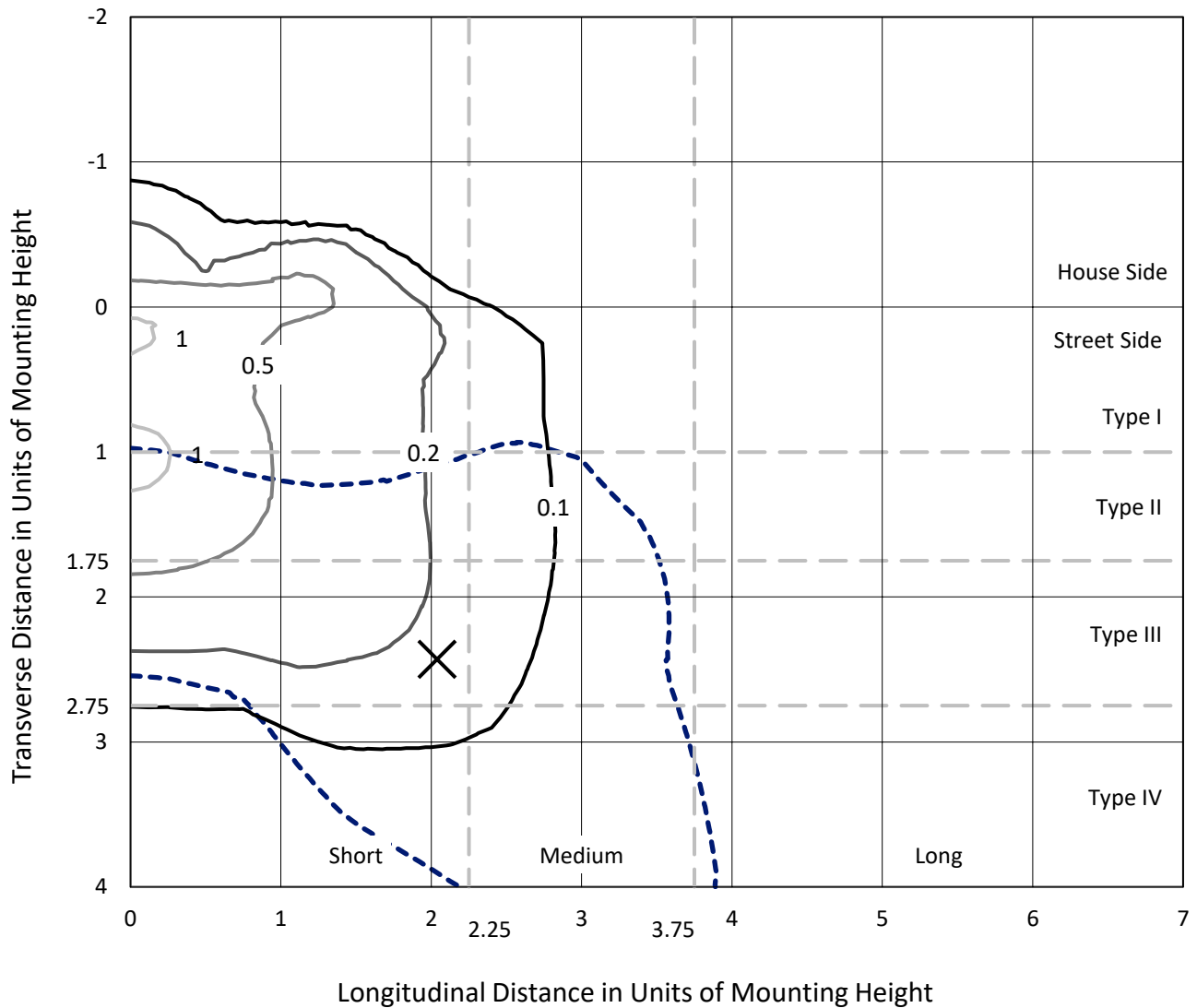
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

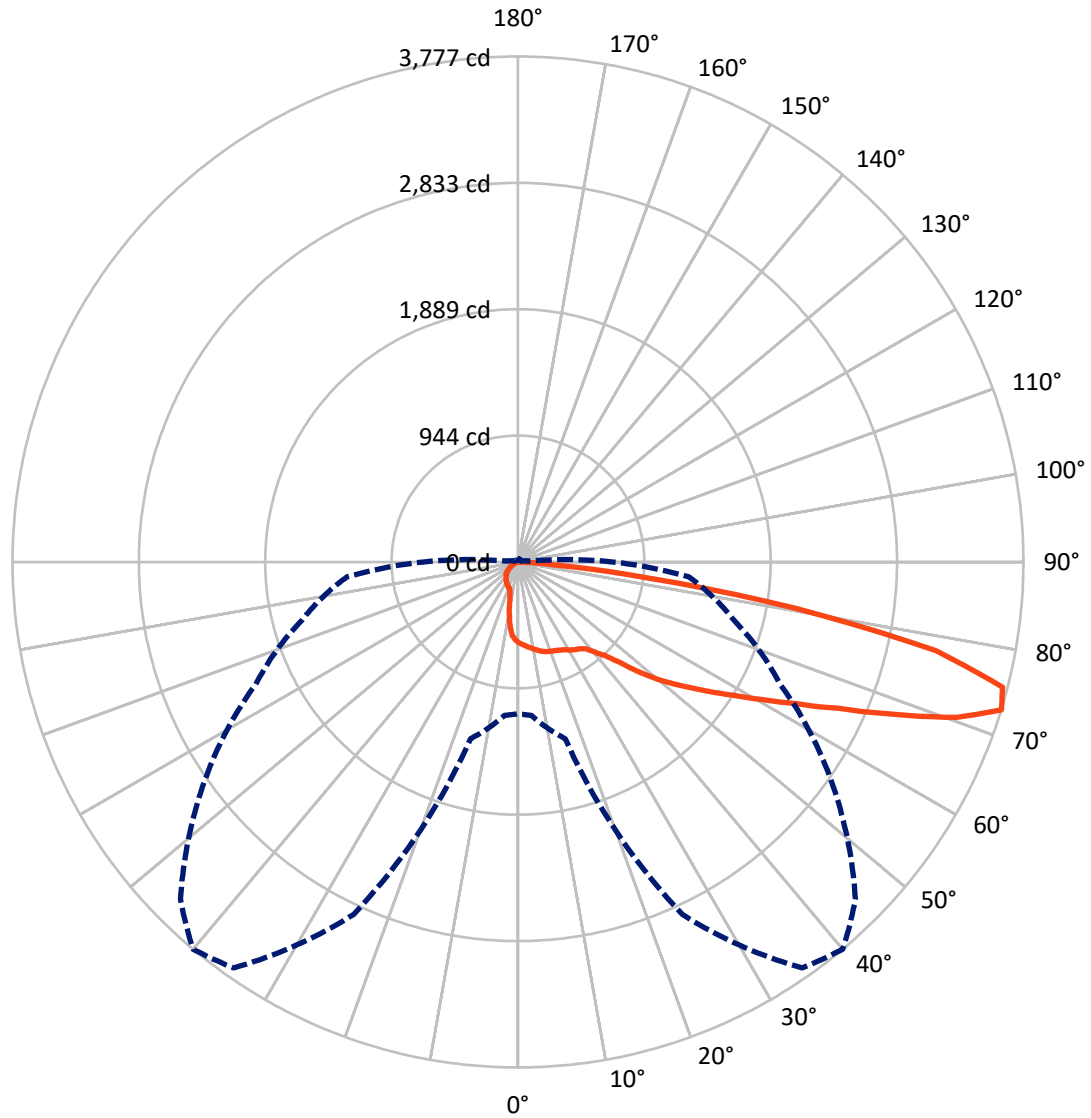
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.2	0.0	587.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3959.8	0.0	3959.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	4547.0	0.0	4547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.2
10°-20°	149.3	3.3
20°-30°	241.6	5.3
30°-40°	356.7	7.8
40°-50°	600.3	13.2
50°-60°	932.2	20.5
60°-70°	1166.4	25.7
70°-80°	954.9	21.0
80°-90°	90.5	2.0
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°	4547.0	100.0
0°-180°	4547.0	100.0

Coefficient of Utilization



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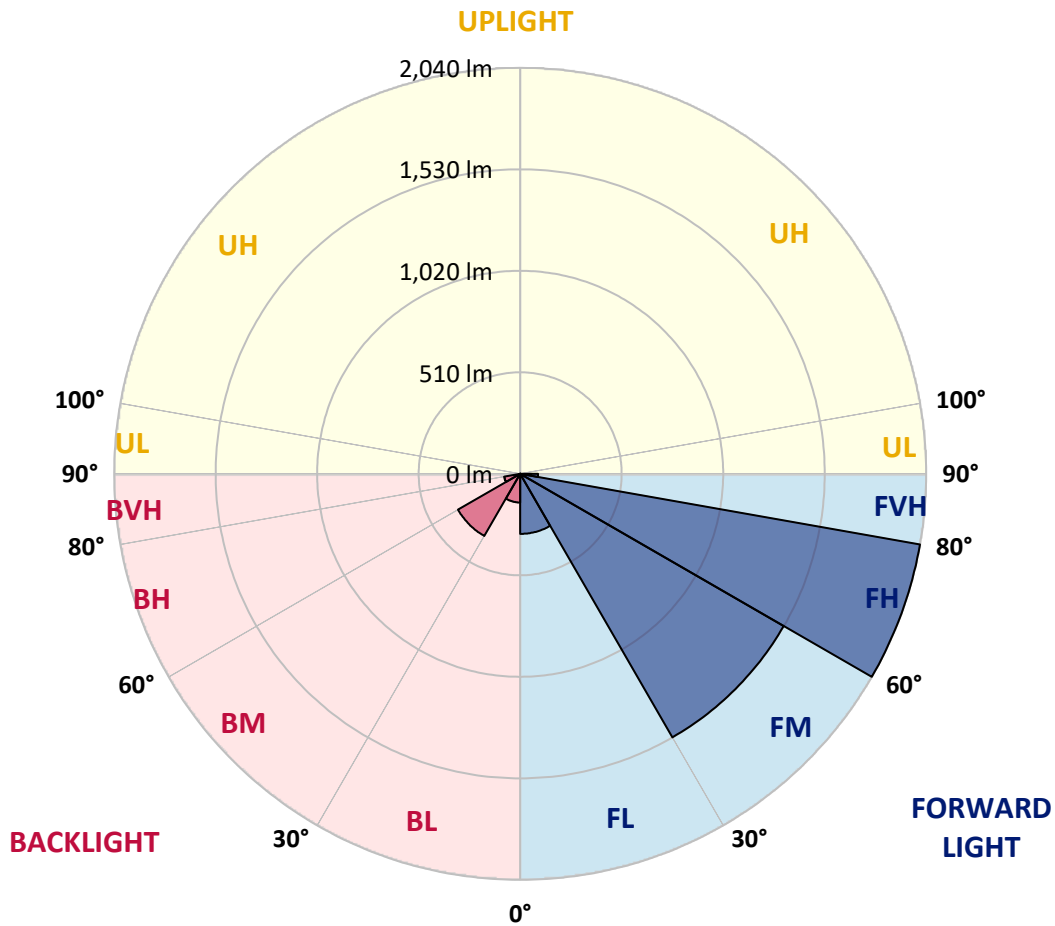
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.8	6.6			
FM (30°-60°)	1528.6	33.6			
FH (60°-80°)	2039.5	44.9			G2/5000
FVH (80°-90°)	89.9	2.0			G1/100
BL (0°-30°)	144.1	3.2	B1/500		
BM (30°-60°)	360.6	7.9	B1/1000		
BH (60°-80°)	81.8	1.8	B0/110		G0/110
BVH (80°-90°)	0.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1
2.5°	620.2	622.6	621.2	618.5	617.8	616.4	614.7	614.0	611.6	609.6
5°	637.7	640.1	638.4	634.6	632.9	631.2	628.8	626.7	621.9	617.5
7.5°	656.9	658.9	656.9	651.4	648.6	646.6	643.2	640.1	634.6	628.1
10°	678.1	679.8	676.7	669.5	665.1	662.0	658.9	655.5	650.3	643.2
12.5°	698.0	700.0	695.2	686.6	681.5	678.4	675.0	672.3	667.1	660.3
15°	716.1	719.2	711.0	701.7	695.9	693.5	690.1	688.4	684.9	680.1
17.5°	729.8	731.9	723.3	712.3	705.8	704.1	701.7	702.7	702.1	699.7
20°	741.4	742.8	731.5	718.2	711.0	711.3	710.6	714.0	715.4	715.4
22.5°	755.8	756.2	741.8	725.0	716.4	718.8	719.9	723.6	726.4	729.1
25°	774.7	774.0	756.9	733.9	726.4	729.8	732.2	733.6	736.6	741.1
27.5°	802.7	800.7	778.8	748.3	739.4	742.5	746.9	746.2	744.9	748.3
30°	838.4	835.6	806.5	768.5	760.3	763.0	764.4	758.2	748.3	751.4
32.5°	894.9	890.1	849.7	791.1	778.4	781.5	779.8	767.1	752.4	755.5
35°	993.2	981.5	924.3	838.4	799.0	795.6	791.4	779.1	761.0	757.9
37.5°	1202.1	1181.5	1083.9	930.5	845.6	823.3	810.6	798.3	770.2	757.9
40°	1437.7	1416.8	1304.1	1084.6	923.0	885.3	855.1	820.9	779.8	762.3
42.5°	1683.6	1660.6	1544.9	1275.7	1033.6	956.2	900.0	839.0	795.6	776.0
45°	1958.2	1929.5	1778.1	1475.0	1194.2	1074.0	972.3	876.4	823.0	800.3
47.5°	2248.0	2210.6	2010.6	1668.5	1367.1	1237.0	1104.5	943.2	863.4	836.7
50°	2504.8	2467.8	2250.7	1870.9	1528.8	1392.1	1255.1	1035.6	924.0	888.0
52.5°	2689.4	2661.3	2469.2	2079.8	1696.9	1537.7	1391.8	1143.2	1000.7	953.8
55°	2813.0	2787.4	2624.0	2277.8	1892.5	1698.0	1526.4	1259.9	1093.2	1032.5
57.5°	2888.0	2873.3	2736.0	2454.5	2086.3	1873.3	1680.5	1388.4	1202.1	1125.4
60°	2914.7	2902.8	2805.5	2623.0	2320.6	2083.9	1861.7	1533.2	1334.3	1230.8
62.5°	2843.5	2845.9	2855.5	2822.6	2567.5	2330.5	2078.8	1707.2	1480.8	1350.4
65°	2508.2	2528.1	2710.3	3043.9	2894.5	2639.4	2355.2	1919.5	1648.6	1486.3
67.5°	2076.7	2105.5	2332.2	3173.3	3243.2	3040.4	2740.1	2190.1	1848.6	1624.7
70°	1589.7	1620.6	1895.2	3146.3	3569.5	3478.8	3216.1	2534.3	2055.8	1720.6
72.5°	1134.6	1150.4	1366.8	2905.5	3703.5	3777.4	3566.8	2860.3	2161.7	1667.5
75°	797.3	794.5	938.0	2339.7	3494.9	3741.1	3443.9	2683.9	1956.2	1324.7
77.5°	347.3	347.9	468.5	1420.9	2789.4	3195.2	2862.7	1681.2	1363.7	702.1
80°	90.1	92.8	171.9	565.8	1679.5	2108.9	1745.9	739.0	630.1	171.2
82.5°	31.8	33.9	79.1	177.7	619.5	967.1	777.4	236.3	164.4	49.0
85°	9.2	11.0	42.5	54.5	128.1	273.3	188.7	45.9	40.4	25.3
87.5°	0.0	1.4	8.6	7.5	7.5	5.1	9.6	5.1	6.5	3.1
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°
602.1	0°	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1
607.2	2.5°	605.1	602.7	597.6	592.1	587.0	582.2	580.8	575.7	573.3	573.6
612.0	5°	608.2	603.8	593.8	581.9	569.5	555.5	543.8	527.4	513.4	511.6
621.2	7.5°	616.4	609.3	593.2	569.9	539.0	500.3	464.4	428.8	408.6	397.6
634.9	10°	629.1	619.5	594.9	550.3	484.9	415.8	361.3	316.4	293.5	282.9
651.7	12.5°	644.2	633.6	597.6	517.1	415.1	324.3	265.4	238.0	233.2	232.5
672.3	15°	665.4	653.8	600.7	472.3	339.4	246.9	219.9	220.2	224.0	226.0
694.5	17.5°	689.0	677.4	596.2	417.5	264.7	211.0	210.3	213.4	218.8	220.9
715.1	20°	713.0	702.1	580.5	353.1	214.0	201.0	203.8	207.2	212.7	215.4
735.3	22.5°	737.7	728.1	555.5	284.6	193.2	193.8	197.3	200.7	206.9	209.9
755.1	25°	764.0	755.8	522.3	228.1	184.2	186.3	190.8	194.9	201.4	205.1
771.9	27.5°	790.8	784.6	484.6	190.4	176.0	178.4	183.6	189.0	195.5	200.0
786.7	30°	819.9	816.4	454.5	176.4	168.2	170.2	176.0	182.2	189.4	194.9
801.4	32.5°	849.7	849.0	439.7	186.6	161.0	162.3	167.5	173.6	182.5	189.4
813.7	35°	879.1	880.5	431.2	215.8	158.6	154.8	158.2	163.7	174.3	182.9
827.7	37.5°	916.8	920.2	430.8	247.3	164.4	147.3	149.7	153.4	162.7	172.6
849.7	40°	973.0	991.1	452.7	274.3	174.7	140.4	141.1	141.8	146.6	154.8
878.8	42.5°	1047.6	1100.7	531.9	292.8	178.8	134.2	131.9	128.1	127.4	131.9
918.5	45°	1140.4	1233.2	670.9	303.1	174.7	127.4	120.9	111.0	107.2	110.3
972.3	47.5°	1249.7	1378.4	835.6	305.5	167.8	118.8	107.2	94.2	91.1	92.1
1044.5	50°	1356.2	1487.3	980.5	285.6	156.5	107.9	92.1	81.2	79.1	79.5
1129.8	52.5°	1450.4	1524.7	1021.6	238.7	141.4	94.5	79.1	71.6	70.2	70.2
1224.0	55°	1512.7	1484.3	911.0	182.5	122.6	80.8	67.8	64.0	63.4	63.0
1329.1	57.5°	1525.7	1352.8	688.0	131.9	95.9	68.2	60.3	58.2	56.8	55.5
1437.0	60°	1479.1	1133.6	438.0	92.1	71.9	58.2	53.4	52.1	49.3	46.6
1538.4	62.5°	1378.4	856.2	242.5	64.0	57.9	49.7	47.3	45.5	40.4	36.0
1618.8	65°	1243.2	569.2	107.2	50.0	47.3	41.8	40.4	38.0	31.8	26.7
1649.3	67.5°	1107.2	327.7	48.3	40.1	38.0	34.2	33.2	31.5	27.1	22.3
1571.6	70°	952.1	166.1	33.2	31.8	29.5	26.0	27.1	26.7	22.3	18.2
1281.9	72.5°	708.9	82.5	25.0	24.0	21.2	18.5	22.3	21.9	17.5	13.7
790.4	75°	401.4	40.8	18.2	16.8	12.7	13.7	17.8	16.8	12.0	8.9
333.6	77.5°	159.2	20.9	12.0	10.3	7.5	9.2	13.0	11.3	6.2	3.8
63.7	80°	36.6	10.3	6.2	4.5	3.4	5.5	6.8	4.1	1.7	0.3
17.1	82.5°	10.3	4.5	2.1	1.7	1.7	2.1	1.7	0.7	0.0	0.0
4.5	85°	3.4	2.1	0.7	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.4	87.5°	1.4	0.7	0.0	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>
602.1
573.3
510.6
396.9
280.8
232.2
225.7
220.5
215.4
209.9
205.1
200.3
195.5
190.1
184.2
174.3
157.5
134.2
110.3
91.8
79.5
69.9
62.3
54.8
45.5
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