

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: P939476

Luminaire Tested: **GALN-SB2A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939476
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-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 6322 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

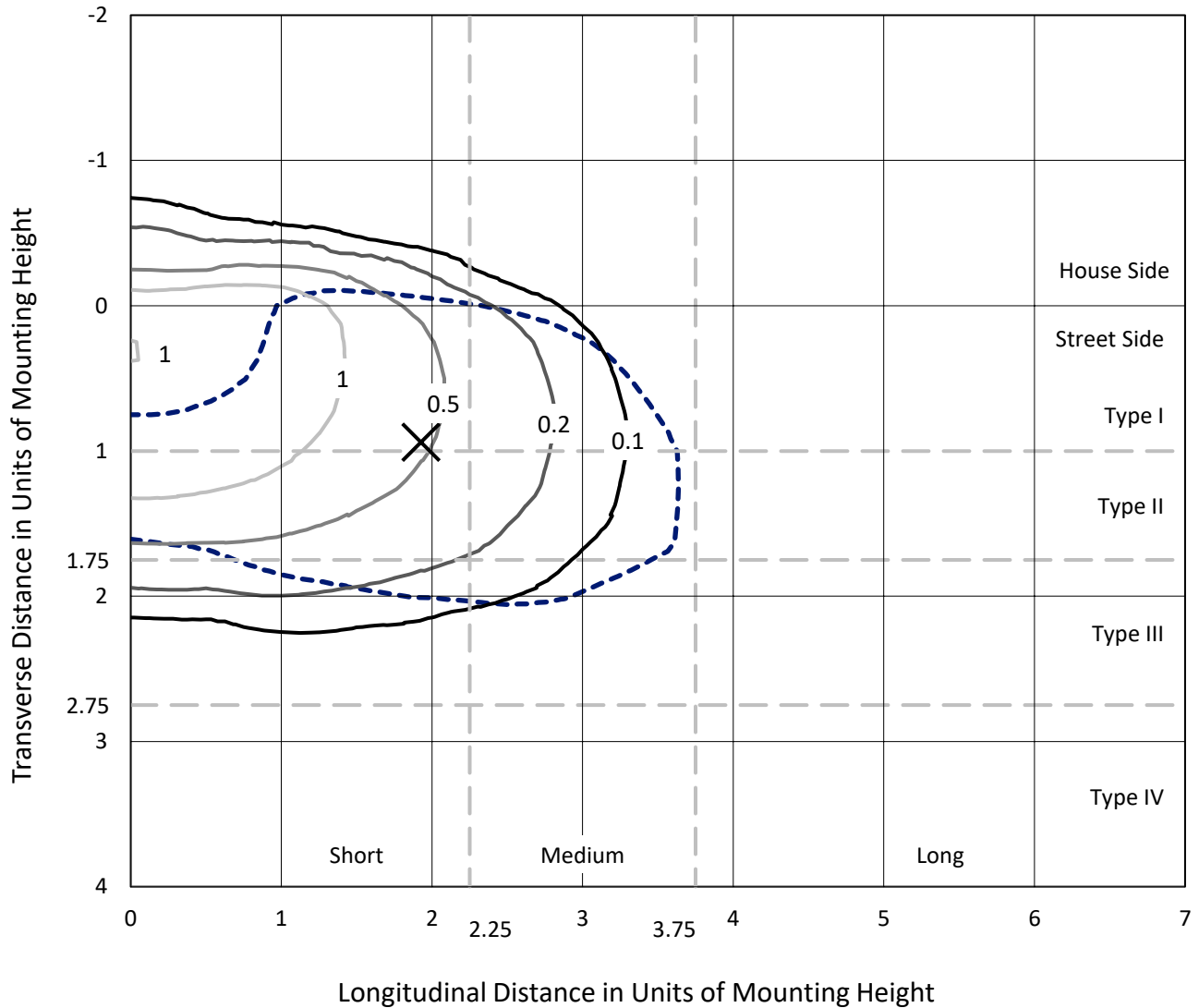
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

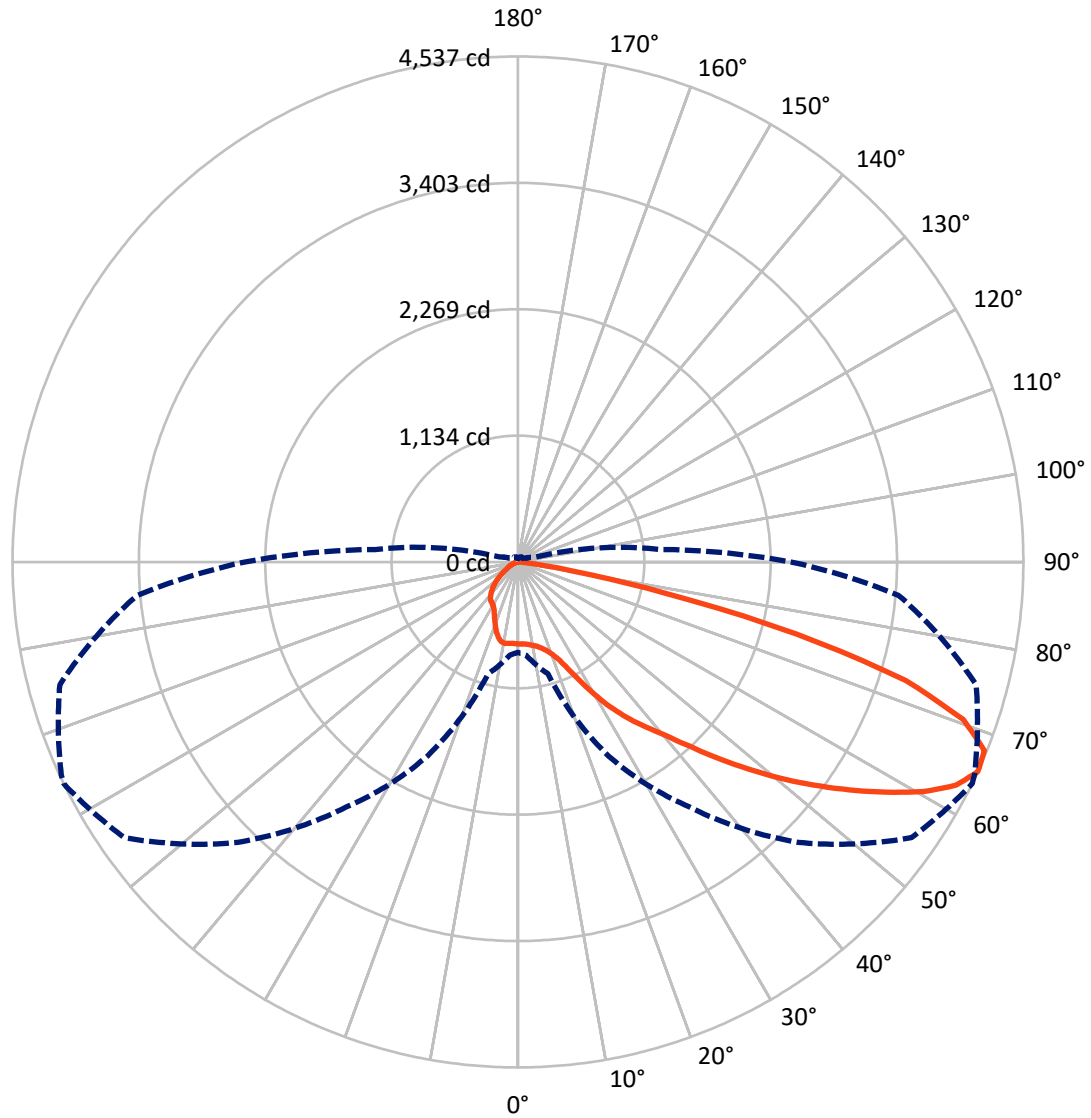
✕ Max cd
 - - - 1/2 Max cd



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	845.4	0.0	845.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5476.5	0.0	5476.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	6322.0	0.0	6322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.1
10°-20°	184.0	2.9
20°-30°	348.7	5.5
30°-40°	705.5	11.2
40°-50°	1201.9	19.0
50°-60°	1634.5	25.9
60°-70°	1534.9	24.3
70°-80°	614.9	9.7
80°-90°	29.8	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°	6322.0	100.0
0°-180°	6322.0	100.0

Coefficient of Utilization



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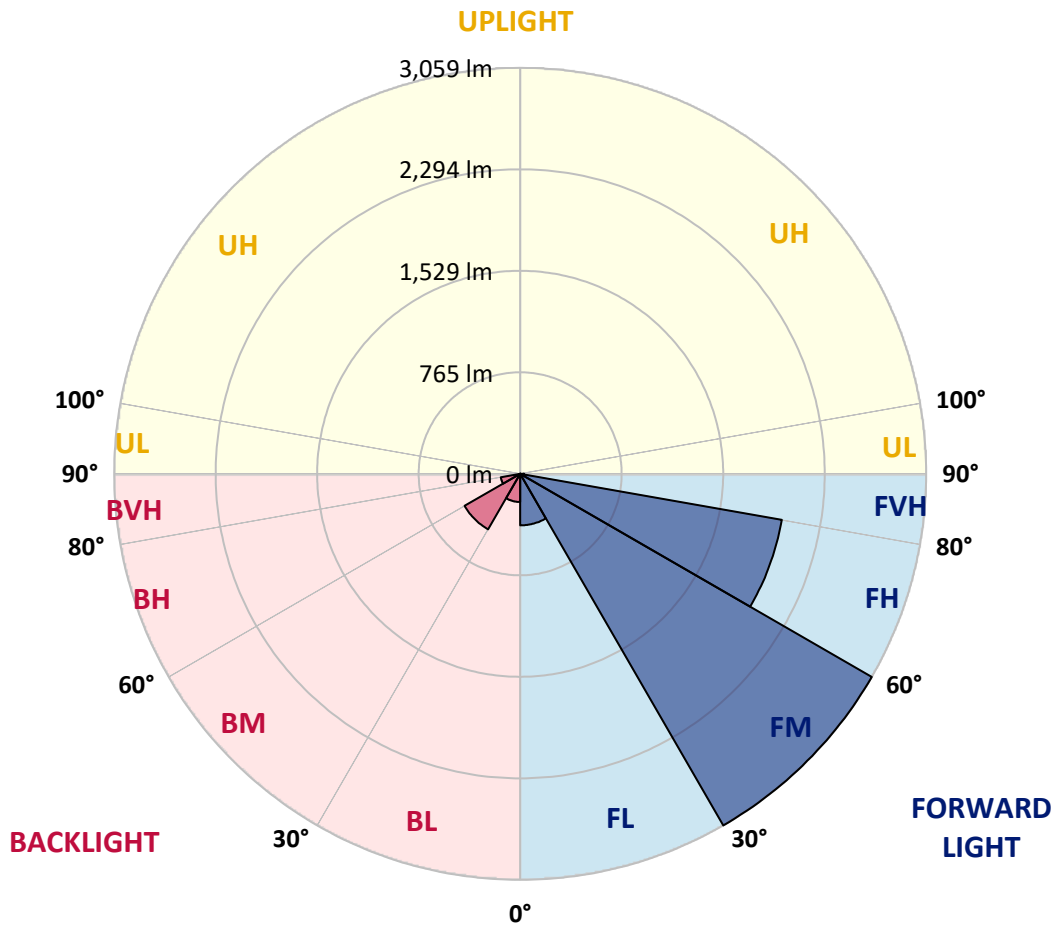
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.2	6.1			
FM (30°-60°)	3058.6	48.4			
FH (60°-80°)	2001.4	31.7			G2/5000
FVH (80°-90°)	28.3	0.4			G1/100
BL (0°-30°)	212.3	3.4	B1/500		
BM (30°-60°)	483.3	7.6	B1/1000		
BH (60°-80°)	148.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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°	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3
2.5°	732.8	737.9	736.6	735.3	734.9	735.7	736.2	735.7	735.7	735.7
5°	718.8	723.0	723.0	726.0	730.2	735.3	739.1	740.0	740.8	742.1
7.5°	692.1	695.5	698.0	707.8	718.4	731.9	743.4	749.3	750.1	754.8
10°	673.9	678.1	682.3	692.5	707.8	728.1	747.6	762.0	764.1	775.2
12.5°	673.0	677.3	682.8	693.8	711.6	733.2	756.9	777.7	781.5	797.6
15°	681.9	687.0	692.1	705.6	724.7	751.0	776.4	802.3	806.1	829.0
17.5°	700.1	706.9	710.7	724.3	744.6	773.9	807.4	837.0	840.4	867.1
20°	736.2	744.2	745.5	756.5	776.4	807.8	847.6	884.5	888.7	919.2
22.5°	810.8	822.2	812.0	817.5	835.3	866.7	909.9	956.5	962.5	997.2
25°	942.1	958.2	932.0	922.6	930.3	962.9	1017.1	1076.1	1082.8	1110.8
27.5°	1200.2	1179.5	1139.6	1100.6	1077.8	1096.4	1157.4	1230.3	1238.8	1265.9
30°	1483.8	1465.5	1411.7	1325.3	1271.0	1268.0	1324.4	1405.8	1415.5	1441.4
32.5°	1767.7	1750.3	1691.9	1585.5	1491.4	1444.8	1483.8	1574.0	1579.1	1595.7
35°	2047.0	2029.2	1970.7	1861.8	1746.1	1640.2	1632.5	1734.2	1735.9	1753.3
37.5°	2328.0	2313.2	2250.9	2144.1	2030.1	1883.8	1813.1	1886.0	1888.1	1905.0
40°	2528.5	2534.8	2492.0	2409.4	2311.5	2151.7	2015.7	2047.4	2034.7	2063.1
42.5°	2700.5	2713.2	2676.0	2634.4	2577.6	2436.9	2266.5	2261.0	2240.7	2256.0
45°	2849.3	2859.9	2826.4	2816.7	2815.4	2716.6	2540.8	2507.7	2479.3	2476.3
47.5°	2904.0	2924.3	2938.7	2971.3	3034.9	2993.4	2824.3	2773.0	2741.2	2717.9
50°	2924.7	2946.3	2995.5	3090.4	3240.9	3258.7	3106.5	3048.9	3009.9	2967.5
52.5°	2896.8	2935.3	3001.4	3161.2	3379.5	3471.4	3377.4	3326.9	3282.4	3213.3
55°	2731.9	2770.5	2905.7	3160.4	3448.6	3620.6	3633.3	3610.9	3560.9	3452.0
57.5°	2384.4	2441.6	2655.6	3052.7	3447.3	3749.0	3884.2	3900.3	3844.4	3688.4
60°	1902.9	1980.5	2241.5	2814.1	3340.9	3818.5	4104.2	4184.7	4125.4	3921.5
62.5°	1327.8	1417.7	1664.7	2440.3	3097.6	3768.5	4264.8	4413.6	4368.7	4130.1
65°	809.9	838.7	1037.9	1920.3	2684.0	3559.2	4314.4	4537.3	4522.5	4257.6
67.5°	539.5	563.7	620.9	1316.8	2083.5	3140.9	4195.7	4515.7	4520.0	4236.9
70°	325.1	345.8	383.1	765.8	1350.3	2486.1	3828.3	4240.2	4264.8	3959.3
72.5°	133.9	147.9	181.8	347.1	699.3	1577.9	3048.5	3640.5	3697.8	3329.0
75°	75.9	83.1	106.8	174.2	303.4	735.3	1846.5	2584.4	2668.7	2294.5
77.5°	50.4	53.8	69.1	112.7	170.8	250.9	789.1	1346.5	1507.5	1253.2
80°	33.9	36.9	47.5	75.4	111.0	107.6	251.3	498.8	613.7	430.6
82.5°	22.9	23.3	33.9	49.6	70.4	52.1	74.2	155.1	195.0	124.6
85°	13.1	12.7	25.0	28.8	31.4	21.6	22.5	46.6	61.0	52.6
87.5°	1.7	2.5	9.7	7.6	4.2	4.7	4.7	8.1	11.9	12.7
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°
735.3	0°	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3
736.2	2.5°	736.2	735.7	734.5	733.2	730.2	728.5	729.4	728.5	728.1	728.5
741.7	5°	741.7	740.4	737.0	732.8	726.8	719.6	715.0	708.2	701.8	698.0
756.5	7.5°	756.5	755.2	750.6	738.7	719.6	689.5	662.0	637.8	619.6	609.0
780.2	10°	780.2	778.1	770.9	744.6	694.6	628.9	574.3	528.9	499.3	485.3
808.2	12.5°	808.2	805.7	793.0	739.1	647.2	544.6	469.2	418.7	391.2	378.9
840.4	15°	841.3	837.9	812.9	712.9	578.1	451.4	382.3	344.6	326.8	315.7
881.5	17.5°	882.4	876.4	827.7	673.4	503.1	380.2	328.9	300.5	284.8	274.2
935.4	20°	935.8	926.0	839.6	626.4	434.0	335.2	292.9	269.1	257.3	247.9
1011.6	22.5°	1010.4	996.4	854.0	575.5	385.2	304.3	266.2	248.8	239.0	228.4
1118.0	25°	1102.8	1086.2	871.8	528.5	351.8	277.6	246.7	232.2	220.8	208.5
1257.5	27.5°	1232.0	1202.4	893.0	489.9	322.9	254.7	228.9	212.8	199.6	189.4
1415.5	30°	1376.1	1327.4	911.6	466.6	296.7	233.5	205.5	189.4	177.2	169.9
1557.5	32.5°	1512.6	1446.5	923.9	456.4	272.9	209.4	180.1	162.7	153.4	151.3
1696.5	35°	1641.4	1554.1	922.6	446.7	251.7	185.2	155.1	137.3	130.1	131.4
1846.1	37.5°	1789.8	1669.0	913.7	431.4	234.4	163.2	133.5	117.8	111.5	111.9
2027.9	40°	1962.3	1801.6	908.2	402.6	215.3	142.8	115.7	103.0	98.3	96.6
2219.5	42.5°	2146.2	1930.0	909.1	370.0	191.6	124.6	103.4	92.8	88.6	87.3
2432.7	45°	2331.0	2052.5	910.3	336.1	166.6	110.6	94.5	85.6	83.1	81.4
2648.8	47.5°	2504.7	2156.8	886.6	299.6	142.0	100.0	87.3	81.4	79.3	77.1
2865.8	50°	2666.6	2226.3	829.4	257.3	122.5	91.5	81.8	77.6	75.4	73.3
3062.5	52.5°	2792.5	2237.3	734.9	213.6	108.9	85.2	78.4	74.6	72.0	69.9
3221.4	55°	2848.4	2168.2	600.5	172.9	98.3	79.7	75.0	71.2	68.2	66.1
3346.4	57.5°	2834.0	2022.9	468.3	139.0	88.2	74.2	70.8	68.2	64.8	61.5
3447.7	60°	2763.3	1828.3	353.0	115.7	78.8	68.2	66.1	64.0	59.3	54.2
3486.7	62.5°	2640.8	1583.8	251.7	95.8	68.7	61.5	60.6	58.9	52.1	42.8
3429.1	65°	2453.4	1286.7	169.5	79.7	58.9	53.8	54.2	51.3	42.4	31.8
3218.0	67.5°	2179.7	940.9	108.5	65.3	49.2	44.9	45.3	43.7	36.0	27.1
2817.9	70°	1830.9	623.0	70.8	49.6	39.4	34.8	37.3	37.7	30.5	22.0
2162.7	72.5°	1342.2	367.9	49.6	36.9	28.8	24.2	30.5	31.4	24.6	16.5
1301.1	75°	765.0	174.6	37.3	26.7	17.8	17.0	23.7	23.7	17.0	11.0
563.2	77.5°	321.2	72.9	26.3	17.4	10.2	9.7	16.1	14.8	8.5	5.1
137.3	80°	92.8	32.6	14.0	8.5	4.2	3.8	6.4	4.7	2.1	0.8
52.1	82.5°	36.4	14.4	5.5	3.4	1.7	1.7	0.8	0.0	0.0	0.0
29.7	85°	21.6	5.9	2.5	1.3	0.4	0.0	0.0	0.0	0.0	0.0
6.4	87.5°	5.5	1.3	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>
735.3
730.2
698.9
609.4
484.0
377.6
316.2
273.4
246.2
226.7
207.2
187.3
168.7
152.6
131.4
113.6
96.2
86.9
81.4
77.1
73.3
69.5
65.7
61.0
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42.0
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