

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: P939306

Luminaire Tested: **GALN-SB1D-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939306
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-SB1D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7174 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

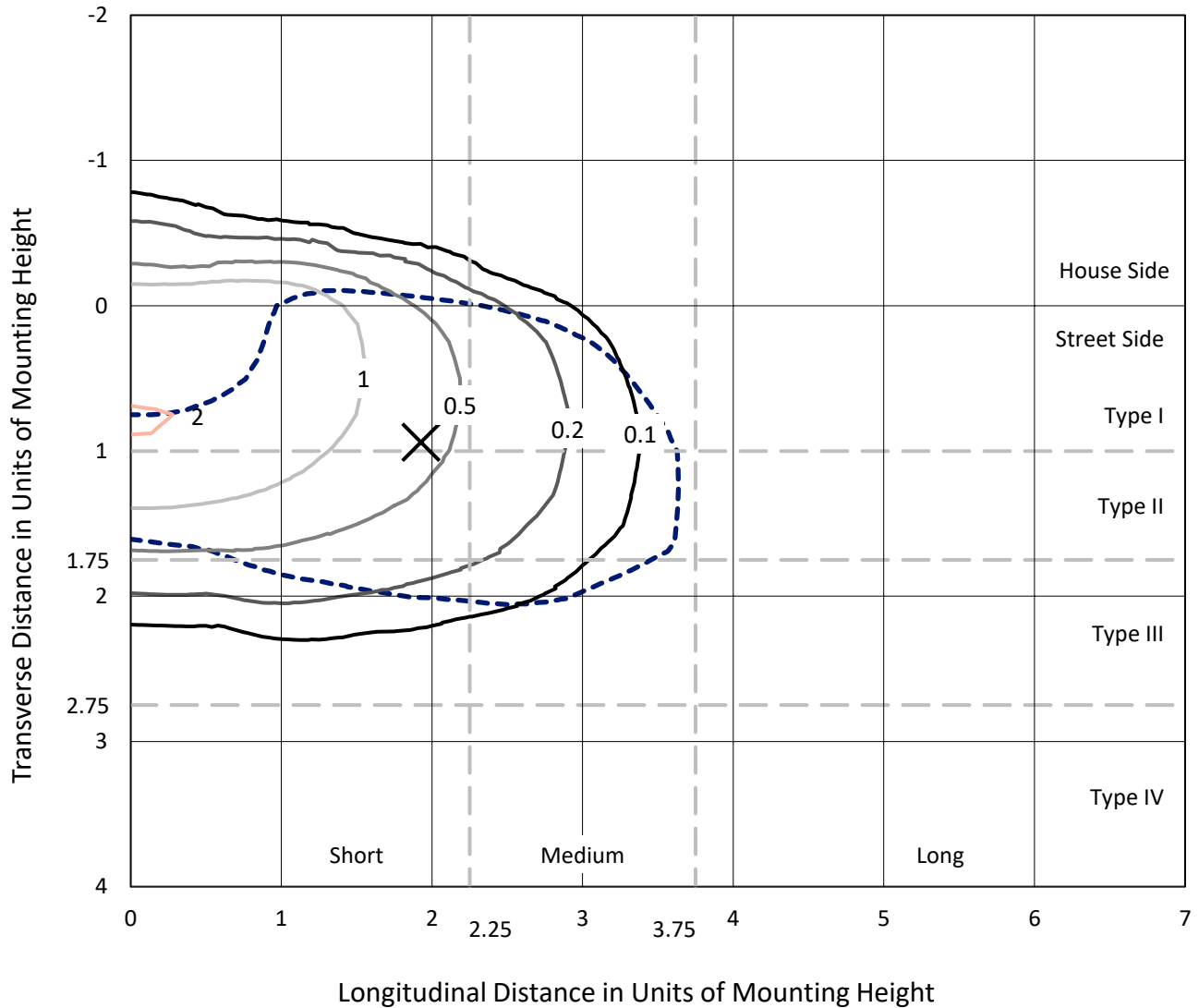
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

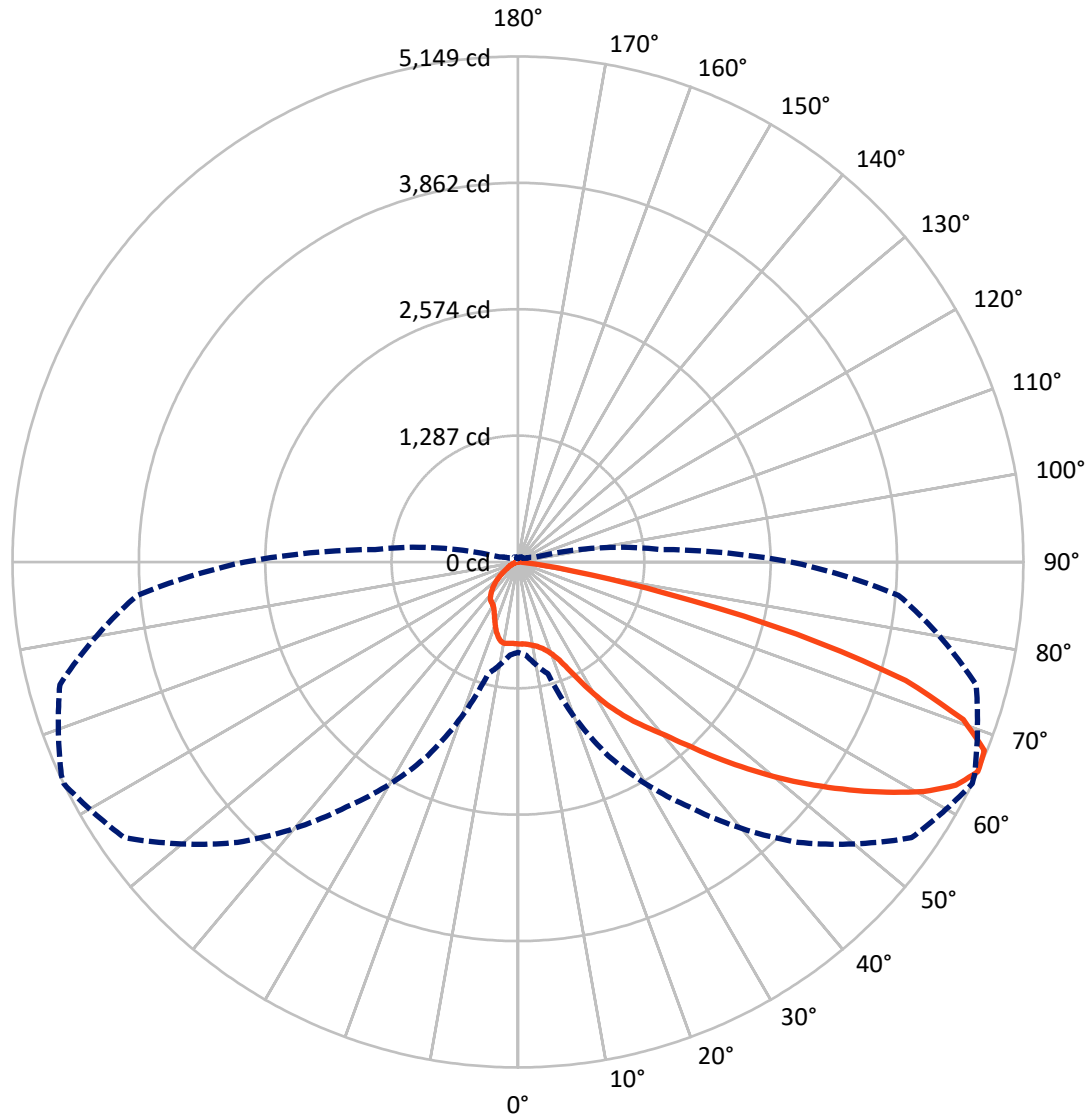
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	959.4	0.0	959.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6214.6	0.0	6214.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	7174.0	0.0	7174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.1
10°-20°	208.8	2.9
20°-30°	395.7	5.5
30°-40°	800.6	11.2
40°-50°	1363.9	19.0
50°-60°	1854.8	25.9
60°-70°	1741.7	24.3
70°-80°	697.8	9.7
80°-90°	33.8	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°	7174.0	100.0
0°-180°	7174.0	100.0

Coefficient of Utilization



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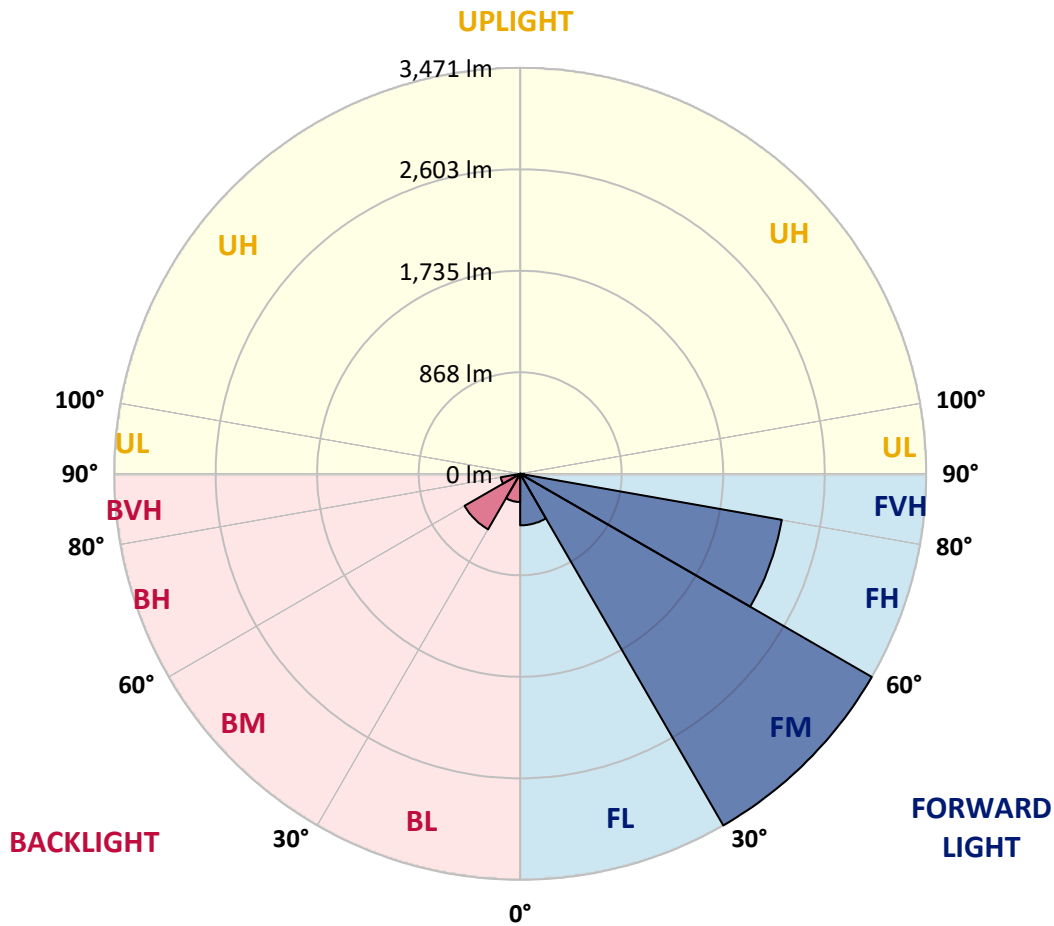
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.6	6.1			
FM (30°-60°)	3470.8	48.4			
FH (60°-80°)	2271.1	31.7			G2/5000
FVH (80°-90°)	32.2	0.4			G1/100
BL (0°-30°)	240.9	3.4	B1/500		
BM (30°-60°)	548.5	7.6	B1/1000		
BH (60°-80°)	168.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4
2.5°	831.5	837.3	835.9	834.4	833.9	834.9	835.4	834.9	834.9	834.9
5°	815.7	820.5	820.5	823.8	828.6	834.4	838.7	839.7	840.7	842.1
7.5°	785.4	789.2	792.1	803.2	815.2	830.6	843.5	850.3	851.2	856.5
10°	764.7	769.5	774.3	785.8	803.2	826.2	848.4	864.7	867.1	879.6
12.5°	763.7	768.5	774.8	787.3	807.5	832.0	858.9	882.5	886.8	905.1
15°	773.8	779.6	785.4	800.7	822.4	852.2	881.1	910.4	914.7	940.7
17.5°	794.5	802.2	806.5	821.9	845.0	878.2	916.2	949.8	953.7	984.0
20°	835.4	844.5	846.0	858.5	881.1	916.6	961.9	1003.7	1008.5	1043.1
22.5°	920.0	933.0	921.5	927.7	947.9	983.5	1032.6	1085.5	1092.2	1131.6
25°	1069.1	1087.4	1057.6	1047.0	1055.6	1092.7	1154.2	1221.1	1228.8	1260.5
27.5°	1362.0	1338.4	1293.2	1249.0	1223.0	1244.2	1313.4	1396.1	1405.8	1436.5
30°	1683.7	1663.1	1602.0	1503.9	1442.3	1438.9	1502.9	1595.2	1606.3	1635.6
32.5°	2006.0	1986.2	1919.9	1799.2	1692.4	1639.5	1683.7	1786.2	1791.9	1810.7
35°	2322.9	2302.7	2236.3	2112.7	1981.4	1861.2	1852.5	1968.0	1969.9	1989.6
37.5°	2641.7	2624.9	2554.2	2433.0	2303.6	2137.7	2057.4	2140.1	2142.5	2161.8
40°	2869.2	2876.4	2827.9	2734.1	2623.0	2441.7	2287.3	2323.4	2308.9	2341.2
42.5°	3064.5	3078.9	3036.6	2989.5	2925.0	2765.3	2572.0	2565.8	2542.7	2560.0
45°	3233.3	3245.3	3207.3	3196.2	3194.8	3082.8	2883.2	2845.7	2813.4	2810.1
47.5°	3295.3	3318.4	3334.8	3371.8	3443.9	3396.8	3204.9	3146.7	3110.6	3084.2
50°	3318.9	3343.4	3399.2	3506.9	3677.7	3697.9	3525.2	3459.8	3415.6	3367.5
52.5°	3287.1	3330.9	3405.9	3587.2	3834.9	3939.3	3832.5	3775.3	3724.8	3646.4
55°	3100.1	3143.8	3297.2	3586.3	3913.3	4108.6	4123.0	4097.5	4040.8	3917.2
57.5°	2705.7	2770.6	3013.5	3464.1	3911.9	4254.3	4407.7	4426.0	4362.5	4185.5
60°	2159.4	2247.4	2543.6	3193.4	3791.2	4333.2	4657.3	4748.7	4681.4	4450.0
62.5°	1506.7	1608.7	1889.1	2769.2	3515.1	4276.4	4839.6	5008.4	4957.4	4686.6
65°	919.1	951.8	1177.8	2179.1	3045.7	4038.8	4895.9	5148.8	5132.0	4831.4
67.5°	612.2	639.6	704.6	1494.2	2364.2	3564.2	4761.2	5124.3	5129.1	4807.8
70°	368.9	392.4	434.8	869.0	1532.2	2821.1	4344.2	4811.7	4839.6	4492.8
72.5°	152.0	167.8	206.3	393.9	793.5	1790.5	3459.3	4131.2	4196.1	3777.7
75°	86.1	94.3	121.2	197.7	344.3	834.4	2095.4	2932.7	3028.4	2603.7
77.5°	57.2	61.1	78.4	127.9	193.8	284.7	895.5	1527.9	1710.7	1422.1
80°	38.5	41.8	53.9	85.6	126.0	122.2	285.2	566.1	696.4	488.6
82.5°	26.0	26.5	38.5	56.3	79.8	59.2	84.2	176.0	221.2	141.4
85°	14.9	14.4	28.4	32.7	35.6	24.5	25.5	52.9	69.3	59.6
87.5°	1.9	2.9	11.1	8.7	4.8	5.3	5.3	9.1	13.5	14.4
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°
834.4	0°	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4
835.4	2.5°	835.4	834.9	833.4	832.0	828.6	826.7	827.7	826.7	826.2	826.7
841.6	5°	841.6	840.2	836.3	831.5	824.8	816.6	811.3	803.6	796.4	792.1
858.5	7.5°	858.5	857.0	851.7	838.3	816.6	782.5	751.2	723.8	703.1	691.1
885.4	10°	885.4	883.0	874.8	845.0	788.2	713.7	651.7	600.2	566.5	550.7
917.1	12.5°	917.1	914.2	899.8	838.7	734.4	618.0	532.4	475.2	443.9	429.9
953.7	15°	954.6	950.8	922.4	808.9	656.0	512.2	433.8	391.0	370.8	358.3
1000.3	17.5°	1001.3	994.6	939.3	764.2	570.9	431.4	373.2	341.0	323.2	311.2
1061.4	20°	1061.9	1050.8	952.7	710.8	492.5	380.4	332.3	305.4	291.9	281.3
1148.0	22.5°	1146.5	1130.7	969.1	653.1	437.2	345.3	302.0	282.3	271.2	259.2
1268.7	25°	1251.4	1232.6	989.3	599.7	399.2	315.0	279.9	263.5	250.6	236.6
1426.9	27.5°	1398.1	1364.4	1013.3	556.0	366.5	289.0	259.7	241.4	226.5	215.0
1606.3	30°	1561.6	1506.3	1034.5	529.5	336.6	265.0	233.3	215.0	201.0	192.9
1767.4	32.5°	1716.4	1641.4	1048.4	518.0	309.7	237.6	204.4	184.7	174.1	171.7
1925.2	35°	1862.6	1763.6	1047.0	506.9	285.7	210.2	176.0	155.8	147.6	149.1
2094.9	37.5°	2031.0	1893.9	1036.9	489.6	266.0	185.2	151.5	133.7	126.5	127.0
2301.2	40°	2226.7	2044.4	1030.6	456.9	244.3	162.1	131.3	116.9	111.6	109.7
2518.6	42.5°	2435.4	2190.1	1031.6	419.9	217.4	141.4	117.3	105.3	100.5	99.1
2760.5	45°	2645.1	2329.1	1033.0	381.4	189.0	125.5	107.2	97.1	94.3	92.3
3005.8	47.5°	2842.3	2447.4	1006.1	340.0	161.1	113.5	99.1	92.3	89.9	87.5
3252.0	50°	3026.0	2526.3	941.2	291.9	139.0	103.9	92.8	88.0	85.6	83.2
3475.2	52.5°	3168.8	2538.8	833.9	242.4	123.6	96.7	89.0	84.6	81.8	79.4
3655.5	55°	3232.3	2460.4	681.5	196.2	111.6	90.4	85.1	80.8	77.4	75.0
3797.4	57.5°	3216.0	2295.5	531.4	157.7	100.0	84.2	80.3	77.4	73.6	69.7
3912.4	60°	3135.7	2074.7	400.6	131.3	89.5	77.4	75.0	72.6	67.3	61.6
3956.6	62.5°	2996.7	1797.2	285.7	108.7	77.9	69.7	68.8	66.8	59.2	48.6
3891.2	65°	2784.1	1460.1	192.4	90.4	66.8	61.1	61.6	58.2	48.1	36.1
3651.7	67.5°	2473.4	1067.7	123.1	74.1	55.8	51.0	51.5	49.5	40.9	30.8
3197.7	70°	2077.6	707.0	80.3	56.3	44.7	39.4	42.3	42.8	34.6	25.0
2454.2	72.5°	1523.1	417.4	56.3	41.8	32.7	27.4	34.6	35.6	27.9	18.8
1476.5	75°	868.1	198.1	42.3	30.3	20.2	19.2	26.9	26.9	19.2	12.5
639.2	77.5°	364.5	82.7	29.8	19.7	11.5	11.1	18.3	16.8	9.6	5.8
155.8	80°	105.3	37.0	15.9	9.6	4.8	4.3	7.2	5.3	2.4	1.0
59.2	82.5°	41.4	16.4	6.3	3.8	1.9	1.9	1.0	0.0	0.0	0.0
33.7	85°	24.5	6.7	2.9	1.4	0.5	0.0	0.0	0.0	0.0	0.0
7.2	87.5°	6.3	1.4	1.0	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>
834.4
828.6
793.1
691.6
549.2
428.5
358.8
310.2
279.4
257.3
235.2
212.6
191.4
173.1
149.1
128.9
109.2
98.6
92.3
87.5
83.2
78.9
74.5
69.3
60.6
47.6
35.1
29.3
24.0
17.8
11.5
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