

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: P939446

Luminaire Tested: **GALN-SB2A-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939446
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-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 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: 7443 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

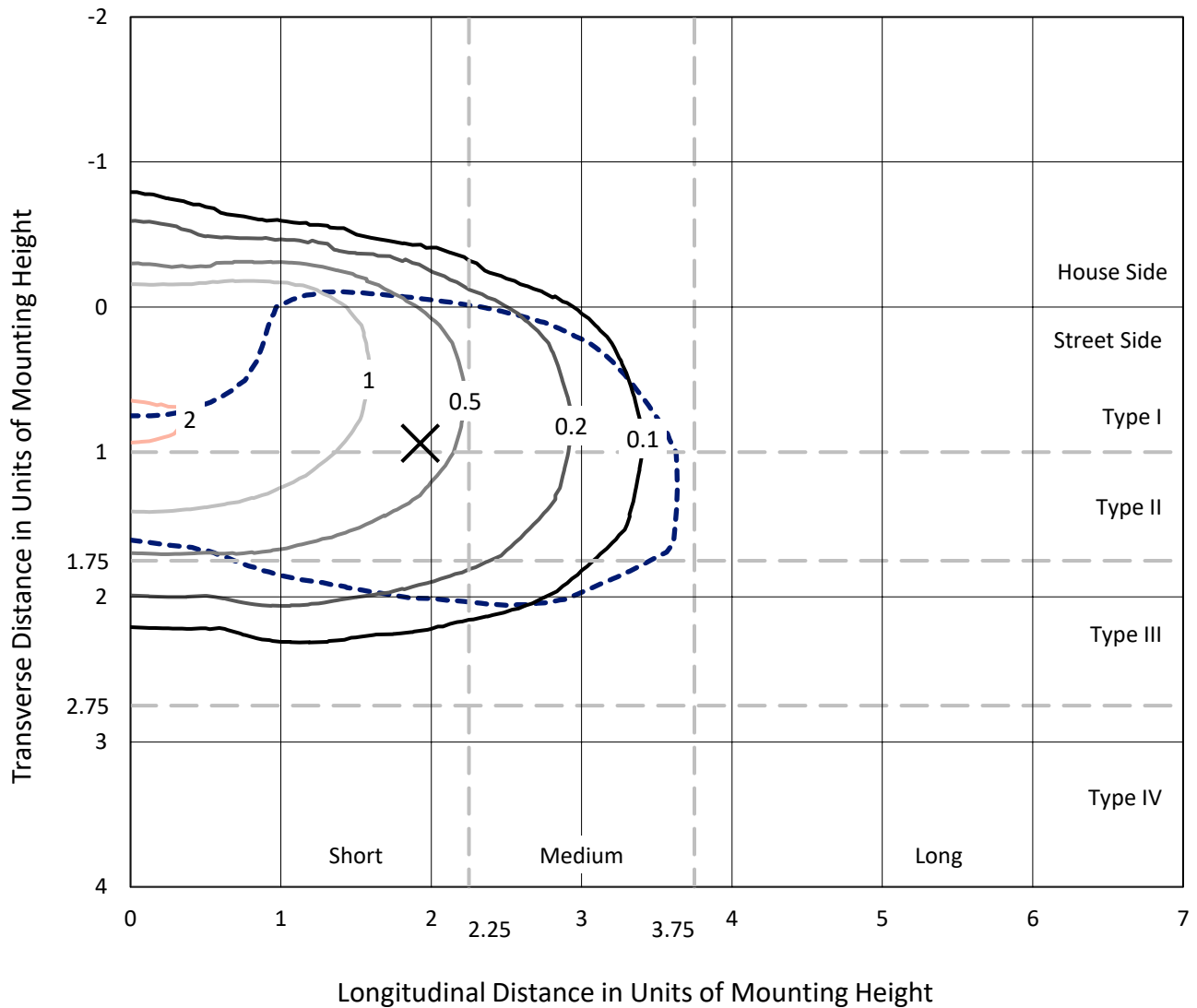
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

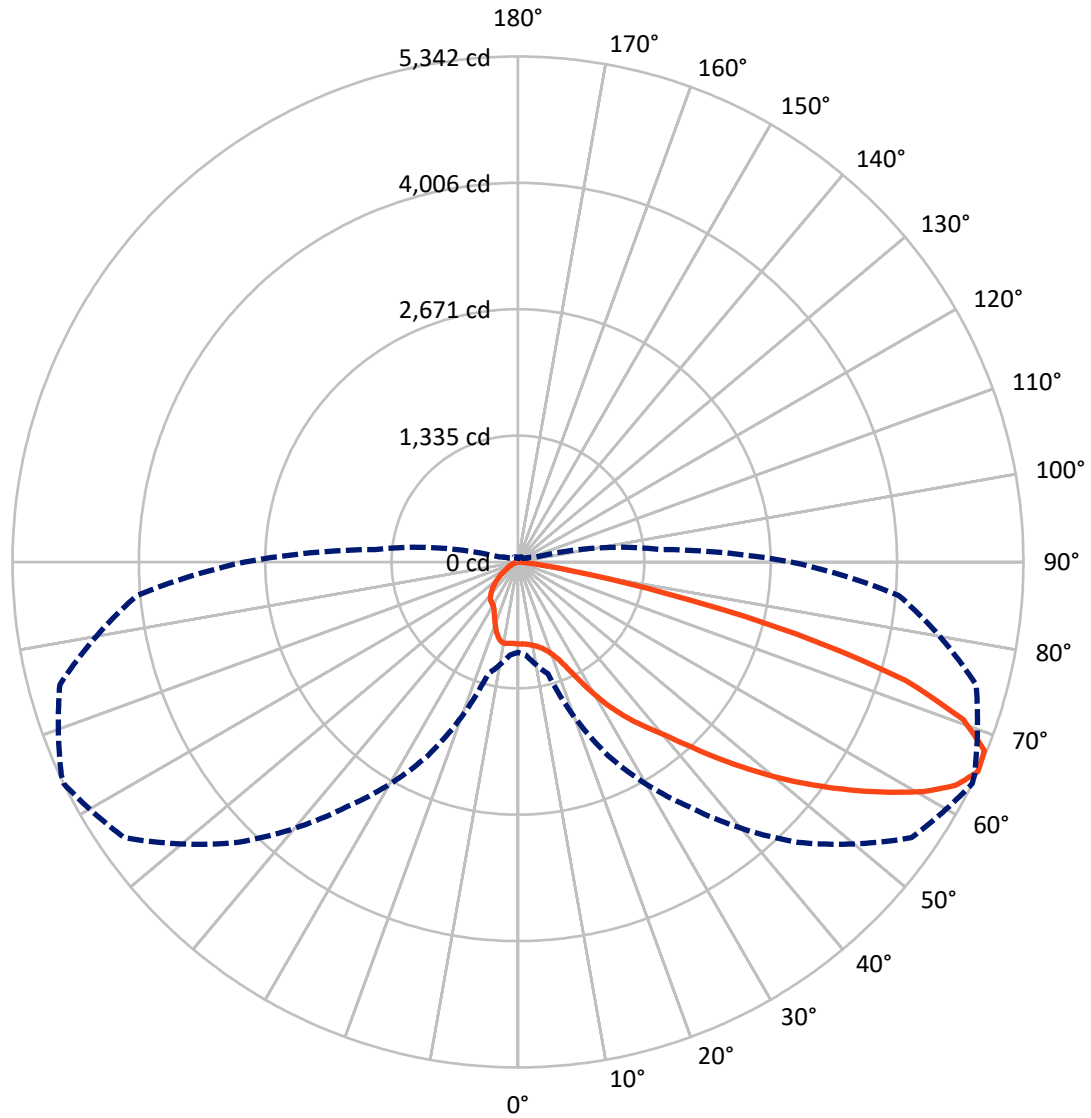
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	995.4	0.0	995.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6447.6	0.0	6447.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	7443.0	0.0	7443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.1
10°-20°	216.6	2.9
20°-30°	410.5	5.5
30°-40°	830.6	11.2
40°-50°	1415.0	19.0
50°-60°	1924.3	25.9
60°-70°	1807.0	24.3
70°-80°	724.0	9.7
80°-90°	35.1	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°	7443.0	100.0
0°-180°	7443.0	100.0

Coefficient of Utilization



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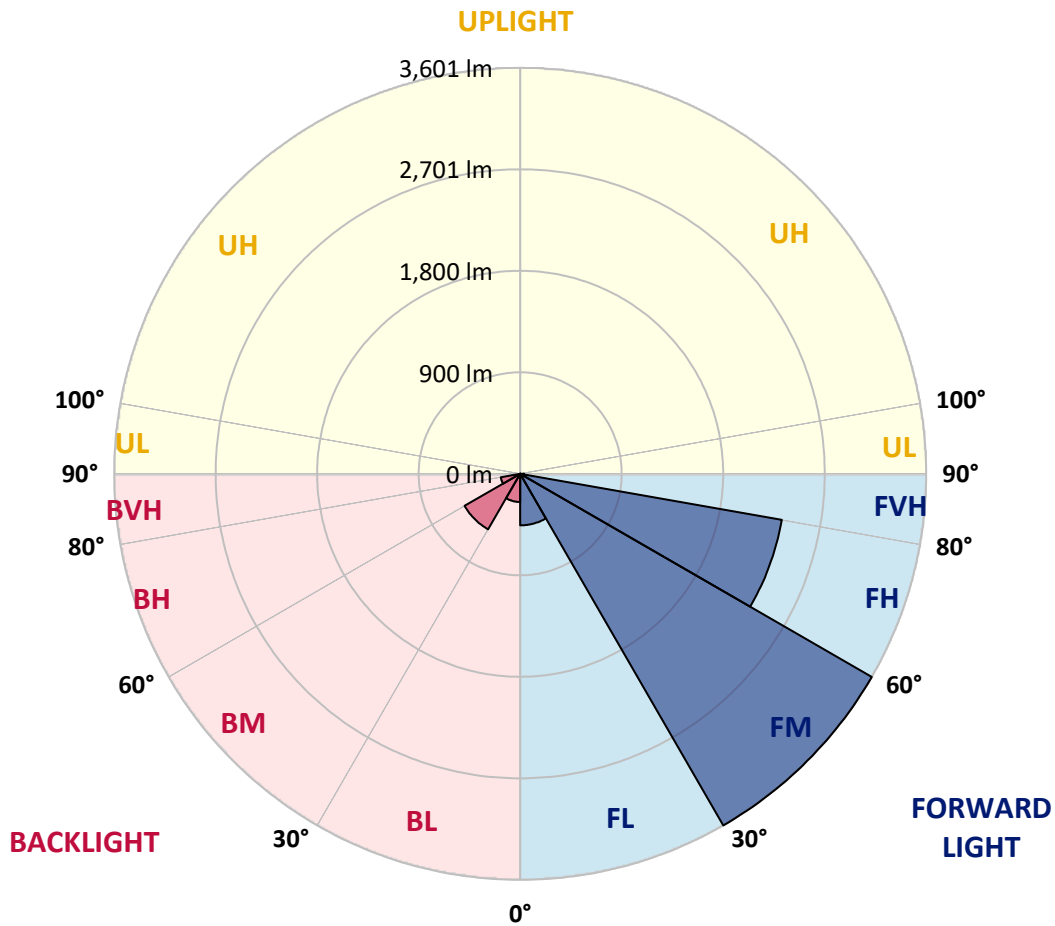
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.1	6.1			
FM (30°-60°)	3600.9	48.4			
FH (60°-80°)	2356.3	31.7			G2/5000
FVH (80°-90°)	33.4	0.4			G1/100
BL (0°-30°)	249.9	3.4	B1/500		
BM (30°-60°)	569.0	7.6	B1/1000		
BH (60°-80°)	174.7	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°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
2.5°	862.7	868.7	867.2	865.7	865.2	866.2	866.7	866.2	866.2	866.2
5°	846.2	851.2	851.2	854.7	859.7	865.7	870.2	871.2	872.2	873.7
7.5°	814.8	818.8	821.8	833.3	845.7	861.7	875.2	882.2	883.2	888.7
10°	793.3	798.3	803.3	815.3	833.3	857.2	880.2	897.1	899.6	912.6
12.5°	792.4	797.3	803.8	816.8	837.8	863.2	891.1	915.6	920.1	939.0
15°	802.8	808.8	814.8	830.8	853.2	884.2	914.1	944.5	949.0	976.0
17.5°	824.3	832.3	836.8	852.7	876.7	911.1	950.5	985.4	989.4	1020.9
20°	866.7	876.2	877.7	890.6	914.1	951.0	997.9	1041.3	1046.3	1082.2
22.5°	954.5	968.0	956.0	962.5	983.5	1020.4	1071.3	1126.2	1133.1	1174.1
25°	1109.2	1128.2	1097.2	1086.2	1095.2	1133.6	1197.5	1266.9	1274.8	1307.8
27.5°	1413.1	1388.6	1341.7	1295.8	1268.9	1290.8	1362.7	1448.5	1458.5	1490.4
30°	1746.9	1725.4	1662.0	1560.3	1496.4	1492.9	1559.3	1655.1	1666.5	1697.0
32.5°	2081.2	2060.7	1991.9	1866.6	1755.8	1701.0	1746.9	1853.1	1859.1	1878.6
35°	2410.0	2389.0	2320.2	2191.9	2055.7	1931.0	1922.0	2041.8	2043.7	2064.2
37.5°	2740.8	2723.3	2650.0	2524.2	2390.0	2217.9	2134.6	2220.4	2222.9	2242.8
40°	2976.8	2984.3	2933.9	2836.6	2721.3	2533.2	2373.1	2410.5	2395.5	2428.9
42.5°	3179.4	3194.4	3150.4	3101.5	3034.7	2869.0	2668.4	2662.0	2638.0	2656.0
45°	3354.5	3367.0	3327.6	3316.1	3314.6	3198.3	2991.3	2952.4	2918.9	2915.4
47.5°	3418.9	3442.8	3459.8	3498.2	3573.1	3524.2	3325.1	3264.7	3227.3	3199.8
50°	3443.3	3468.8	3526.7	3638.4	3815.6	3836.5	3657.4	3589.5	3543.6	3493.7
52.5°	3410.4	3455.8	3533.6	3721.8	3978.7	4087.0	3976.2	3916.8	3864.5	3783.1
55°	3216.3	3261.7	3420.9	3720.8	4060.0	4262.6	4277.6	4251.2	4192.3	4064.0
57.5°	2807.2	2874.5	3126.5	3594.0	4058.6	4413.8	4573.0	4591.9	4526.1	4342.5
60°	2240.3	2331.6	2639.0	3313.1	3933.3	4495.6	4831.9	4926.7	4856.9	4616.9
62.5°	1563.2	1669.0	1959.9	2873.0	3646.9	4436.8	5021.0	5196.2	5143.3	4862.4
65°	953.5	987.4	1222.0	2260.8	3159.9	4190.3	5079.4	5341.9	5324.4	5012.6
67.5°	635.2	663.6	731.0	1550.3	2452.9	3697.8	4939.7	5316.4	5321.4	4988.1
70°	382.7	407.2	451.1	901.6	1589.7	2926.9	4507.1	4992.1	5021.0	4661.3
72.5°	157.7	174.1	214.1	408.6	823.3	1857.6	3589.0	4286.1	4353.4	3919.3
75°	89.3	97.8	125.7	205.1	357.3	865.7	2174.0	3042.7	3142.0	2701.4
77.5°	59.4	63.4	81.3	132.7	201.1	295.4	929.1	1585.2	1774.8	1475.4
80°	39.9	43.4	55.9	88.8	130.7	126.7	295.9	587.3	722.5	506.9
82.5°	26.9	27.4	39.9	58.4	82.8	61.4	87.3	182.6	229.5	146.7
85°	15.5	15.0	29.4	33.9	36.9	25.4	26.4	54.9	71.9	61.9
87.5°	2.0	3.0	11.5	9.0	5.0	5.5	5.5	9.5	14.0	15.0
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°
865.7	0°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
866.7	2.5°	866.7	866.2	864.7	863.2	859.7	857.7	858.7	857.7	857.2	857.7
873.2	5°	873.2	871.7	867.7	862.7	855.7	847.2	841.7	833.8	826.3	821.8
890.6	7.5°	890.6	889.1	883.7	869.7	847.2	811.8	779.4	750.9	729.5	717.0
918.6	10°	918.6	916.1	907.6	876.7	817.8	740.5	676.1	622.7	587.8	571.3
951.5	12.5°	951.5	948.5	933.6	870.2	761.9	641.2	552.4	493.0	460.5	446.1
989.4	15°	990.4	986.4	957.0	839.3	680.6	531.4	450.1	405.7	384.7	371.7
1037.8	17.5°	1038.8	1031.9	974.5	792.8	592.3	447.6	387.2	353.8	335.3	322.8
1101.2	20°	1101.7	1090.2	988.4	737.5	510.9	394.7	344.8	316.8	302.9	291.9
1191.0	22.5°	1189.5	1173.1	1005.4	677.6	453.6	358.3	313.3	292.9	281.4	268.9
1316.3	25°	1298.3	1278.8	1026.4	622.2	414.1	326.8	290.4	273.4	260.0	245.5
1480.4	27.5°	1450.5	1415.6	1051.3	576.8	380.2	299.9	269.4	250.5	235.0	223.0
1666.5	30°	1620.1	1562.7	1073.3	549.4	349.3	274.9	242.0	223.0	208.6	200.1
1833.7	32.5°	1780.8	1703.0	1087.7	537.4	321.3	246.5	212.1	191.6	180.6	178.1
1997.3	35°	1932.5	1829.7	1086.2	525.9	296.4	218.0	182.6	161.7	153.2	154.7
2173.5	37.5°	2107.1	1964.9	1075.8	507.9	275.9	192.1	157.2	138.7	131.2	131.7
2387.5	40°	2310.2	2121.1	1069.3	474.0	253.5	168.2	136.2	121.2	115.8	113.8
2613.1	42.5°	2526.7	2272.3	1070.3	435.6	225.5	146.7	121.7	109.3	104.3	102.8
2864.0	45°	2744.3	2416.5	1071.8	395.7	196.1	130.2	111.3	100.8	97.8	95.8
3118.5	47.5°	2948.9	2539.2	1043.8	352.8	167.2	117.8	102.8	95.8	93.3	90.8
3374.0	50°	3139.5	2621.0	976.5	302.9	144.2	107.8	96.3	91.3	88.8	86.3
3605.5	52.5°	3287.7	2634.0	865.2	251.5	128.2	100.3	92.3	87.8	84.8	82.3
3792.6	55°	3353.5	2552.7	707.0	203.6	115.8	93.8	88.3	83.8	80.3	77.8
3939.8	57.5°	3336.6	2381.5	551.4	163.7	103.8	87.3	83.3	80.3	76.3	72.3
4059.1	60°	3253.2	2152.5	415.6	136.2	92.8	80.3	77.8	75.3	69.9	63.9
4105.0	62.5°	3109.0	1864.6	296.4	112.8	80.8	72.3	71.4	69.4	61.4	50.4
4037.1	65°	2888.5	1514.8	199.6	93.8	69.4	63.4	63.9	60.4	49.9	37.4
3788.6	67.5°	2566.2	1107.7	127.7	76.8	57.9	52.9	53.4	51.4	42.4	31.9
3317.6	70°	2155.5	733.5	83.3	58.4	46.4	40.9	43.9	44.4	35.9	25.9
2546.2	72.5°	1580.2	433.1	58.4	43.4	33.9	28.4	35.9	36.9	28.9	19.5
1531.8	75°	900.6	205.6	43.9	31.4	21.0	20.0	27.9	27.9	20.0	13.0
663.1	77.5°	378.2	85.8	30.9	20.5	12.0	11.5	19.0	17.5	10.0	6.0
161.7	80°	109.3	38.4	16.5	10.0	5.0	4.5	7.5	5.5	2.5	1.0
61.4	82.5°	42.9	17.0	6.5	4.0	2.0	2.0	1.0	0.0	0.0	0.0
34.9	85°	25.4	7.0	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	6.5	1.5	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>
865.7
859.7
822.8
717.5
569.8
444.6
372.2
321.8
289.9
266.9
244.0
220.5
198.6
179.6
154.7
133.7
113.3
102.3
95.8
90.8
86.3
81.8
77.3
71.9
62.9
49.4
36.4
30.4
24.9
18.5
12.0
6.0
1.0
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