

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: P939426

Luminaire Tested: **GALN-SB2A-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939426
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-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 7036 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

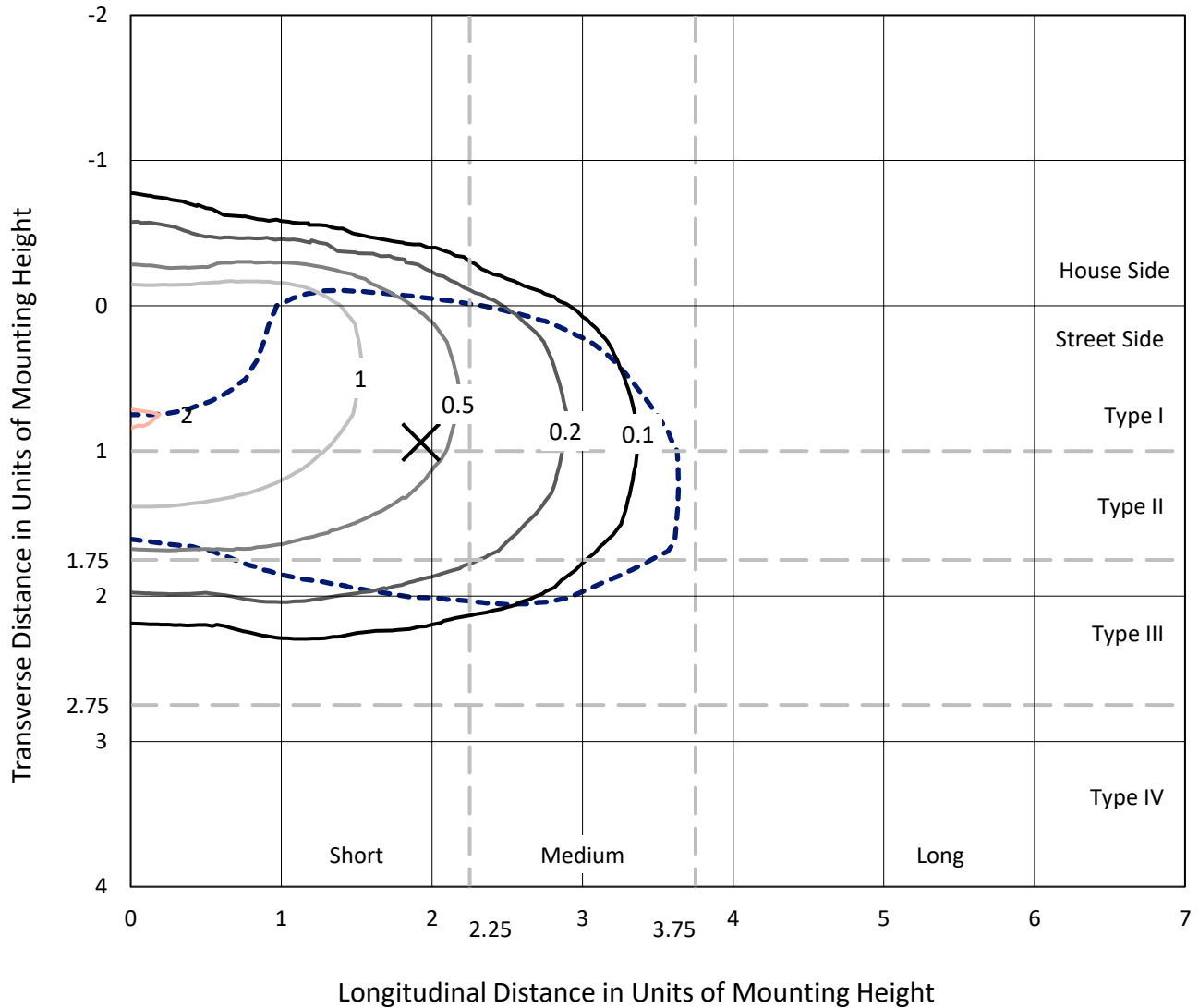
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

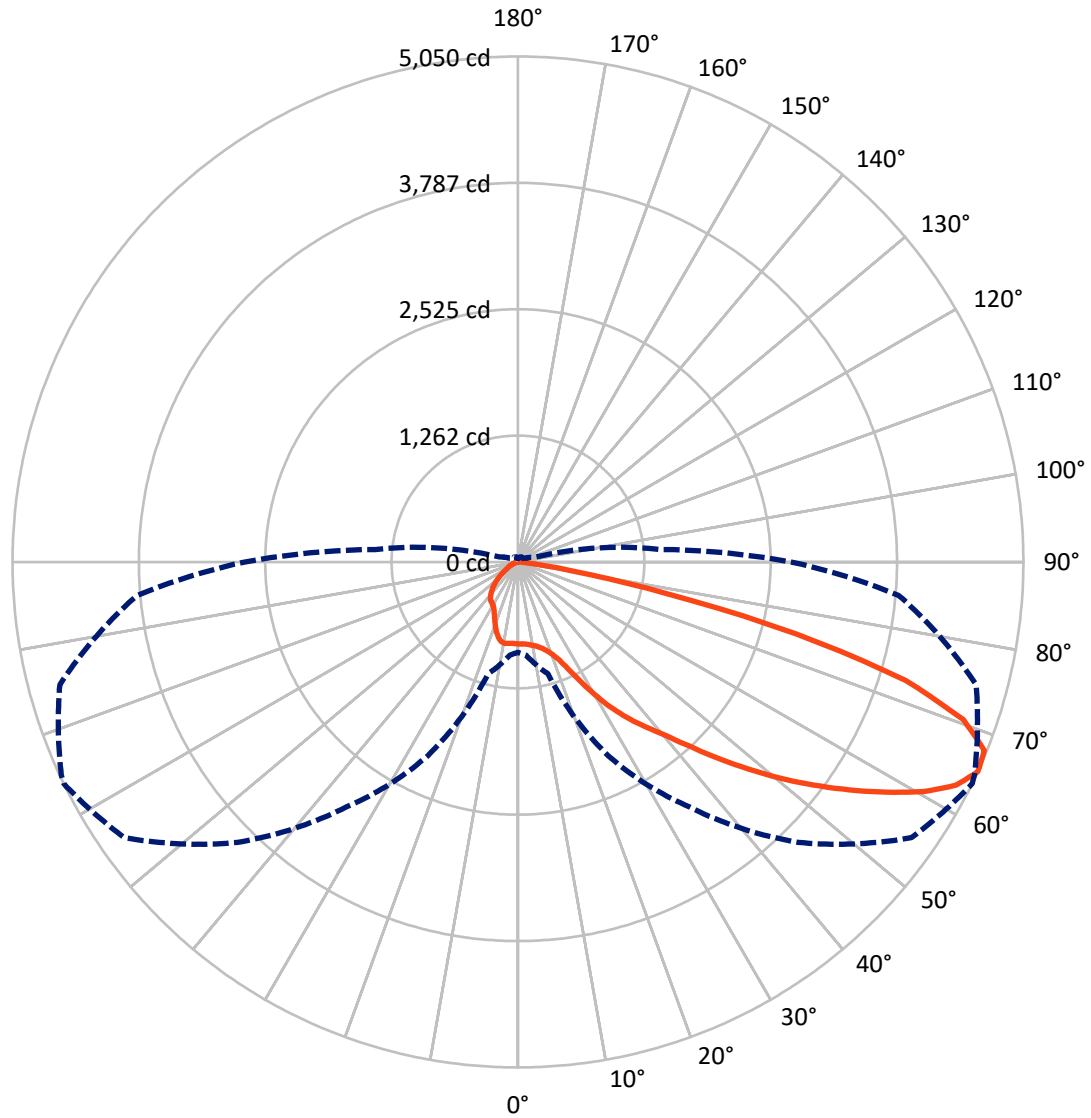
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	940.9	0.0	940.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6095.1	0.0	6095.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	7036.0	0.0	7036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.1
10°-20°	204.8	2.9
20°-30°	388.0	5.5
30°-40°	785.2	11.2
40°-50°	1337.6	19.0
50°-60°	1819.1	25.9
60°-70°	1708.2	24.3
70°-80°	684.4	9.7
80°-90°	33.2	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°	7036.0	100.0
0°-180°	7036.0	100.0

Coefficient of Utilization



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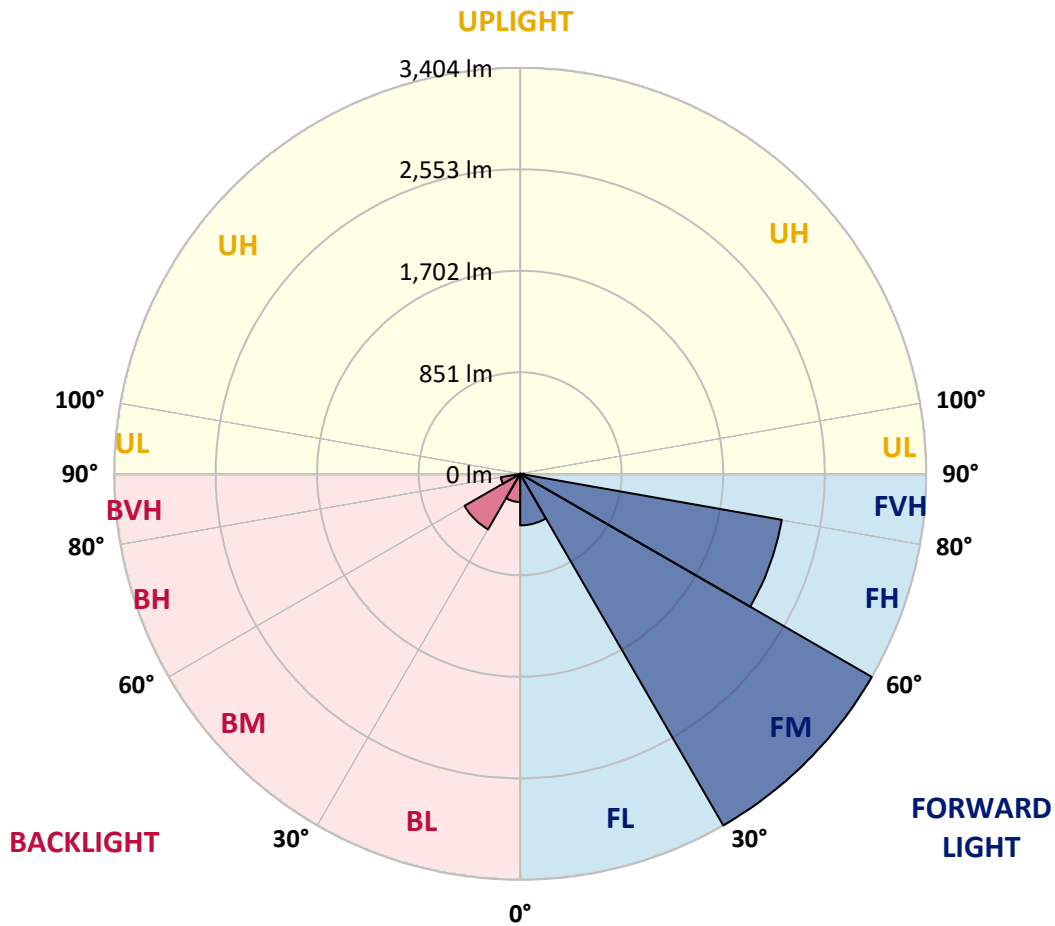
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.1	6.1			
FM (30°-60°)	3404.0	48.4			
FH (60°-80°)	2227.4	31.7			G2/5000
FVH (80°-90°)	31.5	0.4			G1/100
BL (0°-30°)	236.2	3.4	B1/500		
BM (30°-60°)	537.9	7.6	B1/1000		
BH (60°-80°)	165.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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°	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4
2.5°	815.5	821.2	819.8	818.4	817.9	818.8	819.3	818.8	818.8	818.8
5°	800.0	804.7	804.7	808.0	812.7	818.4	822.6	823.5	824.5	825.9
7.5°	770.2	774.0	776.9	787.7	799.5	814.6	827.3	833.9	834.9	840.1
10°	750.0	754.7	759.4	770.7	787.7	810.3	832.0	848.1	850.4	862.7
12.5°	749.0	753.7	759.9	772.1	791.9	816.0	842.4	865.5	869.8	887.7
15°	758.9	764.6	770.2	785.3	806.6	835.8	864.1	892.9	897.1	922.6
17.5°	779.2	786.8	791.0	806.1	828.7	861.3	898.5	931.6	935.3	965.1
20°	819.3	828.3	829.7	841.9	864.1	899.0	943.4	984.4	989.1	1023.1
22.5°	902.3	915.1	903.7	909.9	929.7	964.6	1012.7	1064.6	1071.2	1109.9
25°	1048.5	1066.5	1037.2	1026.8	1035.3	1071.7	1132.0	1197.6	1205.1	1236.3
27.5°	1335.8	1312.7	1268.3	1224.9	1199.5	1220.2	1288.2	1369.3	1378.7	1408.9
30°	1651.3	1631.1	1571.2	1474.9	1414.6	1411.3	1474.0	1564.6	1575.4	1604.2
32.5°	1967.4	1948.0	1882.9	1764.5	1659.8	1607.9	1651.3	1751.8	1757.5	1775.9
35°	2278.2	2258.4	2193.3	2072.1	1943.3	1825.4	1816.9	1930.1	1932.0	1951.3
37.5°	2590.9	2574.4	2505.1	2386.2	2259.3	2096.6	2017.8	2099.0	2101.3	2120.2
40°	2814.0	2821.1	2773.5	2681.5	2572.5	2394.7	2243.3	2278.7	2264.5	2296.1
42.5°	3005.5	3019.7	2978.2	2931.9	2868.7	2712.1	2522.5	2516.4	2493.8	2510.7
45°	3171.1	3182.9	3145.6	3134.8	3133.4	3023.5	2827.7	2790.9	2759.3	2756.0
47.5°	3231.9	3254.6	3270.6	3306.9	3377.7	3331.5	3143.3	3086.2	3050.8	3024.9
50°	3255.0	3279.1	3333.8	3439.5	3606.9	3626.7	3457.4	3393.2	3349.9	3302.7
52.5°	3223.9	3266.8	3340.4	3518.2	3761.2	3863.5	3758.8	3702.7	3653.1	3576.3
55°	3040.4	3083.4	3233.8	3517.3	3838.0	4029.5	4043.7	4018.7	3963.0	3841.8
57.5°	2653.7	2717.3	2955.5	3397.5	3836.6	4172.5	4322.9	4340.8	4278.6	4105.0
60°	2117.8	2204.1	2494.7	3131.9	3718.2	4249.8	4567.7	4657.3	4591.3	4364.4
62.5°	1477.8	1577.8	1852.7	2715.9	3447.5	4194.2	4746.5	4912.0	4862.0	4596.5
65°	901.4	933.4	1155.1	2137.2	2987.1	3961.1	4801.7	5049.8	5033.3	4738.5
67.5°	600.4	627.3	691.0	1465.5	2318.8	3495.6	4669.6	5025.7	5030.4	4715.4
70°	361.8	384.9	426.4	852.3	1502.8	2766.9	4260.7	4719.1	4746.5	4406.4
72.5°	149.0	164.6	202.3	386.3	778.3	1756.1	3392.8	4051.7	4115.4	3705.0
75°	84.4	92.4	118.9	193.9	337.7	818.4	2055.1	2876.3	2970.2	2553.7
77.5°	56.1	59.9	76.9	125.5	190.1	279.2	878.3	1498.5	1677.8	1394.7
80°	37.7	41.0	52.8	84.0	123.6	119.8	279.7	555.2	683.0	479.2
82.5°	25.5	25.9	37.7	55.2	78.3	58.0	82.5	172.6	217.0	138.7
85°	14.6	14.2	27.8	32.1	34.9	24.1	25.0	51.9	67.9	58.5
87.5°	1.9	2.8	10.8	8.5	4.7	5.2	5.2	9.0	13.2	14.2
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°
818.4	0°	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4
819.3	2.5°	819.3	818.8	817.4	816.0	812.7	810.8	811.8	810.8	810.3	810.8
825.4	5°	825.4	824.0	820.2	815.5	808.9	800.9	795.7	788.2	781.1	776.9
841.9	7.5°	841.9	840.5	835.3	822.1	800.9	767.4	736.8	709.9	689.6	677.8
868.4	10°	868.4	866.0	858.0	828.7	773.1	700.0	639.1	588.7	555.6	540.1
899.5	12.5°	899.5	896.7	882.5	822.6	720.3	606.1	522.1	466.0	435.4	421.7
935.3	15°	936.3	932.5	904.7	793.4	643.4	502.3	425.5	383.5	363.7	351.4
981.1	17.5°	982.0	975.4	921.2	749.5	559.9	423.1	366.0	334.4	317.0	305.2
1041.0	20°	1041.5	1030.6	934.4	697.1	483.0	373.1	325.9	299.5	286.3	275.9
1125.9	22.5°	1124.5	1108.9	950.4	640.5	428.8	338.7	296.2	276.9	266.0	254.2
1244.3	25°	1227.3	1208.9	970.2	588.2	391.5	308.9	274.5	258.5	245.7	232.1
1399.5	27.5°	1371.2	1338.1	993.8	545.3	359.4	283.5	254.7	236.8	222.2	210.8
1575.4	30°	1531.5	1477.3	1014.6	519.3	330.2	259.9	228.8	210.8	197.2	189.1
1733.4	32.5°	1683.4	1609.8	1028.3	508.0	303.8	233.0	200.5	181.1	170.7	168.4
1888.1	35°	1826.8	1729.6	1026.8	497.1	280.2	206.1	172.6	152.8	144.8	146.2
2054.6	37.5°	1991.9	1857.5	1016.9	480.2	260.8	181.6	148.6	131.1	124.1	124.5
2257.0	40°	2183.9	2005.1	1010.8	448.1	239.6	159.0	128.8	114.6	109.4	107.5
2470.2	42.5°	2388.6	2148.0	1011.7	411.8	213.2	138.7	115.1	103.3	98.6	97.2
2707.4	45°	2594.2	2284.3	1013.2	374.0	185.4	123.1	105.2	95.3	92.4	90.6
2948.0	47.5°	2787.6	2400.4	986.7	333.5	158.0	111.3	97.2	90.6	88.2	85.8
3189.5	50°	2967.8	2477.7	923.1	286.3	136.3	101.9	91.0	86.3	84.0	81.6
3408.3	52.5°	3107.9	2490.0	817.9	237.7	121.2	94.8	87.3	83.0	80.2	77.8
3585.2	55°	3170.1	2413.1	668.4	192.4	109.4	88.7	83.5	79.2	75.9	73.6
3724.4	57.5°	3154.1	2251.3	521.2	154.7	98.1	82.5	78.8	75.9	72.2	68.4
3837.1	60°	3075.3	2034.8	392.9	128.8	87.7	75.9	73.6	71.2	66.0	60.4
3880.5	62.5°	2939.0	1762.7	280.2	106.6	76.4	68.4	67.4	65.6	58.0	47.6
3816.3	65°	2730.5	1432.0	188.7	88.7	65.6	59.9	60.4	57.1	47.2	35.4
3581.4	67.5°	2425.8	1047.1	120.7	72.6	54.7	50.0	50.5	48.6	40.1	30.2
3136.2	70°	2037.6	693.4	78.8	55.2	43.9	38.7	41.5	42.0	34.0	24.5
2407.0	72.5°	1493.8	409.4	55.2	41.0	32.1	26.9	34.0	34.9	27.4	18.4
1448.0	75°	851.4	194.3	41.5	29.7	19.8	18.9	26.4	26.4	18.9	12.3
626.9	77.5°	357.5	81.1	29.2	19.3	11.3	10.8	17.9	16.5	9.4	5.7
152.8	80°	103.3	36.3	15.6	9.4	4.7	4.2	7.1	5.2	2.4	0.9
58.0	82.5°	40.6	16.0	6.1	3.8	1.9	1.9	0.9	0.0	0.0	0.0
33.0	85°	24.1	6.6	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
7.1	87.5°	6.1	1.4	0.9	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>
818.4
812.7
777.8
678.3
538.7
420.3
351.9
304.2
274.0
252.3
230.7
208.5
187.7
169.8
146.2
126.4
107.1
96.7
90.6
85.8
81.6
77.4
73.1
67.9
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