

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: P939081

Luminaire Tested: **GALN-SB1C-735-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939081
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-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 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: 5229 lumens
Efficiency: N/A
Efficacy: 96.1 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

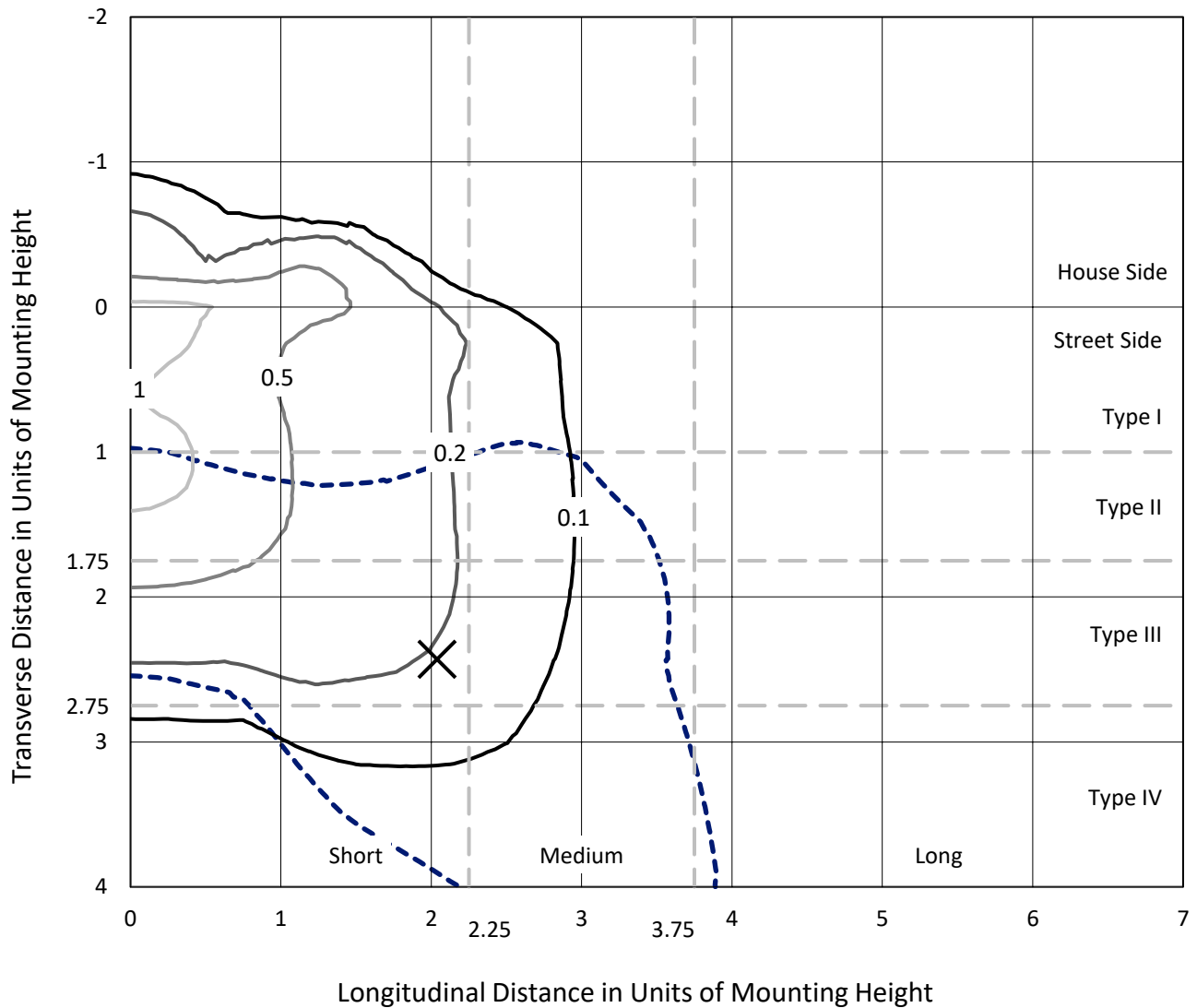
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

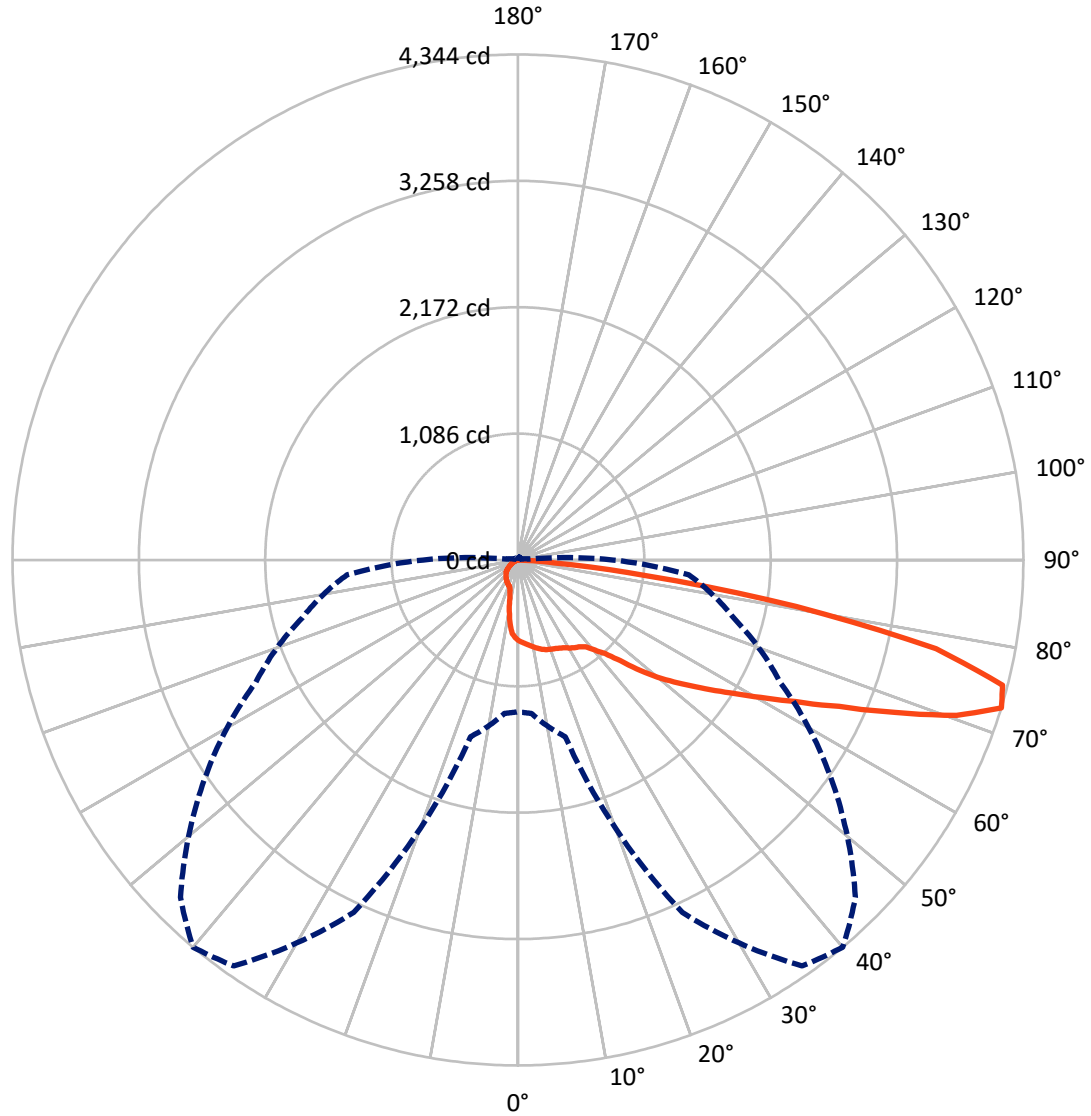
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	675.3	0.0	675.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4553.7	0.0	4553.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	5229.0	0.0	5229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.2
10°-20°	171.7	3.3
20°-30°	277.9	5.3
30°-40°	410.2	7.8
40°-50°	690.4	13.2
50°-60°	1072.0	20.5
60°-70°	1341.3	25.7
70°-80°	1098.2	21.0
80°-90°	104.1	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°	5229.0	100.0
0°-180°	5229.0	100.0

Coefficient of Utilization



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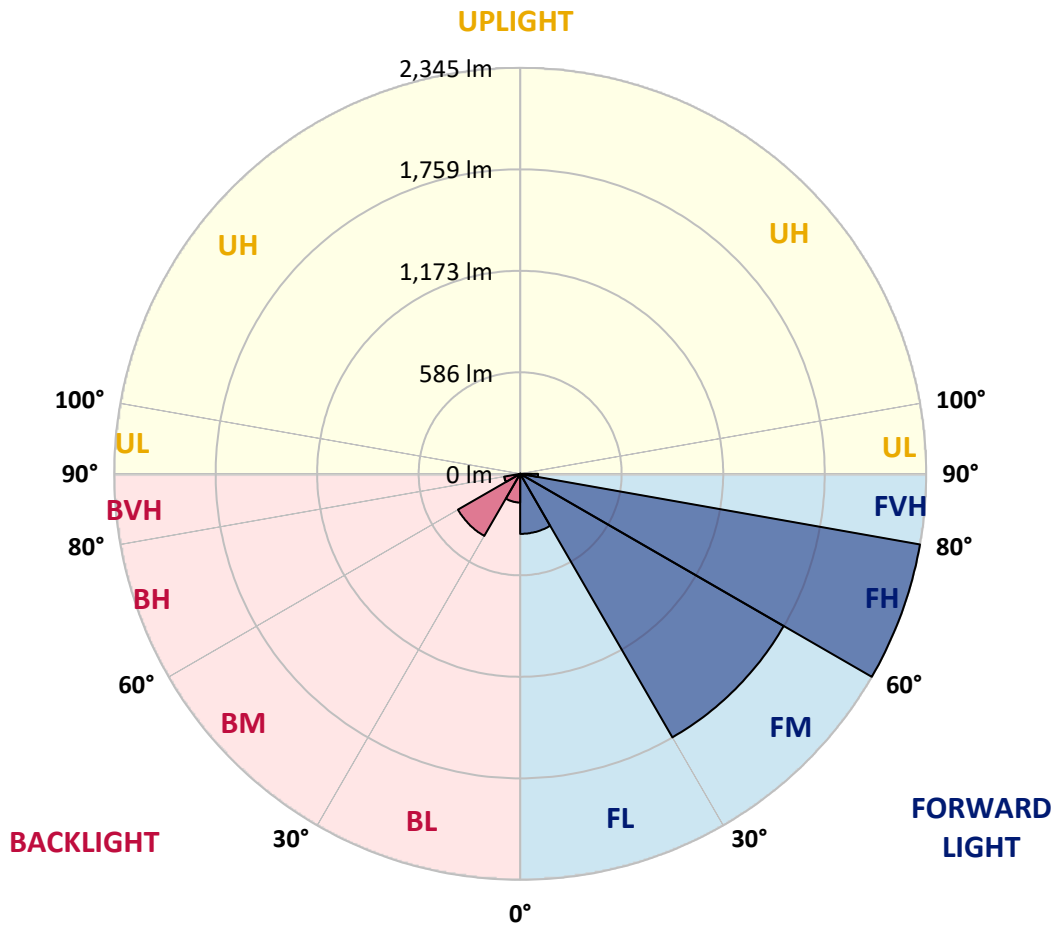
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.1	6.6			
FM (30°-60°)	1757.9	33.6			
FH (60°-80°)	2345.4	44.9			G2/5000
FVH (80°-90°)	103.3	2.0			G2/225
BL (0°-30°)	165.7	3.2	B1/500		
BM (30°-60°)	414.7	7.9	B1/1000		
BH (60°-80°)	94.1	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	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°	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4
2.5°	713.2	716.0	714.4	711.3	710.5	708.9	706.9	706.1	703.4	701.0
5°	733.3	736.1	734.1	729.8	727.8	725.8	723.1	720.7	715.2	710.1
7.5°	755.4	757.7	755.4	749.1	745.9	743.6	739.6	736.1	729.8	722.3
10°	779.8	781.8	778.2	769.9	764.8	761.3	757.7	753.8	747.9	739.6
12.5°	802.6	805.0	799.5	789.6	783.7	780.2	776.2	773.1	767.2	759.3
15°	823.5	827.1	817.6	807.0	800.3	797.5	793.6	791.6	787.7	782.2
17.5°	839.3	841.6	831.8	819.2	811.7	809.7	807.0	808.1	807.4	804.6
20°	852.7	854.2	841.2	825.9	817.6	818.0	817.2	821.1	822.7	822.7
22.5°	869.2	869.6	853.0	833.7	823.9	826.7	827.8	832.2	835.3	838.5
25°	890.9	890.1	870.4	844.0	835.3	839.3	842.0	843.6	847.1	852.3
27.5°	923.1	920.8	895.6	860.5	850.3	853.8	859.0	858.2	856.6	860.5
30°	964.1	961.0	927.5	883.8	874.3	877.5	879.0	872.0	860.5	864.1
32.5°	1029.1	1023.6	977.1	909.8	895.2	898.7	896.8	882.2	865.3	868.8
35°	1142.1	1128.7	1063.0	964.1	918.8	914.9	910.2	896.0	875.1	871.6
37.5°	1382.4	1358.7	1246.5	1070.0	972.4	946.8	932.2	918.0	885.7	871.6
40°	1653.3	1629.3	1499.7	1247.3	1061.4	1018.1	983.4	944.0	896.8	876.7
42.5°	1936.1	1909.7	1776.6	1467.0	1188.6	1099.6	1035.0	964.9	914.9	892.4
45°	2251.9	2218.9	2044.8	1696.2	1373.3	1235.1	1118.1	1007.8	946.4	920.4
47.5°	2585.1	2542.2	2312.2	1918.8	1572.2	1422.5	1270.1	1084.6	992.9	962.1
50°	2880.5	2838.0	2588.3	2151.5	1758.1	1600.9	1443.4	1191.0	1062.6	1021.2
52.5°	3092.8	3060.5	2839.6	2391.8	1951.5	1768.3	1600.5	1314.6	1150.8	1096.8
55°	3235.0	3205.4	3017.6	2619.4	2176.3	1952.6	1755.3	1448.9	1257.1	1187.4
57.5°	3321.2	3304.3	3146.3	2822.6	2399.2	2154.3	1932.5	1596.6	1382.4	1294.1
60°	3351.9	3338.1	3226.3	3016.4	2668.6	2396.5	2140.9	1763.2	1534.4	1415.4
62.5°	3270.0	3272.8	3283.8	3246.0	2952.6	2680.0	2390.6	1963.3	1702.9	1552.9
65°	2884.4	2907.3	3116.8	3500.4	3328.7	3035.3	2708.4	2207.4	1895.9	1709.2
67.5°	2388.2	2421.3	2682.0	3649.3	3729.6	3496.5	3151.1	2518.6	2125.9	1868.4
70°	1828.2	1863.6	2179.5	3618.2	4104.9	4000.6	3698.5	2914.4	2364.2	1978.6
72.5°	1304.8	1322.9	1571.8	3341.3	4258.9	4344.0	4101.8	3289.3	2485.9	1917.6
75°	916.8	913.7	1078.7	2690.7	4019.1	4302.3	3960.4	3086.5	2249.6	1523.4
77.5°	399.3	400.1	538.8	1634.0	3207.8	3674.5	3292.1	1933.3	1568.3	807.4
80°	103.6	106.7	197.7	650.6	1931.4	2425.2	2007.8	849.9	724.7	196.9
82.5°	36.6	39.0	91.0	204.4	712.4	1112.2	894.0	271.7	189.0	56.3
85°	10.6	12.6	48.8	62.6	147.3	314.3	217.0	52.8	46.5	29.1
87.5°	0.0	1.6	9.8	8.7	8.7	5.9	11.0	5.9	7.5	3.5
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°
692.4	0°	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4
698.3	2.5°	695.9	693.1	687.2	680.9	675.0	669.5	667.9	662.0	659.3	659.7
703.8	5°	699.5	694.3	682.9	669.1	654.9	638.8	625.4	606.5	590.4	588.4
714.4	7.5°	708.9	700.6	682.1	655.3	619.9	575.4	534.0	493.1	469.8	457.2
730.2	10°	723.5	712.4	684.1	632.9	557.7	478.1	415.5	363.9	337.5	325.3
749.5	12.5°	740.8	728.6	687.2	594.7	477.3	373.0	305.2	273.7	268.2	267.4
773.1	15°	765.2	751.8	690.8	543.1	390.3	284.0	252.8	253.2	257.6	259.9
798.7	17.5°	792.4	779.0	685.7	480.1	304.4	242.6	241.8	245.4	251.7	254.0
822.3	20°	820.0	807.4	667.6	406.0	246.1	231.2	234.3	238.3	244.6	247.7
845.6	22.5°	848.3	837.3	638.8	327.3	222.1	222.9	226.8	230.8	237.9	241.4
868.4	25°	878.6	869.2	600.6	262.3	211.9	214.2	219.4	224.1	231.6	235.9
887.7	27.5°	909.4	902.3	557.3	219.0	202.4	205.2	211.1	217.4	224.9	230.0
904.6	30°	942.8	938.9	522.6	202.8	193.4	195.7	202.4	209.5	217.8	224.1
921.6	32.5°	977.1	976.3	505.7	214.6	185.1	186.7	192.6	199.7	209.9	217.8
935.8	35°	1011.0	1012.5	495.8	248.1	182.3	178.0	182.0	188.3	200.5	210.3
951.9	37.5°	1054.3	1058.2	495.4	284.3	189.0	169.3	172.1	176.4	187.1	198.5
977.1	40°	1118.9	1139.8	520.6	315.5	200.9	161.5	162.3	163.0	168.6	178.0
1010.6	42.5°	1204.7	1265.8	611.6	336.7	205.6	154.4	151.6	147.3	146.5	151.6
1056.3	45°	1311.5	1418.2	771.5	348.5	200.9	146.5	139.0	127.6	123.3	126.8
1118.1	47.5°	1437.1	1585.2	961.0	351.3	193.0	136.7	123.3	108.3	104.8	105.9
1201.2	50°	1559.6	1710.4	1127.5	328.5	180.0	124.1	105.9	93.3	91.0	91.4
1299.3	52.5°	1667.9	1753.4	1174.8	274.5	162.7	108.7	91.0	82.3	80.7	80.7
1407.6	55°	1739.6	1706.9	1047.6	209.9	141.0	92.9	78.0	73.6	72.9	72.5
1528.5	57.5°	1754.5	1555.6	791.2	151.6	110.3	78.4	69.3	67.0	65.4	63.8
1652.5	60°	1701.0	1303.6	503.7	105.9	82.7	67.0	61.4	59.9	56.7	53.6
1769.1	62.5°	1585.2	984.6	278.8	73.6	66.6	57.1	54.3	52.4	46.5	41.4
1861.7	65°	1429.6	654.6	123.3	57.5	54.3	48.0	46.5	43.7	36.6	30.7
1896.7	67.5°	1273.3	376.9	55.5	46.1	43.7	39.4	38.2	36.2	31.1	25.6
1807.3	70°	1094.9	191.0	38.2	36.6	33.9	29.9	31.1	30.7	25.6	20.9
1474.1	72.5°	815.2	94.9	28.7	27.6	24.4	21.3	25.6	25.2	20.1	15.8
909.0	75°	461.6	46.9	20.9	19.3	14.6	15.8	20.5	19.3	13.8	10.2
383.6	77.5°	183.1	24.0	13.8	11.8	8.7	10.6	15.0	13.0	7.1	4.3
73.3	80°	42.1	11.8	7.1	5.1	3.9	6.3	7.9	4.7	2.0	0.4
19.7	82.5°	11.8	5.1	2.4	2.0	2.0	2.4	2.0	0.8	0.0	0.0
5.1	85°	3.9	2.4	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0
1.6	87.5°	1.6	0.8	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>
692.4
659.3
587.2
456.5
322.9
267.0
259.5
253.6
247.7
241.4
235.9
230.4
224.9
218.6
211.9
200.5
181.2
154.4
126.8
105.5
91.4
80.3
71.7
63.0
52.4
39.8
29.5
24.8
20.1
15.0
9.5
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