

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: P945265

Luminaire Tested: **GALN-SB1B-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4305 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

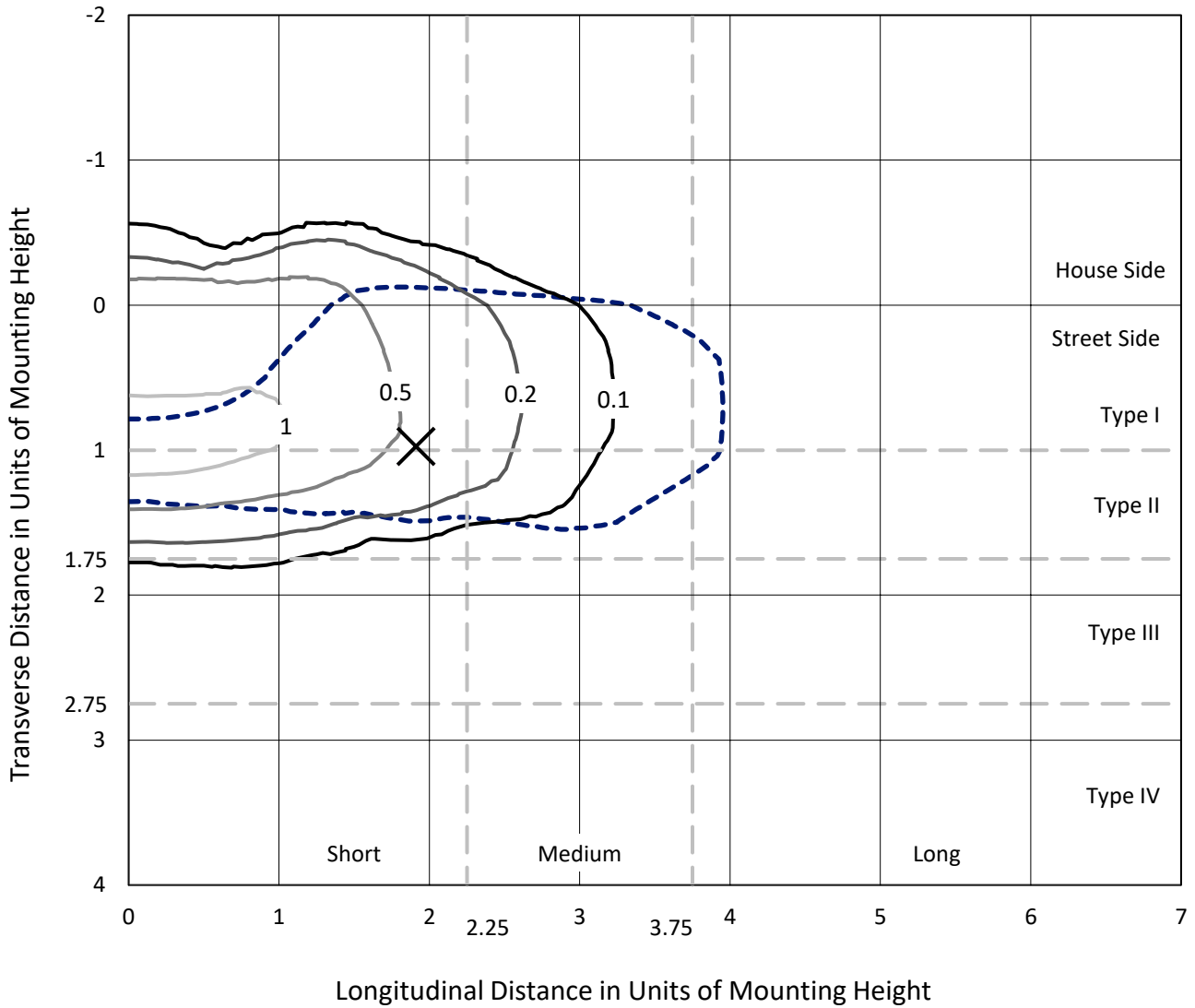
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

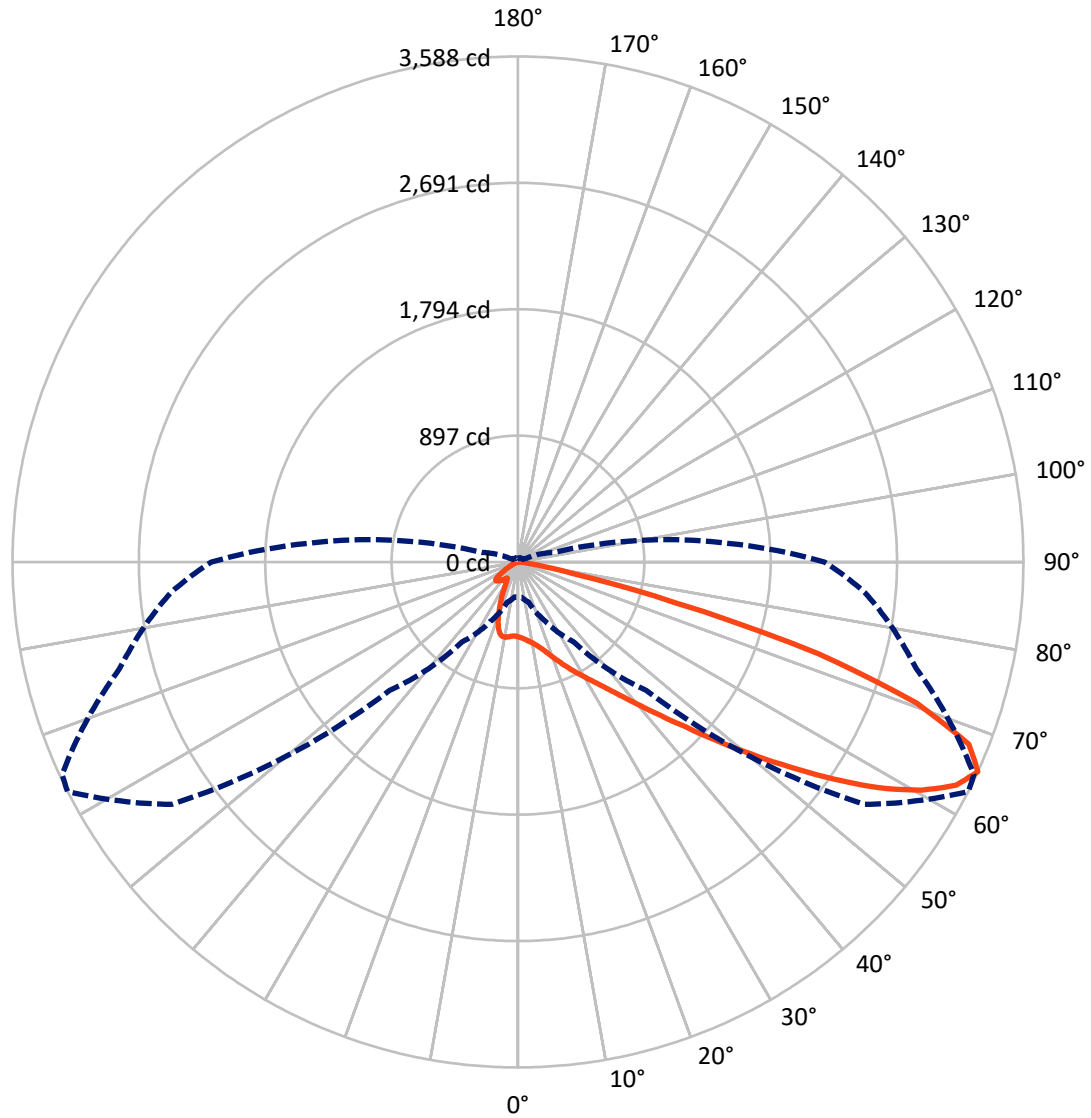
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	632.8	0.0	632.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3672.2	0.0	3672.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	4305.0	0.0	4305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.2
10°-20°	138.9	3.2
20°-30°	241.9	5.6
30°-40°	435.9	10.1
40°-50°	864.6	20.1
50°-60°	1177.7	27.4
60°-70°	940.0	21.8
70°-80°	425.4	9.9
80°-90°	30.6	0.7
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°	4305.0	100.0
0°-180°	4305.0	100.0

Coefficient of Utilization



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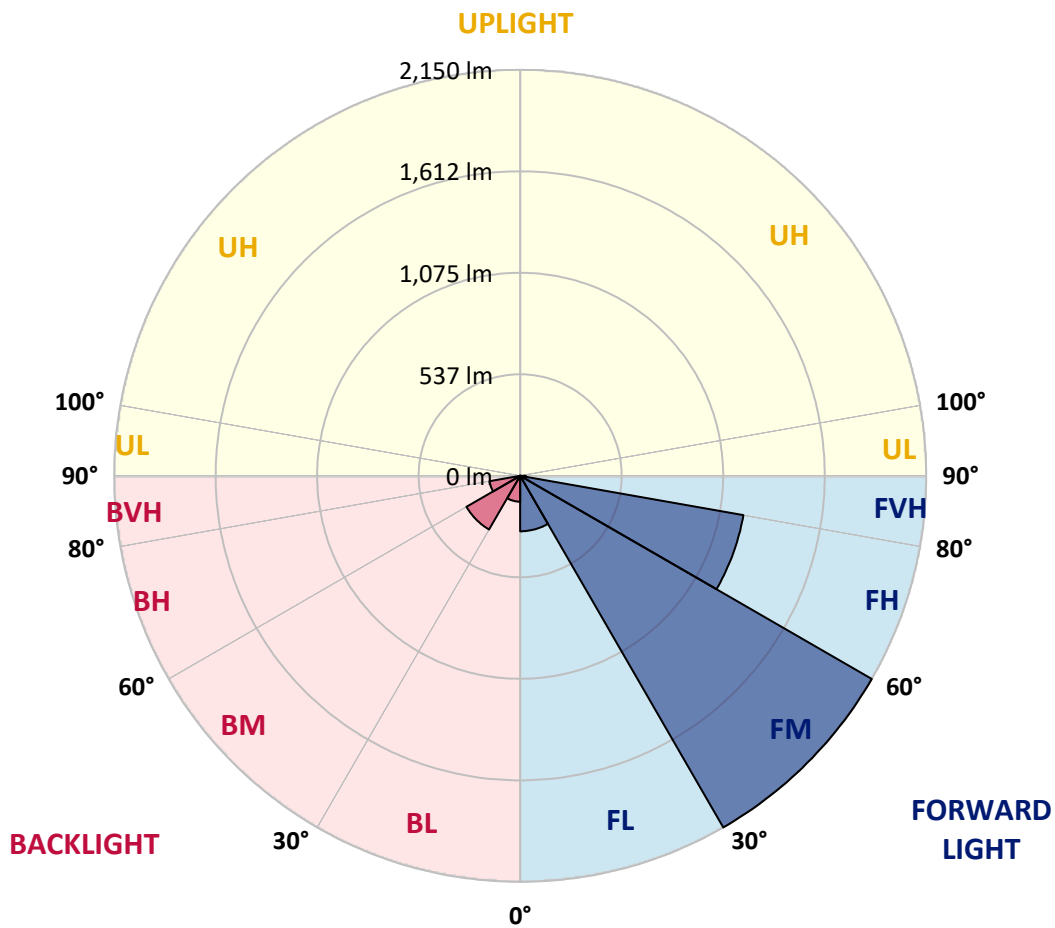
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.9	6.8			
FM (30°-60°)	2149.8	49.9			
FH (60°-80°)	1200.2	27.9			G1/1800
FVH (80°-90°)	28.3	0.7			G1/100
BL (0°-30°)	136.9	3.2	B1/500		
BM (30°-60°)	328.4	7.6	B1/1000		
BH (60°-80°)	165.2	3.8	B1/500		G1/500
BVH (80°-90°)	2.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3
2.5°	543.8	542.3	544.3	543.5	542.9	541.7	541.1	540.5	539.3	538.4
5°	545.2	544.3	546.4	548.2	550.0	551.8	552.6	553.8	552.6	550.3
7.5°	532.8	532.2	536.6	542.0	550.0	556.8	564.2	568.3	568.6	567.7
10°	531.9	530.4	534.9	541.4	551.8	563.9	576.9	585.8	587.0	590.8
12.5°	545.8	544.3	550.6	557.7	568.3	581.1	597.1	609.5	611.3	616.6
15°	569.2	567.2	574.3	583.4	597.1	611.6	628.5	639.7	641.2	647.7
17.5°	596.5	594.4	602.7	612.5	627.3	647.1	666.7	679.1	680.9	685.0
20°	631.4	628.8	635.3	644.2	659.9	683.5	706.9	724.7	724.4	724.4
22.5°	672.0	667.8	673.5	680.6	695.4	724.1	755.2	776.2	776.2	768.0
25°	715.5	711.4	717.6	724.1	737.2	769.7	806.2	832.2	833.4	819.2
27.5°	770.0	764.7	769.4	777.1	784.8	818.0	861.2	891.5	892.0	870.1
30°	874.9	859.8	845.0	836.7	840.2	873.1	919.3	952.8	955.7	925.5
32.5°	1066.8	1063.8	1011.7	943.6	908.0	932.3	984.2	1024.4	1026.2	987.4
35°	1365.0	1361.5	1277.7	1147.9	1032.1	1011.7	1062.9	1110.6	1109.4	1065.6
37.5°	1721.0	1717.8	1607.3	1433.7	1246.3	1131.6	1164.5	1214.6	1222.0	1164.5
40°	2025.2	2013.0	1943.1	1775.8	1530.6	1330.7	1309.0	1342.2	1349.9	1281.8
42.5°	2255.6	2245.2	2209.7	2105.1	1874.7	1625.1	1479.3	1492.1	1500.7	1418.9
45°	2374.9	2372.6	2386.8	2377.0	2225.4	1986.4	1722.8	1669.8	1673.0	1570.9
47.5°	2391.8	2390.6	2455.5	2547.3	2526.9	2393.9	2035.2	1891.3	1879.8	1742.3
50°	2292.3	2289.9	2414.3	2586.4	2728.3	2736.3	2390.0	2141.0	2115.5	1919.7
52.5°	1974.5	1973.9	2178.3	2464.7	2799.0	3036.0	2740.7	2415.2	2372.6	2107.5
55°	1519.3	1530.3	1764.5	2103.1	2669.9	3180.2	3055.5	2719.7	2654.2	2296.5
57.5°	1076.3	1092.3	1323.9	1625.3	2269.5	3094.9	3268.5	3024.7	2954.2	2484.8
60°	578.1	592.3	824.2	1184.1	1688.4	2776.8	3380.7	3289.5	3222.9	2663.7
62.5°	344.4	349.2	445.1	764.4	1142.0	2121.4	3333.0	3491.2	3436.4	2813.9
65°	247.3	248.2	296.5	466.8	693.3	1288.9	2998.7	3587.7	3570.9	2927.0
67.5°	208.2	207.6	227.8	310.1	472.4	645.6	2298.2	3451.2	3522.9	2998.7
70°	178.6	179.5	203.2	227.2	355.1	365.5	1142.6	3004.9	3157.7	3017.6
72.5°	133.0	135.9	157.9	207.0	268.0	251.4	394.5	2228.0	2504.4	2843.2
75°	93.9	95.4	111.1	174.1	199.9	183.0	201.4	1151.8	1506.0	2179.8
77.5°	72.3	74.9	84.1	121.7	196.9	128.5	123.2	398.6	612.5	1316.7
80°	39.1	43.8	60.7	88.0	138.3	90.9	61.0	158.7	207.6	615.7
82.5°	20.1	22.5	42.4	63.4	78.8	79.4	30.2	66.0	85.6	190.1
85°	8.0	9.8	28.4	34.9	40.6	39.1	13.6	26.7	30.8	52.7
87.5°	1.8	3.0	10.4	8.0	7.7	8.3	3.3	6.2	5.9	6.2
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°
531.3	0°	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3
534.9	2.5°	534.6	533.4	530.1	526.6	522.4	520.1	518.6	518.3	516.2	514.7
546.7	5°	543.5	542.3	536.1	528.7	520.7	514.4	508.5	503.2	495.5	494.0
563.9	7.5°	561.2	558.0	547.9	537.8	522.7	504.7	482.7	457.6	435.1	428.3
586.7	10°	583.1	578.7	566.0	548.2	514.7	465.6	412.6	363.4	324.3	313.3
613.7	12.5°	608.0	604.2	587.3	554.4	481.3	392.1	311.0	250.0	212.1	202.6
642.4	15°	637.6	632.0	608.6	544.9	421.4	297.9	213.5	177.4	163.8	162.0
675.3	17.5°	669.0	659.9	627.6	510.9	340.9	211.8	165.0	154.6	148.7	146.9
708.4	20°	697.8	685.9	638.8	459.4	254.7	165.0	147.8	141.0	135.6	133.6
741.6	22.5°	726.5	709.6	638.8	389.2	191.0	146.3	135.6	129.4	123.2	120.5
777.1	25°	756.4	733.9	627.6	311.0	153.7	134.2	124.1	117.3	112.0	108.7
810.9	27.5°	785.4	754.3	601.8	236.9	136.8	123.5	113.4	106.9	101.9	99.5
847.6	30°	813.0	774.5	565.7	179.8	125.9	113.1	103.7	98.0	93.0	90.6
895.3	32.5°	850.3	799.9	527.2	147.5	116.4	103.4	94.8	89.4	85.0	83.2
957.2	35°	902.1	837.6	494.0	144.8	108.4	95.4	86.8	81.7	77.3	75.8
1037.2	37.5°	975.6	898.3	476.5	162.6	101.9	88.3	80.3	74.9	70.8	69.6
1138.8	40°	1066.2	980.6	486.0	180.4	97.4	82.0	74.3	69.0	65.5	64.0
1255.4	42.5°	1173.7	1082.2	538.4	194.0	94.5	76.7	68.7	62.8	60.4	59.8
1387.8	45°	1297.2	1193.8	618.7	208.5	89.7	71.7	63.1	58.6	56.9	56.6
1531.8	47.5°	1437.6	1316.4	711.7	226.6	85.0	66.9	58.6	55.7	54.2	53.6
1681.9	50°	1576.8	1439.9	807.3	236.6	81.1	62.5	55.1	52.7	51.5	51.2
1840.7	52.5°	1722.5	1567.0	884.6	227.2	77.9	58.9	52.1	50.3	49.2	48.9
1987.0	55°	1861.4	1669.8	898.0	192.8	71.4	55.4	48.9	48.0	46.5	46.5
2135.3	57.5°	1981.0	1721.3	803.8	141.6	64.9	50.1	45.6	44.7	43.5	43.2
2269.2	60°	2090.9	1706.5	620.5	95.4	57.8	44.7	41.5	40.9	39.7	38.2
2385.6	62.5°	2152.8	1641.3	424.4	62.2	50.6	39.1	36.7	36.4	33.8	30.8
2471.8	65°	2176.2	1507.5	264.8	45.3	42.4	33.5	31.7	31.1	27.2	24.0
2520.7	67.5°	2155.8	1287.1	133.6	35.8	33.5	27.8	26.1	26.1	23.4	20.4
2517.7	70°	2074.0	964.9	56.3	28.7	25.8	21.3	21.3	22.5	19.8	16.6
2387.1	72.5°	1896.6	649.2	29.9	21.9	19.3	15.1	17.5	18.4	15.7	12.4
1953.8	75°	1507.8	396.0	20.7	16.3	12.1	10.7	13.3	13.9	10.7	8.3
1339.6	77.5°	1031.2	227.5	13.9	10.4	7.7	6.2	9.2	8.6	5.6	3.9
516.5	80°	452.8	94.8	8.0	4.7	3.0	2.4	3.3	2.4	1.8	1.2
70.8	82.5°	53.0	22.2	3.0	1.8	1.2	0.6	0.3	0.0	0.0	0.0
21.6	85°	11.0	2.7	1.5	0.6	0.3	0.0	0.0	0.0	0.0	0.0
3.9	87.5°	2.1	0.6	0.3	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>
531.3
516.2
493.4
425.0
309.2
199.9
160.2
146.0
132.4
119.1
107.5
99.5
90.9
83.2
75.8
69.3
63.7
59.8
56.3
53.6
51.2
48.9
46.2
42.9
37.9
30.2
23.7
20.1
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8.0
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