

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: P945874

Luminaire Tested: **GALN-SB1C-940-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945874  
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-SB1C-940-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

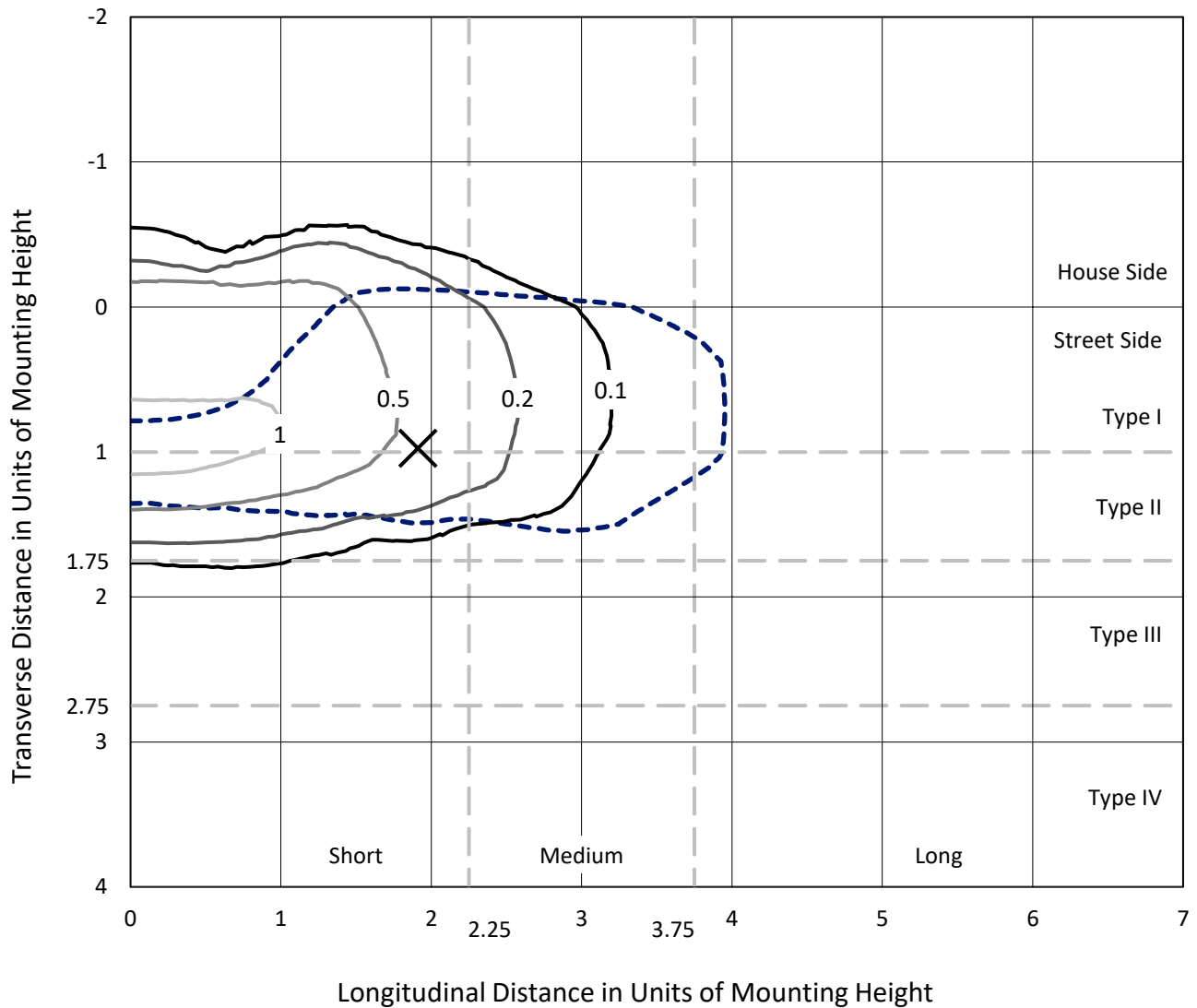
Lumens per Lamp: N/A  
Luminaire Lumens: 4149 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

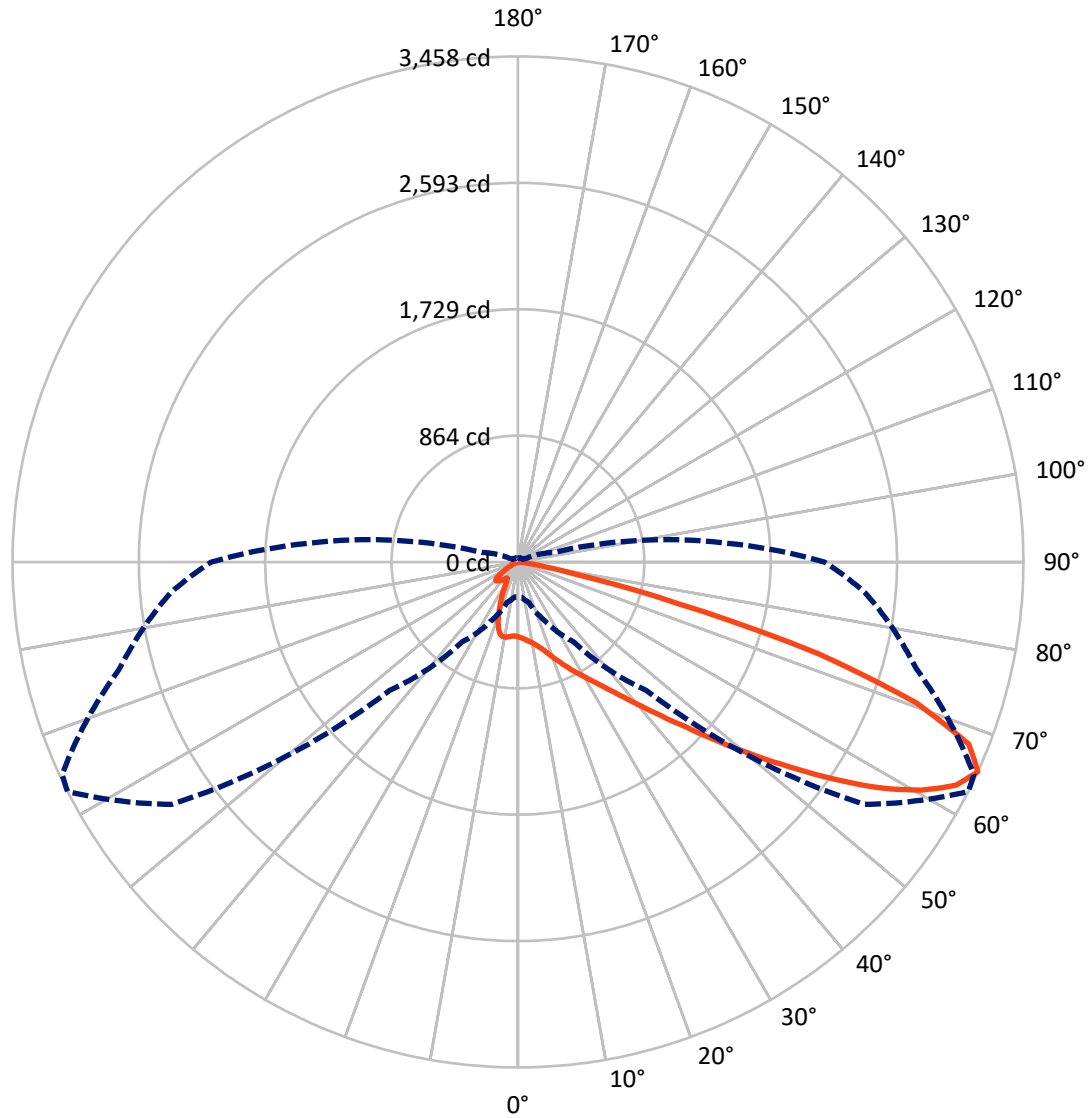
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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
<b>House Side</b>	Lumens	609.9	0.0	609.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	3539.1	0.0	3539.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	4149.0	0.0	4149.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	1.2
10°-20°	133.9	3.2
20°-30°	233.1	5.6
30°-40°	420.1	10.1
40°-50°	833.2	20.1
50°-60°	1135.0	27.4
60°-70°	906.0	21.8
70°-80°	410.0	9.9
80°-90°	29.5	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°	4149.0	100.0
0°-180°	4149.0	100.0

**Coefficient of Utilization**



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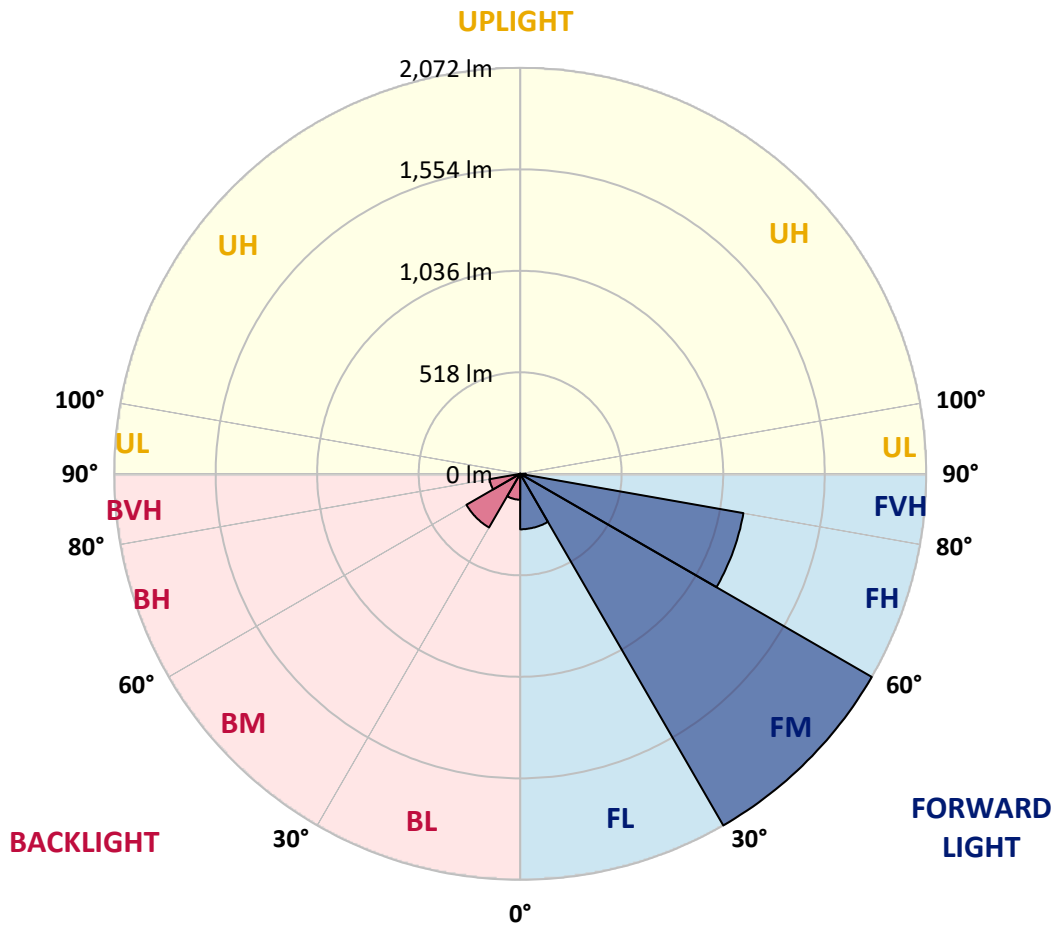
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.2	6.8			
FM (30°-60°)	2071.9	49.9			
FH (60°-80°)	1156.7	27.9			G1/1800
FVH (80°-90°)	27.3	0.7			G1/100
BL (0°-30°)	132.0	3.2	B1/500		
BM (30°-60°)	316.5	7.6	B1/1000		
BH (60°-80°)	159.2	3.8	B1/500		G1/500
BVH (80°-90°)	2.2	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°	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1
2.5°	524.1	522.6	524.6	523.8	523.2	522.1	521.5	520.9	519.8	518.9
5°	525.5	524.6	526.6	528.3	530.0	531.8	532.6	533.8	532.6	530.3
7.5°	513.5	512.9	517.2	522.3	530.0	536.6	543.7	547.7	548.0	547.2
10°	512.6	511.2	515.5	521.8	531.8	543.5	556.0	564.6	565.7	569.4
12.5°	526.1	524.6	530.6	537.5	547.7	560.0	575.4	587.4	589.1	594.3
15°	548.6	546.6	553.5	562.3	575.4	589.4	605.7	616.5	618.0	624.2
17.5°	574.9	572.9	580.9	590.3	604.5	623.7	642.5	654.5	656.2	660.2
20°	608.5	606.0	612.3	620.8	635.9	658.8	681.3	698.5	698.2	698.2
22.5°	647.6	643.6	649.1	655.9	670.2	697.9	727.9	748.1	748.1	740.1
25°	689.6	685.6	691.6	697.9	710.4	741.8	776.9	802.1	803.2	789.5
27.5°	742.1	737.0	741.6	749.0	756.4	788.4	830.0	859.2	859.7	838.6
30°	843.2	828.6	814.3	806.3	809.8	841.5	886.0	918.2	921.1	892.0
32.5°	1028.1	1025.3	975.0	909.4	875.1	898.5	948.5	987.3	989.0	951.6
35°	1315.6	1312.1	1231.4	1106.3	994.7	975.0	1024.4	1070.4	1069.2	1027.0
37.5°	1658.6	1655.5	1549.0	1381.8	1201.1	1090.6	1122.3	1170.6	1177.7	1122.3
40°	1951.8	1940.1	1872.7	1711.5	1475.1	1282.4	1261.6	1293.6	1301.0	1235.3
42.5°	2173.9	2163.9	2129.6	2028.9	1806.8	1566.2	1425.7	1438.0	1446.3	1367.5
45°	2288.9	2286.6	2300.3	2290.9	2144.7	1914.4	1660.4	1609.3	1612.4	1513.9
47.5°	2305.1	2304.0	2366.5	2455.0	2435.3	2307.1	1961.5	1822.8	1811.6	1679.2
50°	2209.2	2207.0	2326.8	2492.7	2629.4	2637.1	2303.4	2063.4	2038.8	1850.2
52.5°	1903.0	1902.4	2099.4	2375.4	2697.6	2926.0	2641.4	2327.7	2286.6	2031.1
55°	1464.3	1474.8	1700.6	2026.9	2573.2	3065.0	2944.8	2621.1	2558.0	2213.2
57.5°	1037.3	1052.7	1275.9	1566.5	2187.3	2982.8	3150.0	2915.1	2847.2	2394.8
60°	557.2	570.9	794.4	1141.2	1627.2	2676.2	3258.2	3170.3	3106.1	2567.2
62.5°	332.0	336.5	429.0	736.7	1100.6	2044.5	3212.3	3364.7	3311.9	2711.9
65°	238.3	239.2	285.7	449.8	668.2	1242.2	2890.0	3457.7	3441.5	2820.9
67.5°	200.7	200.1	219.5	298.8	455.3	622.2	2215.0	3326.1	3395.2	2890.0
70°	172.1	173.0	195.8	218.9	342.2	352.2	1101.2	2896.0	3043.3	2908.3
72.5°	128.2	131.0	152.1	199.5	258.3	242.3	380.2	2147.3	2413.6	2740.1
75°	90.5	91.9	107.0	167.8	192.7	176.4	194.1	1110.0	1451.4	2100.8
77.5°	69.6	72.2	81.1	117.3	189.8	123.9	118.7	384.2	590.3	1269.0
80°	37.7	42.2	58.5	84.8	133.3	87.6	58.8	153.0	200.1	593.4
82.5°	19.4	21.7	40.8	61.1	75.9	76.5	29.1	63.7	82.5	183.2
85°	7.7	9.4	27.4	33.7	39.1	37.7	13.1	25.7	29.7	50.8
87.5°	1.7	2.9	10.0	7.7	7.4	8.0	3.1	6.0	5.7	6.0
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°
512.1	0°	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1
515.5	2.5°	515.2	514.1	510.9	507.5	503.5	501.2	499.8	499.5	497.5	496.1
526.9	5°	523.8	522.6	516.6	509.5	501.8	495.8	490.1	484.9	477.5	476.1
543.5	7.5°	540.9	537.8	528.0	518.3	503.8	486.4	465.3	441.0	419.3	412.7
565.4	10°	562.0	557.7	545.5	528.3	496.1	448.7	397.6	350.2	312.5	302.0
591.4	12.5°	586.0	582.3	566.0	534.3	463.8	377.9	299.7	240.9	204.4	195.2
619.1	15°	614.5	609.1	586.6	525.2	406.2	287.1	205.8	171.0	157.8	156.1
650.8	17.5°	644.8	635.9	604.8	492.4	328.5	204.1	159.0	149.0	143.3	141.6
682.8	20°	672.5	661.1	615.7	442.7	245.5	159.0	142.4	135.9	130.7	128.7
714.7	22.5°	700.2	683.9	615.7	375.1	184.1	141.0	130.7	124.7	118.7	116.2
749.0	25°	729.0	707.3	604.8	299.7	148.1	129.3	119.6	113.0	107.9	104.8
781.5	27.5°	757.0	727.0	580.0	228.3	131.9	119.0	109.3	103.0	98.2	95.9
816.9	30°	783.5	746.4	545.2	173.3	121.3	109.0	99.9	94.5	89.6	87.3
862.9	32.5°	819.5	771.0	508.1	142.1	112.2	99.6	91.3	86.2	81.9	80.2
922.5	35°	869.4	807.2	476.1	139.6	104.5	91.9	83.6	78.8	74.5	73.1
999.6	37.5°	940.2	865.7	459.3	156.7	98.2	85.1	77.4	72.2	68.2	67.1
1097.5	40°	1027.6	945.1	468.4	173.8	93.9	79.1	71.6	66.5	63.1	61.7
1209.9	42.5°	1131.2	1043.0	518.9	187.0	91.1	73.9	66.2	60.5	58.2	57.7
1337.5	45°	1250.2	1150.6	596.3	200.9	86.5	69.1	60.8	56.5	54.8	54.5
1476.3	47.5°	1385.5	1268.7	685.9	218.4	81.9	64.5	56.5	53.7	52.2	51.7
1621.0	50°	1519.6	1387.8	778.1	228.1	78.2	60.2	53.1	50.8	49.7	49.4
1774.0	52.5°	1660.1	1510.2	852.6	218.9	75.1	56.8	50.2	48.5	47.4	47.1
1915.0	55°	1793.9	1609.3	865.4	185.8	68.8	53.4	47.1	46.2	44.8	44.8
2058.0	57.5°	1909.3	1658.9	774.7	136.4	62.5	48.2	44.0	43.1	42.0	41.7
2187.0	60°	2015.1	1644.7	598.0	91.9	55.7	43.1	40.0	39.4	38.2	36.8
2299.2	62.5°	2074.8	1581.9	409.0	59.9	48.8	37.7	35.4	35.1	32.5	29.7
2382.2	65°	2097.4	1452.8	255.2	43.7	40.8	32.3	30.5	30.0	26.3	23.1
2429.3	67.5°	2077.7	1240.5	128.7	34.5	32.3	26.8	25.1	25.1	22.5	19.7
2426.5	70°	1998.9	929.9	54.2	27.7	24.8	20.6	20.6	21.7	19.1	16.0
2300.6	72.5°	1827.9	625.7	28.8	21.1	18.6	14.6	16.8	17.7	15.1	12.0
1883.0	75°	1453.1	381.6	20.0	15.7	11.7	10.3	12.8	13.4	10.3	8.0
1291.0	77.5°	993.9	219.2	13.4	10.0	7.4	6.0	8.8	8.3	5.4	3.7
497.8	80°	436.4	91.3	7.7	4.6	2.9	2.3	3.1	2.3	1.7	1.1
68.2	82.5°	51.1	21.4	2.9	1.7	1.1	0.6	0.3	0.0	0.0	0.0
20.8	85°	10.6	2.6	1.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0
3.7	87.5°	2.0	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>
512.1
497.5
475.5
409.6
298.0
192.7
154.4
140.7
127.6
114.7
103.6
95.9
87.6
80.2
73.1
66.8
61.4
57.7
54.2
51.7
49.4
47.1
44.5
41.4
36.5
29.1
22.8
19.4
15.7
12.0
7.7
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1.1
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