

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: P939101

Luminaire Tested: **GALN-SB1C-750-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939101  
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-750-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

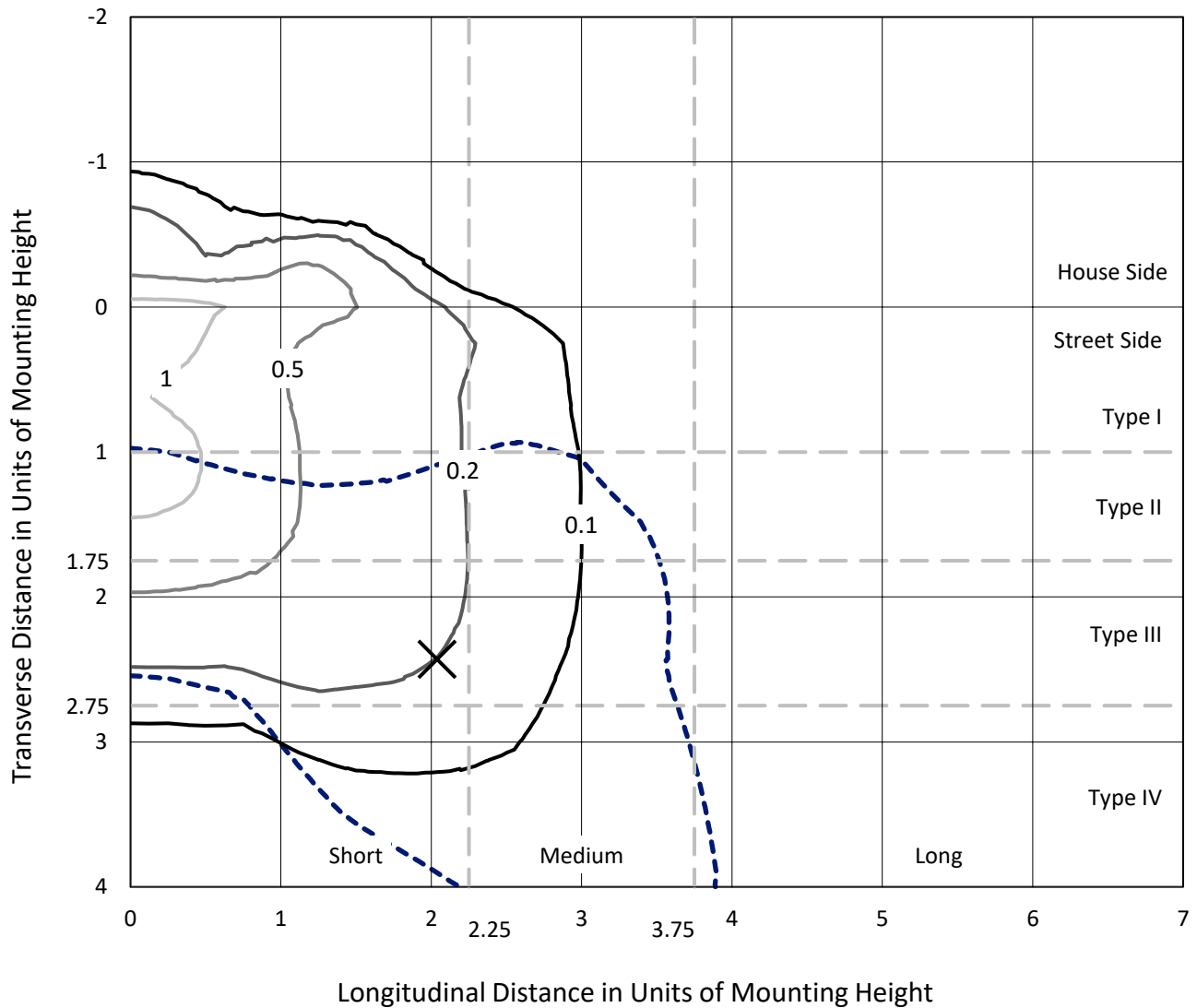
Lumens per Lamp: N/A  
Luminaire Lumens: 5533 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

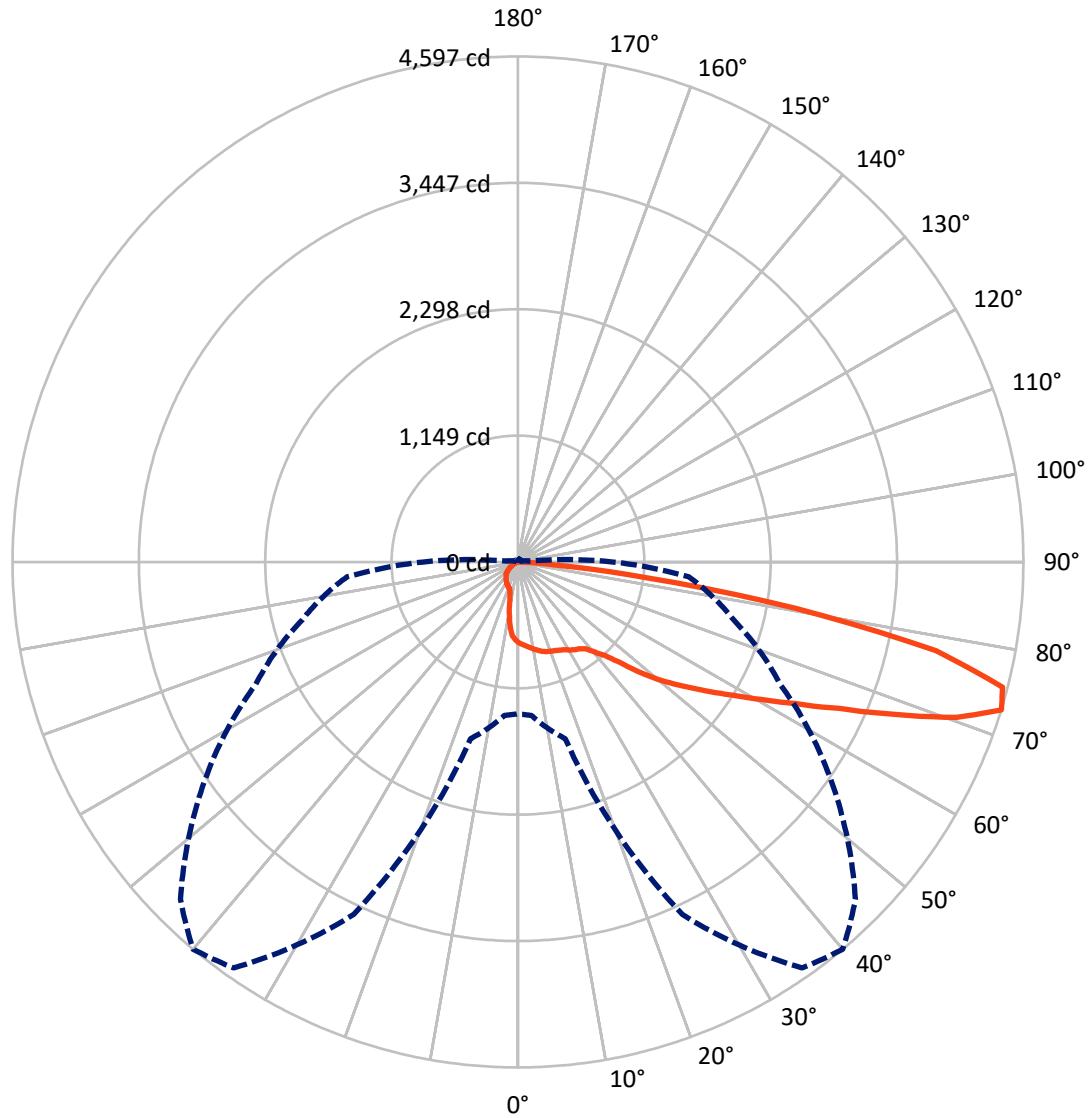
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	714.5	0.0	714.5
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	4818.5	0.0	4818.5
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	5533.0	0.0	5533.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.9	1.2
10°-20°	181.7	3.3
20°-30°	294.0	5.3
30°-40°	434.1	7.8
40°-50°	730.5	13.2
50°-60°	1134.3	20.5
60°-70°	1419.3	25.7
70°-80°	1162.0	21.0
80°-90°	110.2	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°	5533.0	100.0
0°-180°	5533.0	100.0

**Coefficient of Utilization**



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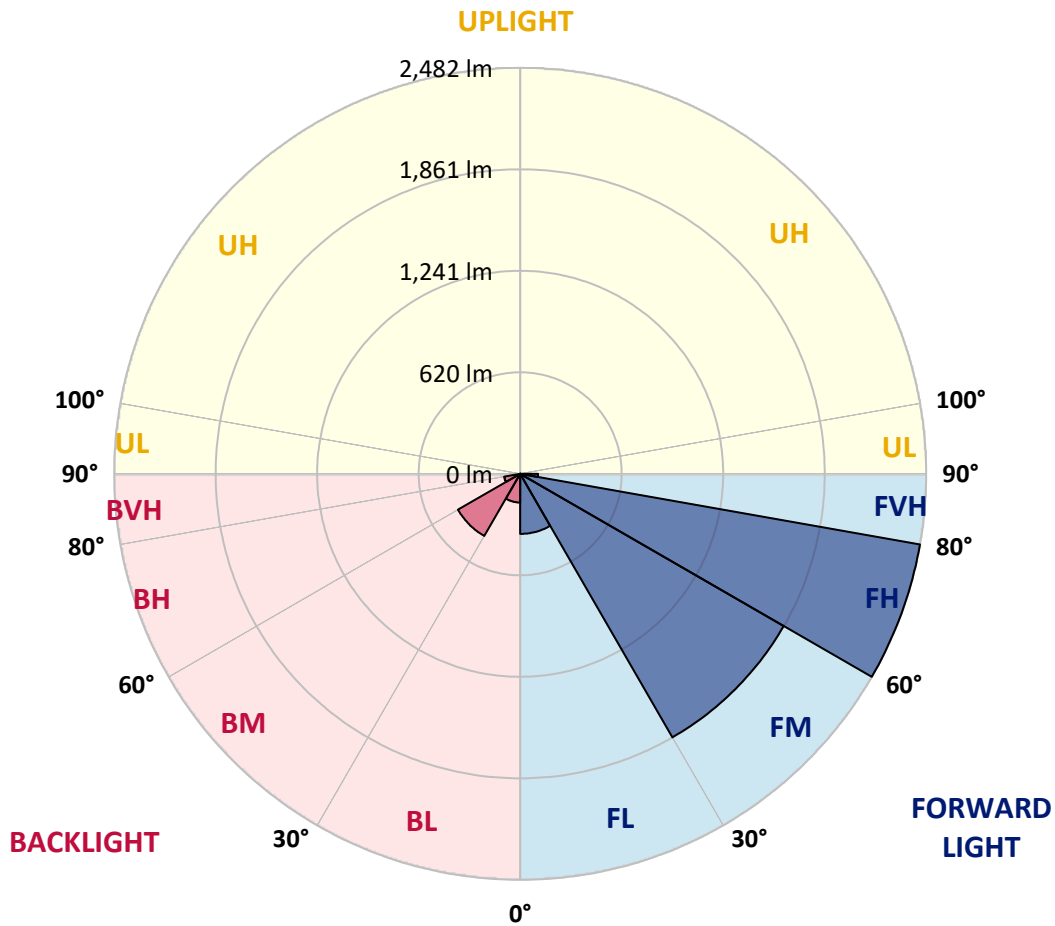
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	367.2	6.6			
FM (30°-60°)	1860.1	33.6			
FH (60°-80°)	2481.8	44.9			G2/5000
FVH (80°-90°)	109.3	2.0			G2/225
BL (0°-30°)	175.4	3.2	B1/500		
BM (30°-60°)	438.8	7.9	B1/1000		
BH (60°-80°)	99.5	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°	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
2.5°	754.7	757.6	756.0	752.6	751.8	750.1	748.0	747.2	744.3	741.8
5°	776.0	778.9	776.8	772.2	770.1	768.0	765.1	762.6	756.8	751.4
7.5°	799.3	801.8	799.3	792.6	789.3	786.8	782.6	778.9	772.2	764.3
10°	825.1	827.2	823.5	814.7	809.3	805.5	801.8	797.6	791.4	782.6
12.5°	849.3	851.8	846.0	835.5	829.3	825.5	821.4	818.0	811.8	803.5
15°	871.4	875.1	865.1	853.9	846.8	843.9	839.7	837.6	833.5	827.6
17.5°	888.1	890.6	880.1	866.8	858.9	856.8	853.9	855.1	854.3	851.4
20°	902.2	903.9	890.1	873.9	865.1	865.6	864.7	868.9	870.6	870.6
22.5°	919.7	920.1	902.6	882.2	871.8	874.7	876.0	880.6	883.9	887.2
25°	942.6	941.8	921.0	893.1	883.9	888.1	891.0	892.6	896.4	901.8
27.5°	976.8	974.3	947.6	910.6	899.7	903.5	908.9	908.1	906.4	910.6
30°	1020.2	1016.8	981.4	935.1	925.1	928.5	930.1	922.6	910.6	914.3
32.5°	1088.9	1083.1	1033.9	962.6	947.2	951.0	948.9	933.5	915.6	919.3
35°	1208.5	1194.4	1124.8	1020.2	972.2	968.1	963.1	948.1	926.0	922.2
37.5°	1462.7	1437.7	1319.0	1132.3	1028.9	1001.8	986.4	971.4	937.2	922.2
40°	1749.4	1724.0	1586.9	1319.8	1123.1	1077.3	1040.6	998.9	948.9	927.6
42.5°	2048.7	2020.7	1879.9	1552.3	1257.7	1163.5	1095.2	1021.0	968.1	944.3
45°	2382.9	2347.9	2163.7	1794.9	1453.1	1306.9	1183.1	1066.4	1001.4	973.9
47.5°	2735.4	2690.0	2446.6	2030.3	1663.6	1505.2	1344.0	1147.7	1050.6	1018.1
50°	3048.0	3003.0	2738.8	2276.6	1860.3	1694.0	1527.3	1260.2	1124.3	1080.6
52.5°	3272.6	3238.4	3004.6	2530.8	2064.9	1871.1	1693.6	1391.0	1217.7	1160.6
55°	3423.0	3391.8	3193.0	2771.7	2302.9	2066.2	1857.4	1533.2	1330.2	1256.4
57.5°	3514.3	3496.4	3329.3	2986.7	2538.7	2279.5	2044.9	1689.4	1462.7	1369.4
60°	3546.8	3532.2	3413.9	3191.7	2823.8	2535.8	2265.4	1865.7	1623.6	1497.7
62.5°	3460.1	3463.0	3474.7	3434.7	3124.2	2835.9	2529.6	2077.4	1801.9	1643.2
65°	3052.1	3076.3	3298.0	3703.9	3522.2	3211.8	2865.9	2335.8	2006.1	1808.6
67.5°	2527.1	2562.1	2837.9	3861.4	3946.4	3699.7	3334.3	2665.0	2249.5	1977.0
70°	1934.5	1972.0	2306.2	3828.5	4343.6	4233.2	3913.5	3083.8	2501.6	2093.7
72.5°	1380.6	1399.8	1663.2	3535.6	4506.5	4596.5	4340.3	3480.5	2630.4	2029.1
75°	970.2	966.8	1141.4	2847.1	4252.7	4552.4	4190.7	3265.9	2380.4	1611.9
77.5°	422.6	423.4	570.1	1729.0	3394.3	3888.1	3483.5	2045.7	1659.4	854.3
80°	109.6	112.9	209.2	688.4	2043.7	2566.2	2124.5	899.3	766.8	208.4
82.5°	38.8	41.3	96.3	216.3	753.9	1176.8	946.0	287.5	200.0	59.6
85°	11.3	13.3	51.7	66.3	155.9	332.6	229.6	55.8	49.2	30.8
87.5°	0.0	1.7	10.4	9.2	9.2	6.3	11.7	6.3	7.9	3.8
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°
732.6	0°	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
738.9	2.5°	736.4	733.4	727.2	720.5	714.3	708.4	706.8	700.5	697.6	698.0
744.7	5°	740.1	734.7	722.6	708.0	693.0	675.9	661.8	641.8	624.7	622.6
756.0	7.5°	750.1	741.4	721.8	693.4	655.9	608.8	565.1	521.7	497.2	483.8
772.6	10°	765.5	753.9	723.9	669.7	590.1	505.9	439.7	385.1	357.1	344.2
793.0	12.5°	783.9	771.0	727.2	629.3	505.1	394.6	323.0	289.6	283.8	283.0
818.0	15°	809.7	795.5	730.9	574.7	413.0	300.5	267.5	268.0	272.5	275.0
845.1	17.5°	838.5	824.3	725.5	508.0	322.1	256.7	255.9	259.6	266.3	268.8
870.1	20°	867.6	854.3	706.4	429.7	260.5	244.6	248.0	252.1	258.8	262.1
894.7	22.5°	897.6	886.0	675.9	346.3	235.0	235.9	240.0	244.2	251.7	255.5
918.9	25°	929.7	919.7	635.5	277.5	224.2	226.7	232.1	237.1	245.0	249.6
939.3	27.5°	962.2	954.7	589.7	231.7	214.2	217.1	223.4	230.0	238.0	243.4
957.2	30°	997.7	993.5	553.0	214.6	204.6	207.1	214.2	221.7	230.5	237.1
975.2	32.5°	1033.9	1033.1	535.1	227.1	195.9	197.5	203.8	211.3	222.1	230.5
990.2	35°	1069.7	1071.4	524.7	262.5	192.9	188.4	192.5	199.2	212.1	222.5
1007.2	37.5°	1115.6	1119.8	524.2	300.9	200.0	179.2	182.1	186.7	197.9	210.0
1033.9	40°	1183.9	1206.0	550.9	333.8	212.5	170.9	171.7	172.5	178.4	188.4
1069.3	42.5°	1274.8	1339.4	647.2	356.3	217.5	163.4	160.4	155.9	155.0	160.4
1117.7	45°	1387.7	1500.7	816.4	368.8	212.5	155.0	147.1	135.0	130.4	134.2
1183.1	47.5°	1520.7	1677.3	1016.8	371.7	204.2	144.6	130.4	114.6	110.9	112.1
1271.0	50°	1650.3	1809.9	1193.1	347.6	190.4	131.3	112.1	98.8	96.3	96.7
1374.8	52.5°	1764.9	1855.3	1243.1	290.5	172.1	115.0	96.3	87.1	85.4	85.4
1489.4	55°	1840.7	1806.1	1108.5	222.1	149.2	98.3	82.5	77.9	77.1	76.7
1617.3	57.5°	1856.5	1646.1	837.2	160.4	116.7	82.9	73.3	70.8	69.2	67.5
1748.6	60°	1799.9	1379.4	533.0	112.1	87.5	70.8	65.0	63.3	60.0	56.7
1872.0	62.5°	1677.3	1041.8	295.0	77.9	70.4	60.4	57.5	55.4	49.2	43.8
1969.9	65°	1512.7	692.6	130.4	60.8	57.5	50.8	49.2	46.3	38.8	32.5
2007.0	67.5°	1347.3	398.8	58.8	48.8	46.3	41.7	40.4	38.3	32.9	27.1
1912.4	70°	1158.5	202.1	40.4	38.8	35.8	31.7	32.9	32.5	27.1	22.1
1559.8	72.5°	862.6	100.4	30.4	29.2	25.8	22.5	27.1	26.7	21.3	16.7
961.8	75°	488.4	49.6	22.1	20.4	15.4	16.7	21.7	20.4	14.6	10.8
405.9	77.5°	193.8	25.4	14.6	12.5	9.2	11.3	15.8	13.8	7.5	4.6
77.5	80°	44.6	12.5	7.5	5.4	4.2	6.7	8.3	5.0	2.1	0.4
20.8	82.5°	12.5	5.4	2.5	2.1	2.1	2.5	2.1	0.8	0.0	0.0
5.4	85°	4.2	2.5	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0
1.7	87.5°	1.7	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>
732.6
697.6
621.3
483.0
341.7
282.5
274.6
268.4
262.1
255.5
249.6
243.8
238.0
231.3
224.2
212.1
191.7
163.4
134.2
111.7
96.7
85.0
75.8
66.7
55.4
42.1
31.3
26.3
21.3
15.8
10.0
4.2
0.0
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0.0
0.0

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