

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: P946464

Luminaire Tested: **GALN-SB2A-835-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2A-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

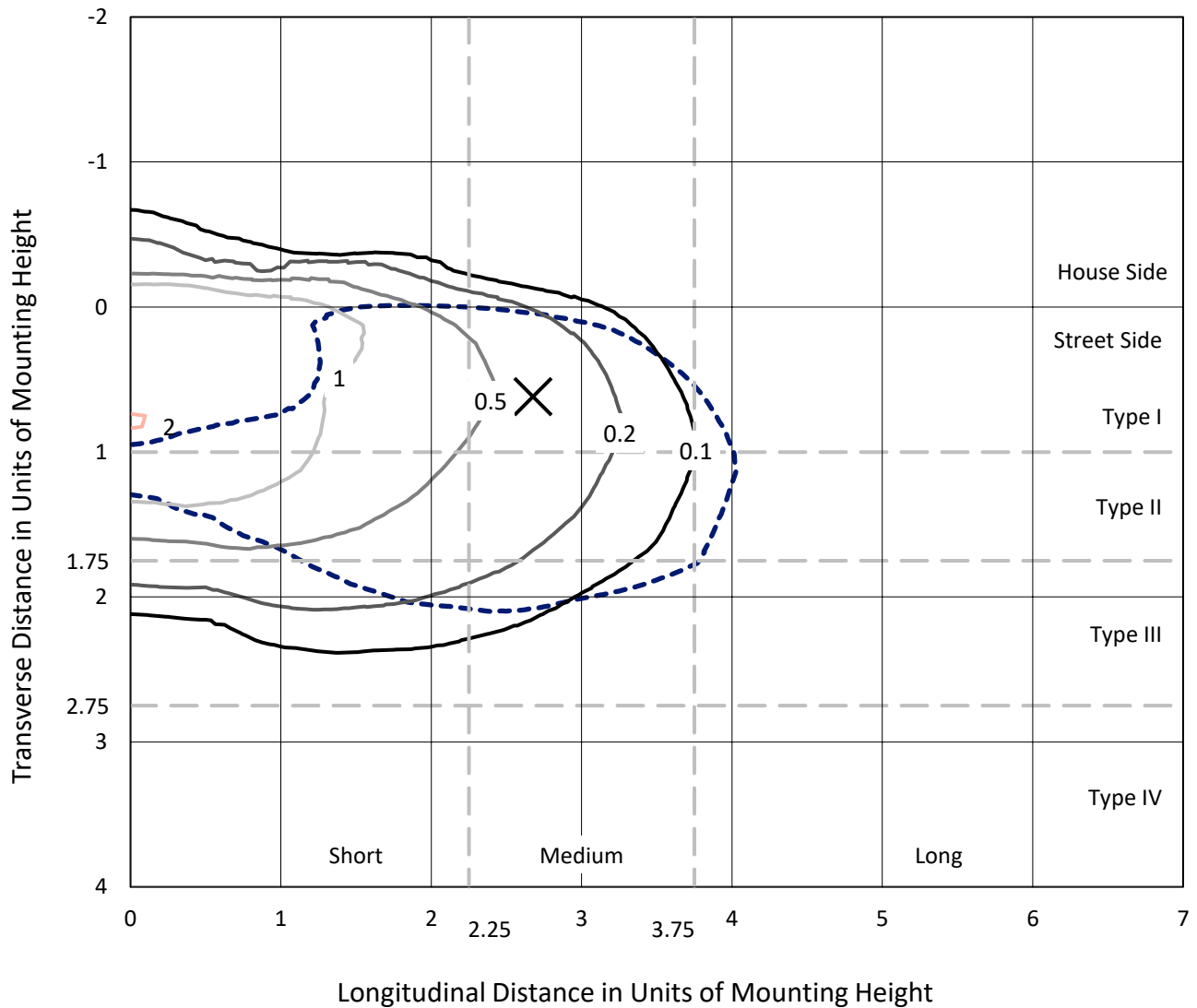
Lumens per Lamp: N/A  
Luminaire Lumens: 6927 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

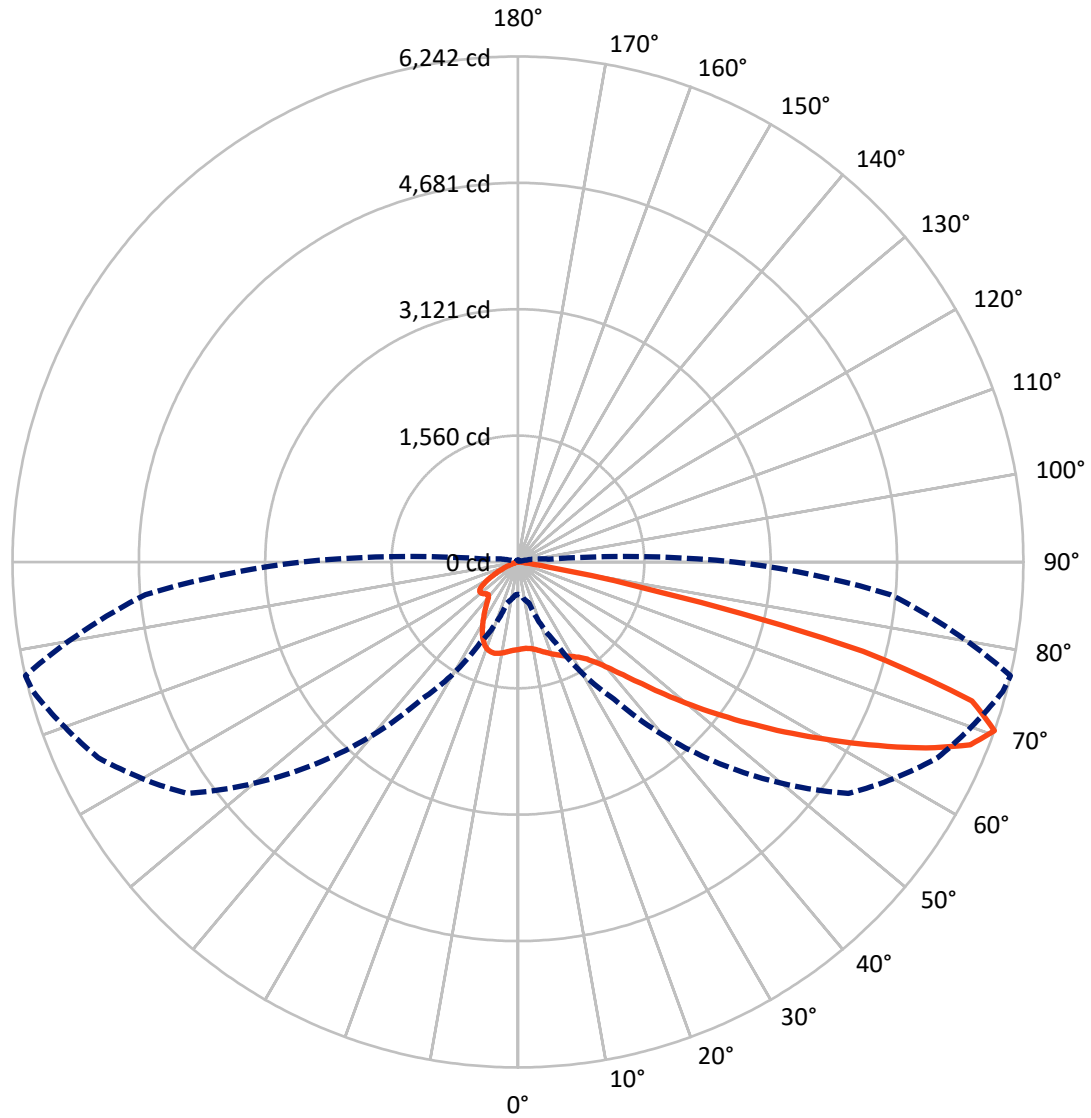
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	730.2	0.0	730.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6196.8	0.0	6196.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6927.0	0.0	6927.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	1.3
10°-20°	221.1	3.2
20°-30°	341.9	4.9
30°-40°	620.4	9.0
40°-50°	1171.1	16.9
50°-60°	1692.2	24.4
60°-70°	1801.3	26.0
70°-80°	954.5	13.8
80°-90°	31.3	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°	6927.0	100.0
0°-180°	6927.0	100.0

**Coefficient of Utilization**



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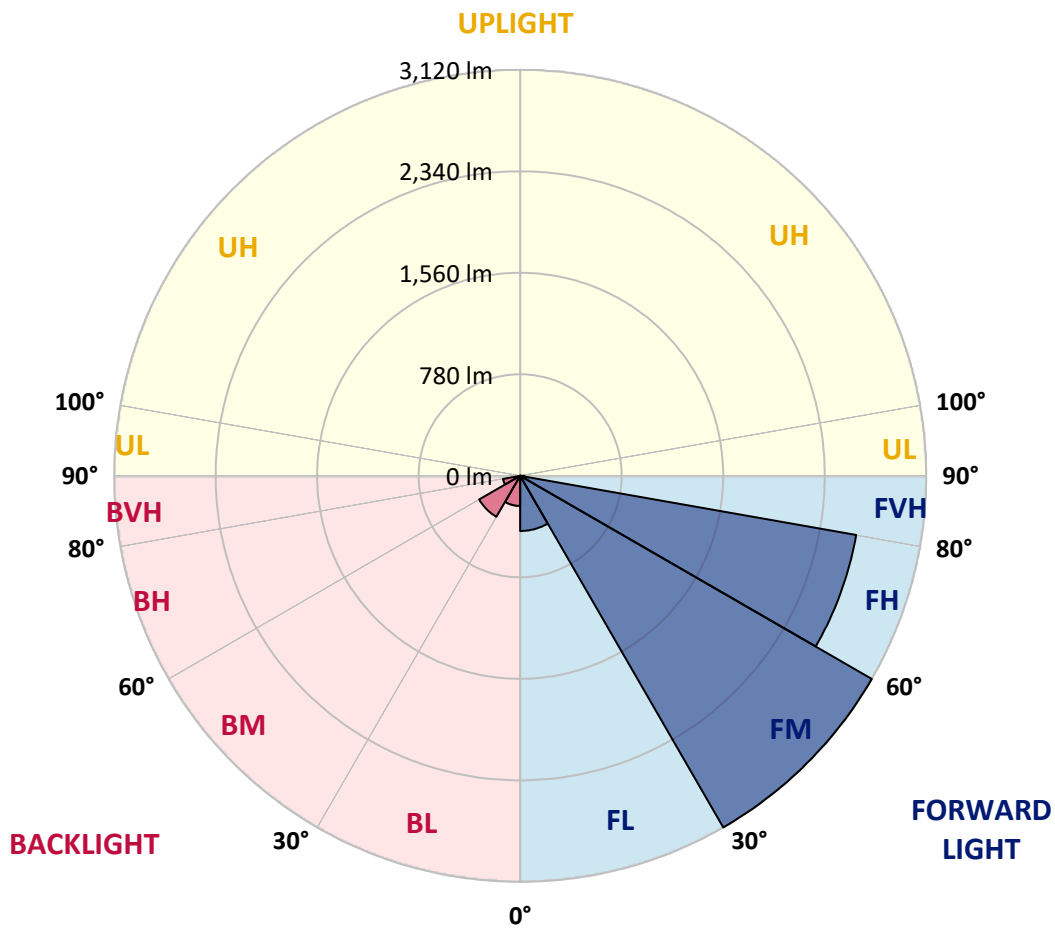
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.1	6.1			
FM (30°-60°)	3120.2	45.0			
FH (60°-80°)	2622.0	37.9			G2/5000
FVH (80°-90°)	30.5	0.4			G1/100
BL (0°-30°)	232.0	3.3	B1/500		
BM (30°-60°)	363.5	5.2	B1/1000		
BH (60°-80°)	133.9	1.9	B1/500		G1/500
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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1014.4	1023.6	1022.3	1028.4	1030.6	1039.4	1048.1	1059.9	1073.1	1072.6
5°	957.1	966.3	968.5	976.8	987.3	1000.9	1018.8	1042.4	1066.9	1070.9
7.5°	889.3	898.9	904.6	921.3	940.5	968.5	997.8	1032.4	1073.1	1078.7
10°	821.5	830.3	837.7	861.3	891.9	933.5	981.2	1031.1	1085.7	1094.0
12.5°	779.5	787.8	796.1	816.7	854.8	905.5	970.3	1037.2	1106.7	1118.5
15°	764.7	772.1	778.7	797.0	832.5	890.2	968.1	1049.9	1133.4	1149.2
17.5°	766.8	770.8	775.2	789.1	823.7	883.2	972.0	1071.7	1164.9	1178.9
20°	779.5	781.7	782.2	791.8	822.4	882.3	979.9	1092.7	1194.7	1213.5
22.5°	795.7	796.6	795.7	802.3	830.7	888.9	990.4	1118.1	1227.9	1245.4
25°	871.4	854.8	833.8	821.1	844.7	901.6	1006.1	1152.2	1264.2	1281.3
27.5°	1106.3	1058.6	983.4	898.9	873.6	919.9	1028.0	1186.8	1301.0	1316.3
30°	1487.7	1425.2	1297.5	1107.2	966.3	958.4	1056.4	1221.3	1339.9	1356.5
32.5°	1870.1	1854.8	1707.3	1444.0	1175.0	1044.2	1103.7	1268.2	1391.5	1404.6
35°	2256.8	2225.7	2105.0	1844.7	1496.5	1218.7	1182.4	1329.4	1459.3	1474.2
37.5°	2552.9	2534.1	2459.3	2245.0	1877.9	1488.2	1317.1	1424.3	1557.7	1574.4
40°	2814.5	2805.8	2780.4	2639.1	2304.5	1840.8	1526.7	1571.3	1694.2	1713.9
42.5°	3020.1	3040.7	3055.1	3015.7	2744.1	2243.2	1808.4	1777.8	1884.5	1904.6
45°	3230.5	3237.5	3295.7	3352.6	3180.7	2664.0	2126.0	2019.7	2121.2	2146.1
47.5°	3365.7	3393.7	3496.1	3596.2	3547.7	3081.4	2467.2	2305.3	2395.4	2442.3
50°	3375.8	3428.7	3569.5	3744.1	3814.9	3478.6	2838.1	2630.8	2726.6	2778.2
52.5°	3208.2	3290.5	3508.7	3764.2	3959.3	3814.9	3221.8	2956.2	3079.2	3146.5
55°	2459.7	2567.4	3280.0	3654.8	3965.0	4070.0	3595.4	3295.3	3472.0	3548.1
57.5°	2143.0	2197.3	2578.7	3465.0	3859.6	4172.8	3933.1	3618.1	3899.4	3993.9
60°	1783.0	1854.3	2162.7	3154.4	3716.5	4182.8	4231.4	4034.5	4362.6	4468.9
62.5°	1211.7	1289.1	1595.8	2620.7	3521.0	4178.0	4475.9	4463.2	4877.5	4991.7
65°	750.7	799.2	1001.3	2140.0	3247.6	4183.3	4731.8	4983.8	5420.8	5536.7
67.5°	593.2	615.5	720.9	1643.0	2776.5	4065.2	4987.3	5473.3	5932.2	6024.0
70°	398.5	412.1	524.5	1101.5	2065.6	3520.1	4982.5	5719.1	6195.5	6241.5
72.5°	210.0	220.5	306.6	510.1	1247.6	2502.2	4199.9	5425.2	5933.5	5864.4
75°	105.0	122.5	206.5	259.0	532.8	1395.4	2608.0	4277.3	4670.2	4402.4
77.5°	79.6	96.2	170.6	170.6	185.5	469.8	1104.5	2332.9	2151.8	1791.8
80°	50.7	65.6	149.2	129.0	77.4	119.4	287.8	653.5	457.1	347.8
82.5°	29.7	42.9	124.2	85.3	43.3	44.2	81.4	139.1	118.5	92.3
85°	11.8	28.0	85.3	33.7	17.1	10.9	24.5	29.7	24.5	18.4
87.5°	0.0	6.6	14.9	0.0	1.3	0.9	1.7	2.2	2.2	1.7
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°
1080.5	0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
1081.4	2.5°	1085.3	1086.2	1088.8	1089.2	1083.1	1075.2	1072.2	1070.9	1065.6	1065.2
1088.4	5°	1098.4	1102.4	1098.4	1087.0	1059.9	1021.9	993.0	969.4	947.9	941.4
1112.4	7.5°	1124.7	1128.6	1116.8	1072.2	1003.9	928.3	860.0	811.9	768.6	752.4
1141.7	10°	1162.3	1167.5	1130.4	1040.2	919.5	797.9	682.4	601.0	537.6	511.8
1181.5	12.5°	1209.5	1211.7	1137.8	991.7	809.7	636.0	472.4	385.4	329.0	308.0
1229.7	15°	1261.6	1258.5	1138.7	925.6	660.1	449.7	308.4	253.3	230.5	223.5
1277.8	17.5°	1316.3	1303.6	1121.2	830.3	496.1	307.5	228.8	215.7	211.7	210.0
1325.5	20°	1370.1	1341.6	1089.2	705.6	356.1	229.7	207.8	203.8	201.7	200.8
1373.6	22.5°	1419.1	1370.5	1034.6	560.8	258.5	203.0	196.4	192.9	189.0	187.2
1420.4	25°	1466.8	1387.1	957.6	425.6	206.9	189.9	184.6	178.0	172.8	170.6
1470.7	27.5°	1513.1	1397.6	861.3	315.0	184.6	177.6	168.0	158.8	154.9	154.0
1524.5	30°	1562.6	1401.1	752.0	234.9	171.0	162.3	148.3	137.8	135.6	136.0
1597.1	32.5°	1622.9	1406.4	641.7	192.5	159.7	143.9	127.3	116.4	114.6	116.4
1703.0	35°	1695.1	1416.9	535.4	177.2	149.6	125.1	107.2	98.0	96.2	97.6
1838.6	37.5°	1793.1	1433.9	436.1	174.1	141.3	109.4	90.1	82.7	82.7	83.1
2004.8	40°	1923.4	1479.4	347.3	171.9	136.9	97.6	76.1	73.1	74.4	75.2
2216.5	42.5°	2082.2	1576.1	287.4	169.3	132.1	92.3	69.1	67.8	70.0	70.9
2470.2	45°	2260.3	1698.6	266.4	164.9	127.7	95.8	66.1	64.3	66.9	67.4
2754.6	47.5°	2444.4	1818.5	263.8	160.1	123.4	101.0	65.2	61.2	64.3	64.7
3058.2	50°	2630.8	1896.8	266.4	152.7	116.4	101.0	65.6	58.2	60.8	62.1
3373.1	52.5°	2818.5	1932.6	264.7	136.5	104.1	94.9	65.6	55.6	58.2	59.1
3713.5	55°	3000.4	1925.6	238.0	112.4	88.4	84.0	63.9	53.4	55.1	55.6
4035.0	57.5°	3144.3	1828.1	188.5	87.5	71.7	70.0	58.2	50.7	52.1	51.6
4329.8	60°	3219.6	1613.7	134.7	67.4	56.4	55.1	51.2	47.2	48.1	45.9
4579.6	62.5°	3220.5	1330.3	90.1	53.4	45.1	43.7	43.7	42.4	41.6	37.2
4773.0	65°	3151.8	1015.7	59.9	42.4	36.3	34.1	36.7	36.3	33.2	27.1
4832.0	67.5°	2996.1	665.8	45.5	33.2	28.0	26.7	29.3	30.6	28.4	22.7
4616.8	70°	2675.8	387.6	37.6	25.8	21.0	19.7	23.6	26.2	23.6	18.4
3946.2	72.5°	2222.7	209.1	30.6	19.2	14.4	13.1	18.8	21.4	18.8	13.6
2531.9	75°	1442.3	112.0	23.6	12.7	7.4	8.3	14.0	15.7	13.1	8.7
743.2	77.5°	484.3	49.4	14.9	6.1	3.5	3.5	8.3	9.6	6.1	3.1
135.2	80°	108.0	20.6	6.1	2.6	1.3	1.3	1.7	1.7	0.9	0.0
41.6	82.5°	35.4	8.3	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
10.5	85°	13.6	3.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.5	87.5°	5.2	0.4	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>
1080.5
1066.1
937.4
745.8
500.9
301.4
223.5
209.5
199.9
186.8
169.7
153.1
136.0
115.9
97.1
82.7
75.2
70.9
67.8
65.2
62.6
59.1
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