

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: P946819

Luminaire Tested: **GALN-SB2B-835-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946819  
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-SB2B-835-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

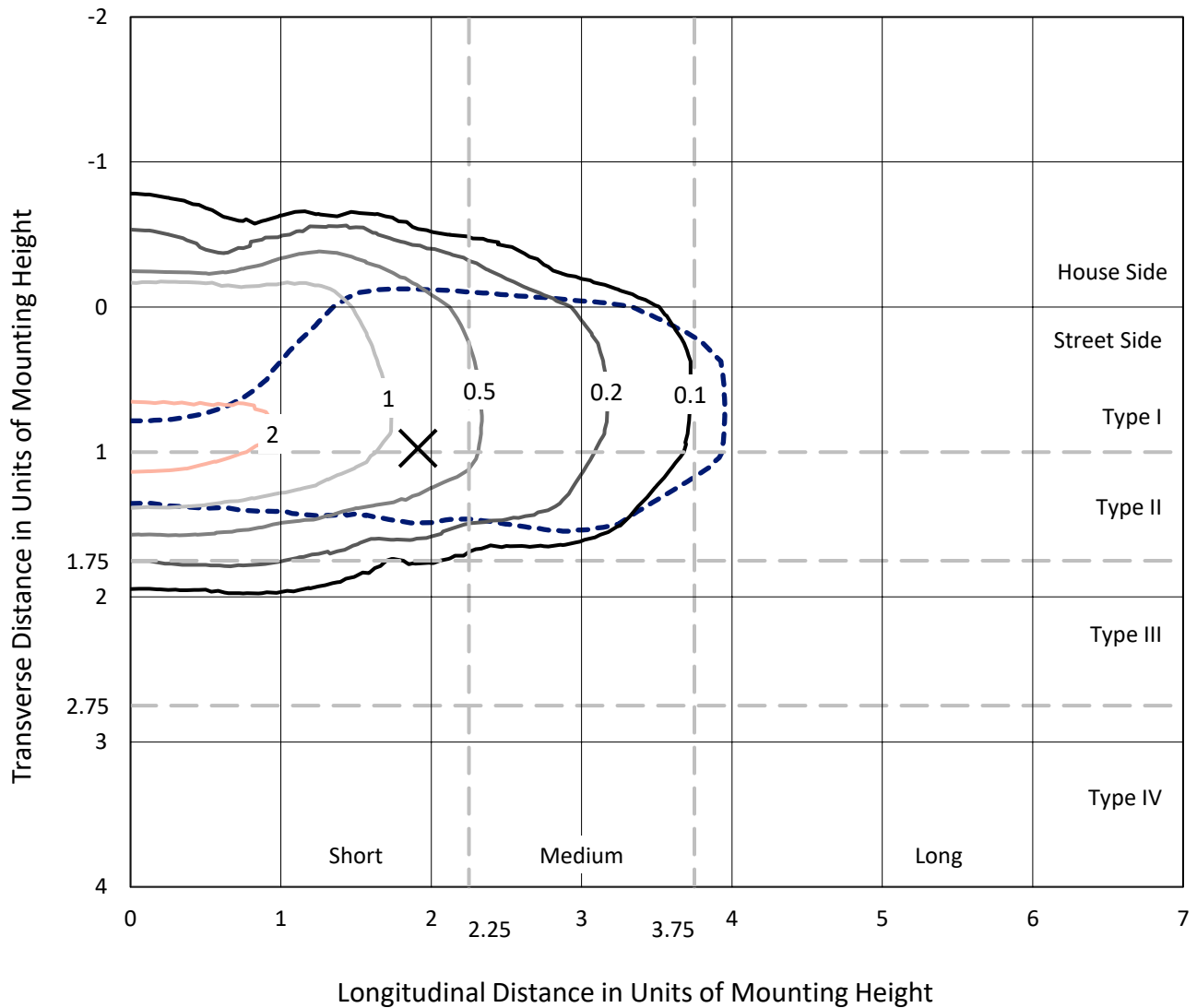
Lumens per Lamp: N/A  
Luminaire Lumens: 7983 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

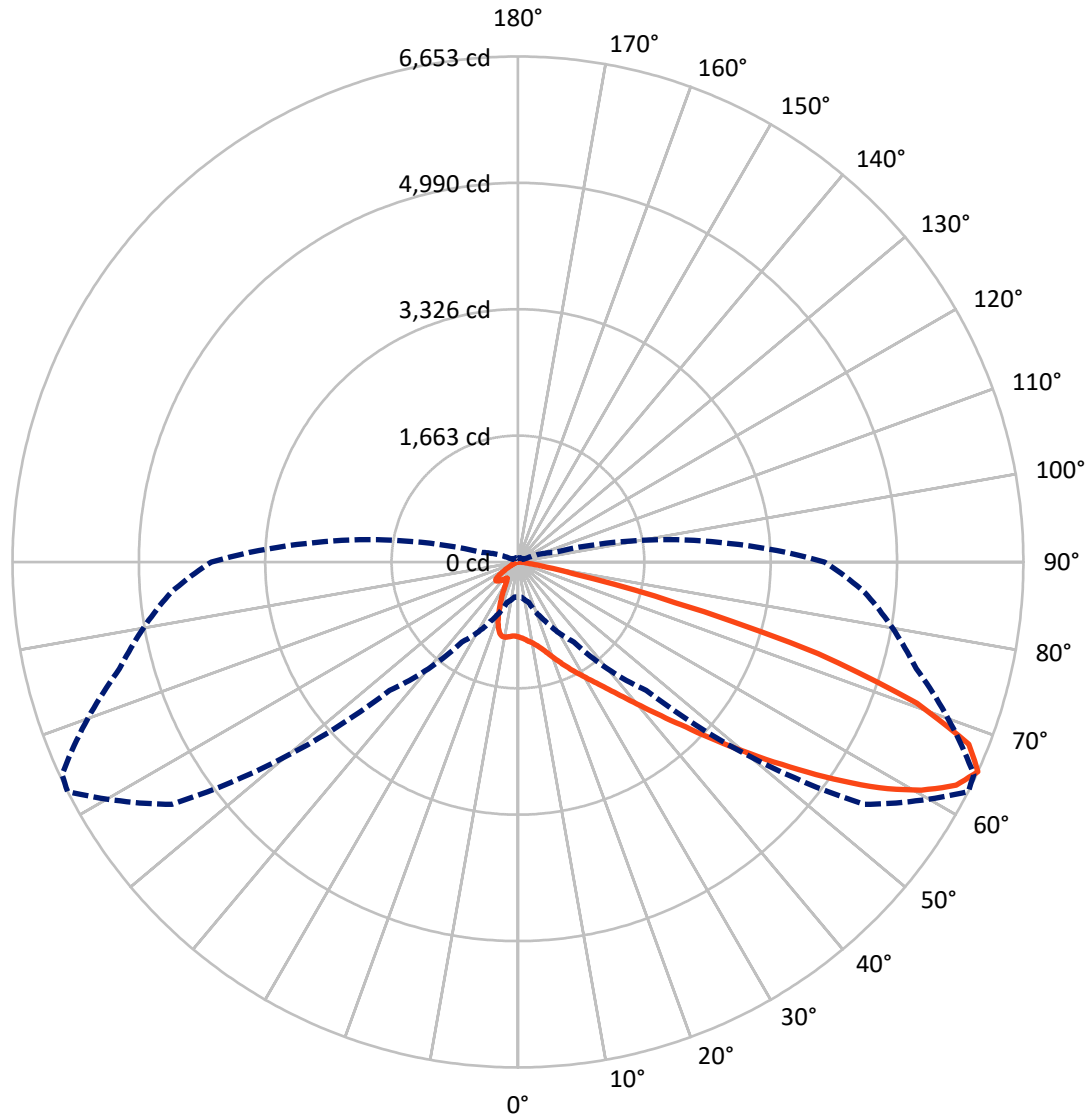
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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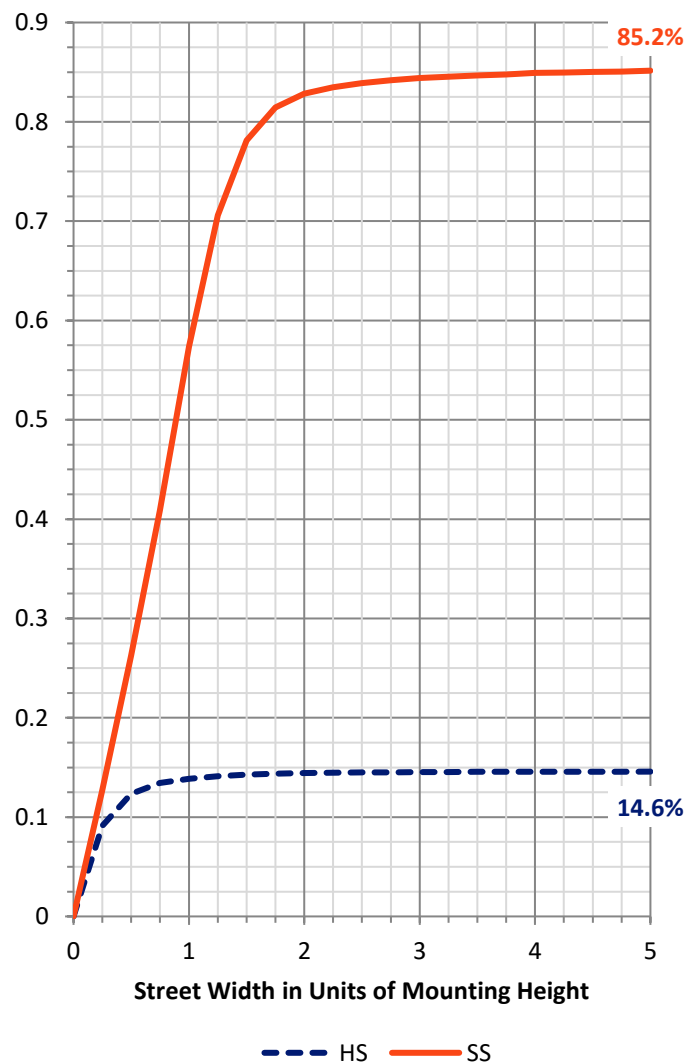
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1173.4	0.0	1173.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	6809.6	0.0	6809.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	7983.0	0.0	7983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	1.2
10°-20°	257.6	3.2
20°-30°	448.5	5.6
30°-40°	808.4	10.1
40°-50°	1603.2	20.1
50°-60°	2183.9	27.4
60°-70°	1743.1	21.8
70°-80°	788.8	9.9
80°-90°	56.7	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°	7983.0	100.0
0°-180°	7983.0	100.0

**Coefficient of Utilization**



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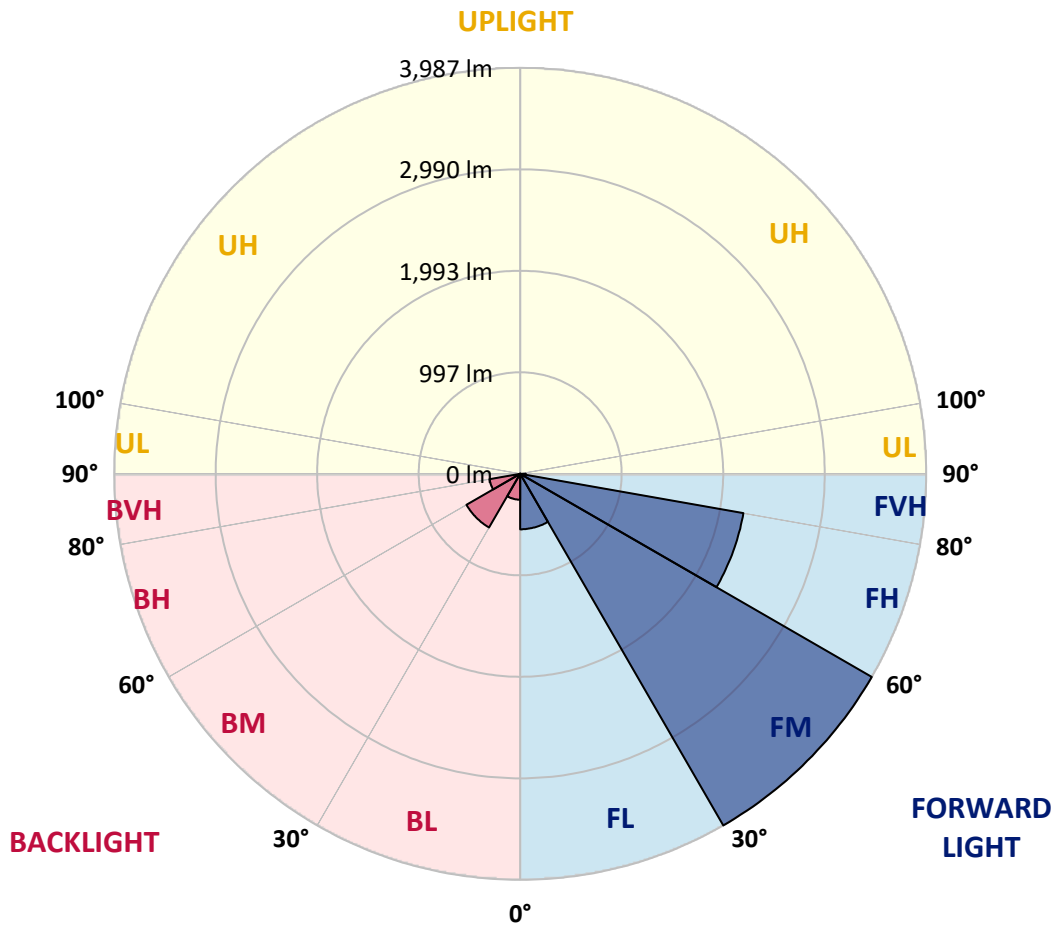
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.9	6.8			
FM (30°-60°)	3986.5	49.9			
FH (60°-80°)	2225.6	27.9			G2/5000
FVH (80°-90°)	52.5	0.7			G1/100
BL (0°-30°)	254.0	3.2	B1/500		
BM (30°-60°)	608.9	7.6	B1/1000		
BH (60°-80°)	306.3	3.8	B1/500		G1/500
BVH (80°-90°)	4.2	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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3
2.5°	1008.3	1005.6	1009.4	1007.8	1006.7	1004.5	1003.4	1002.3	1000.1	998.4
5°	1011.1	1009.4	1013.3	1016.6	1019.9	1023.1	1024.8	1027.0	1024.8	1020.4
7.5°	988.0	986.9	995.1	1005.0	1019.9	1032.5	1046.2	1053.9	1054.5	1052.8
10°	986.4	983.6	991.8	1003.9	1023.1	1045.7	1069.8	1086.3	1088.5	1095.6
12.5°	1012.2	1009.4	1021.0	1034.1	1053.9	1077.5	1107.2	1130.2	1133.5	1143.4
15°	1055.5	1051.7	1064.9	1081.9	1107.2	1134.1	1165.4	1186.3	1189.0	1201.1
17.5°	1106.1	1102.2	1117.6	1135.7	1163.2	1200.0	1236.2	1259.3	1262.6	1270.3
20°	1170.9	1165.9	1178.0	1194.5	1223.6	1267.5	1310.9	1343.9	1343.3	1343.3
22.5°	1246.1	1238.4	1248.9	1262.0	1289.5	1342.8	1400.4	1439.4	1439.4	1424.1
25°	1326.9	1319.2	1330.7	1342.8	1366.9	1427.4	1494.9	1543.2	1545.4	1519.1
27.5°	1427.9	1418.0	1426.8	1441.1	1455.4	1516.9	1597.1	1653.1	1654.2	1613.5
30°	1622.3	1594.3	1566.8	1551.5	1558.1	1619.0	1704.7	1766.8	1772.2	1716.2
32.5°	1978.2	1972.7	1876.0	1749.7	1683.8	1728.9	1825.0	1899.7	1903.0	1831.0
35°	2531.2	2524.6	2369.2	2128.7	1913.9	1876.0	1971.1	2059.5	2057.3	1976.0
37.5°	3191.4	3185.3	2980.5	2658.6	2311.0	2098.5	2159.4	2252.2	2266.0	2159.4
40°	3755.4	3732.9	3603.3	3293.0	2838.2	2467.5	2427.4	2488.9	2503.2	2376.9
42.5°	4182.7	4163.4	4097.5	3903.7	3476.4	3013.4	2743.2	2766.8	2782.8	2631.2
45°	4404.0	4399.6	4425.9	4407.8	4126.6	3683.4	3194.7	3096.4	3102.4	2912.9
47.5°	4435.3	4433.1	4553.4	4723.6	4685.7	4439.1	3774.1	3507.1	3485.7	3230.9
50°	4250.8	4246.4	4477.0	4796.1	5059.2	5074.0	4432.0	3970.1	3922.9	3559.9
52.5°	3661.5	3660.4	4039.3	4570.4	5190.4	5629.8	5082.2	4478.7	4399.6	3908.1
55°	2817.4	2837.7	3272.1	3899.8	4951.0	5897.2	5666.0	5043.2	4921.9	4258.4
57.5°	1995.8	2025.4	2454.9	3014.0	4208.5	5739.1	6060.9	5608.9	5478.2	4607.7
60°	1072.0	1098.4	1528.4	2195.7	3131.0	5149.2	6269.0	6099.9	5976.3	4939.4
62.5°	638.7	647.5	825.4	1417.5	2117.7	3933.9	6180.6	6473.9	6372.3	5217.9
65°	458.6	460.2	549.7	865.5	1285.7	2390.1	5560.6	6652.9	6621.6	5427.7
67.5°	386.1	385.0	422.3	575.0	876.0	1197.2	4261.7	6399.8	6532.7	5560.6
70°	331.2	332.8	376.7	421.2	658.5	677.7	2118.8	5572.1	5855.5	5595.7
72.5°	246.6	252.1	292.7	383.9	497.0	466.3	731.5	4131.6	4644.0	5272.3
75°	174.1	176.8	205.9	322.9	370.7	339.4	373.5	2135.8	2792.6	4042.1
77.5°	134.0	138.9	156.0	225.7	365.2	238.3	228.5	739.2	1135.7	2441.7
80°	72.5	81.3	112.6	163.1	256.5	168.6	113.1	294.4	385.0	1141.8
82.5°	37.3	41.7	78.5	117.5	146.1	147.2	56.0	122.5	158.7	352.6
85°	14.8	18.1	52.7	64.8	75.2	72.5	25.3	49.4	57.1	97.8
87.5°	3.3	5.5	19.2	14.8	14.3	15.4	6.0	11.5	11.0	11.5
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°
985.3	0°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3
991.8	2.5°	991.3	989.1	983.1	976.5	968.8	964.4	961.6	961.1	957.2	954.5
1013.8	5°	1007.8	1005.6	994.0	980.3	965.5	953.9	943.0	933.1	918.8	916.1
1045.7	7.5°	1040.7	1034.7	1016.0	997.3	969.3	935.8	895.2	848.5	806.8	794.1
1088.0	10°	1081.4	1073.1	1049.5	1016.6	954.5	863.3	765.0	673.9	601.4	581.0
1137.9	12.5°	1127.5	1120.4	1089.1	1028.1	892.4	727.1	576.7	463.5	393.2	375.6
1191.2	15°	1182.4	1172.0	1128.6	1010.5	781.5	552.5	396.0	329.0	303.7	300.4
1252.2	17.5°	1240.6	1223.6	1163.7	947.4	632.1	392.7	305.9	286.7	275.7	272.4
1313.7	20°	1293.9	1271.9	1184.6	851.8	472.3	305.9	274.0	261.4	251.5	247.7
1375.2	22.5°	1347.2	1315.9	1184.6	721.6	354.2	271.3	251.5	240.0	228.5	223.5
1441.1	25°	1402.6	1360.9	1163.7	576.7	285.0	248.8	230.1	217.5	207.6	201.6
1503.7	27.5°	1456.5	1398.8	1116.0	439.4	253.7	229.0	210.3	198.3	188.9	184.5
1571.8	30°	1507.5	1436.1	1049.0	333.4	233.4	209.8	192.2	181.8	172.4	168.1
1660.2	32.5°	1576.7	1483.4	977.6	273.5	215.8	191.7	175.7	165.9	157.6	154.3
1775.0	35°	1672.8	1553.1	916.1	268.6	201.0	176.8	160.9	151.6	143.3	140.6
1923.3	37.5°	1809.0	1665.7	883.7	301.5	188.9	163.7	148.8	138.9	131.3	129.1
2111.6	40°	1977.1	1818.4	901.2	334.5	180.7	152.1	137.8	128.0	121.4	118.6
2328.0	42.5°	2176.5	2006.8	998.4	359.7	175.2	142.2	127.4	116.4	112.0	110.9
2573.5	45°	2405.5	2213.8	1147.3	386.6	166.4	132.9	117.0	108.7	105.4	104.9
2840.4	47.5°	2665.8	2441.2	1319.7	420.1	157.6	124.1	108.7	103.2	100.5	99.4
3118.9	50°	2923.9	2670.2	1497.1	438.8	150.5	115.9	102.1	97.8	95.6	95.0
3413.2	52.5°	3194.1	2905.8	1640.4	421.2	144.4	109.3	96.7	93.4	91.2	90.6
3684.5	55°	3451.7	3096.4	1665.2	357.5	132.4	102.7	90.6	89.0	86.2	86.2
3959.7	57.5°	3673.6	3191.9	1490.5	262.5	120.3	92.8	84.6	82.9	80.7	80.2
4207.9	60°	3877.3	3164.5	1150.6	176.8	107.1	82.9	76.9	75.8	73.6	70.8
4423.8	62.5°	3992.1	3043.6	787.0	115.3	93.9	72.5	68.1	67.6	62.6	57.1
4583.6	65°	4035.5	2795.4	491.0	84.0	78.5	62.1	58.8	57.7	50.5	44.5
4674.2	67.5°	3997.6	2386.8	247.7	66.5	62.1	51.6	48.3	48.3	43.4	37.9
4668.7	70°	3846.0	1789.3	104.3	53.3	47.8	39.5	39.5	41.7	36.8	30.8
4426.5	72.5°	3517.0	1203.8	55.5	40.6	35.7	28.0	32.4	34.0	29.1	23.1
3623.0	75°	2795.9	734.3	38.4	30.2	22.5	19.8	24.7	25.8	19.8	15.4
2484.0	77.5°	1912.3	421.8	25.8	19.2	14.3	11.5	17.0	15.9	10.4	7.1
957.8	80°	839.7	175.7	14.8	8.8	5.5	4.4	6.0	4.4	3.3	2.2
131.3	82.5°	98.3	41.2	5.5	3.3	2.2	1.1	0.5	0.0	0.0	0.0
40.1	85°	20.3	4.9	2.7	1.1	0.5	0.0	0.0	0.0	0.0	0.0
7.1	87.5°	3.8	1.1	0.5	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>
985.3
957.2
915.0
788.1
573.4
370.7
297.1
270.8
245.5
220.8
199.4
184.5
168.6
154.3
140.6
128.5
118.1
110.9
104.3
99.4
95.0
90.6
85.7
79.6
70.3
56.0
43.9
37.3
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