

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: P945032

Luminaire Tested: **GALN-SB1A-835-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

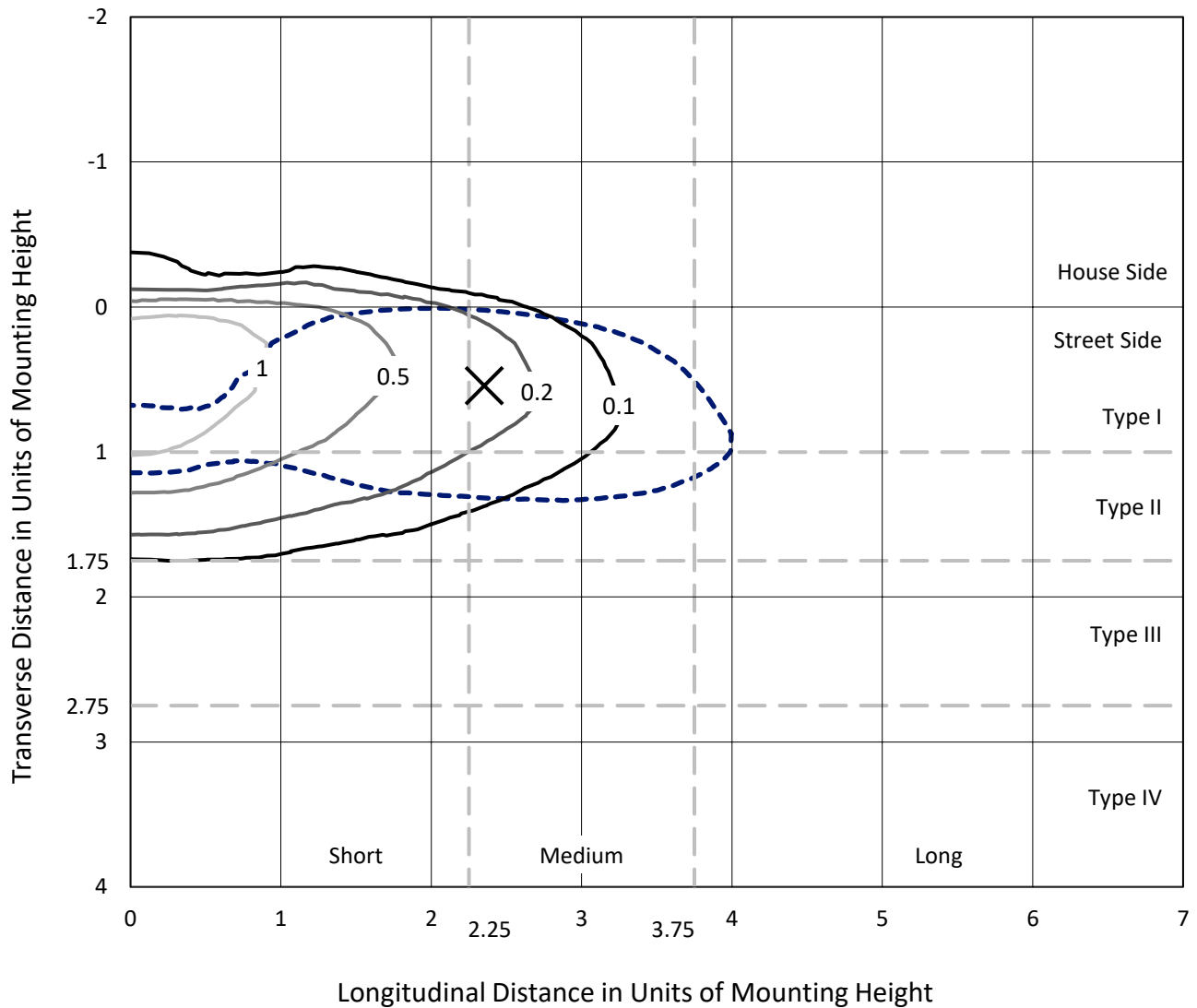
Lumens per Lamp: N/A  
Luminaire Lumens: 3524 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

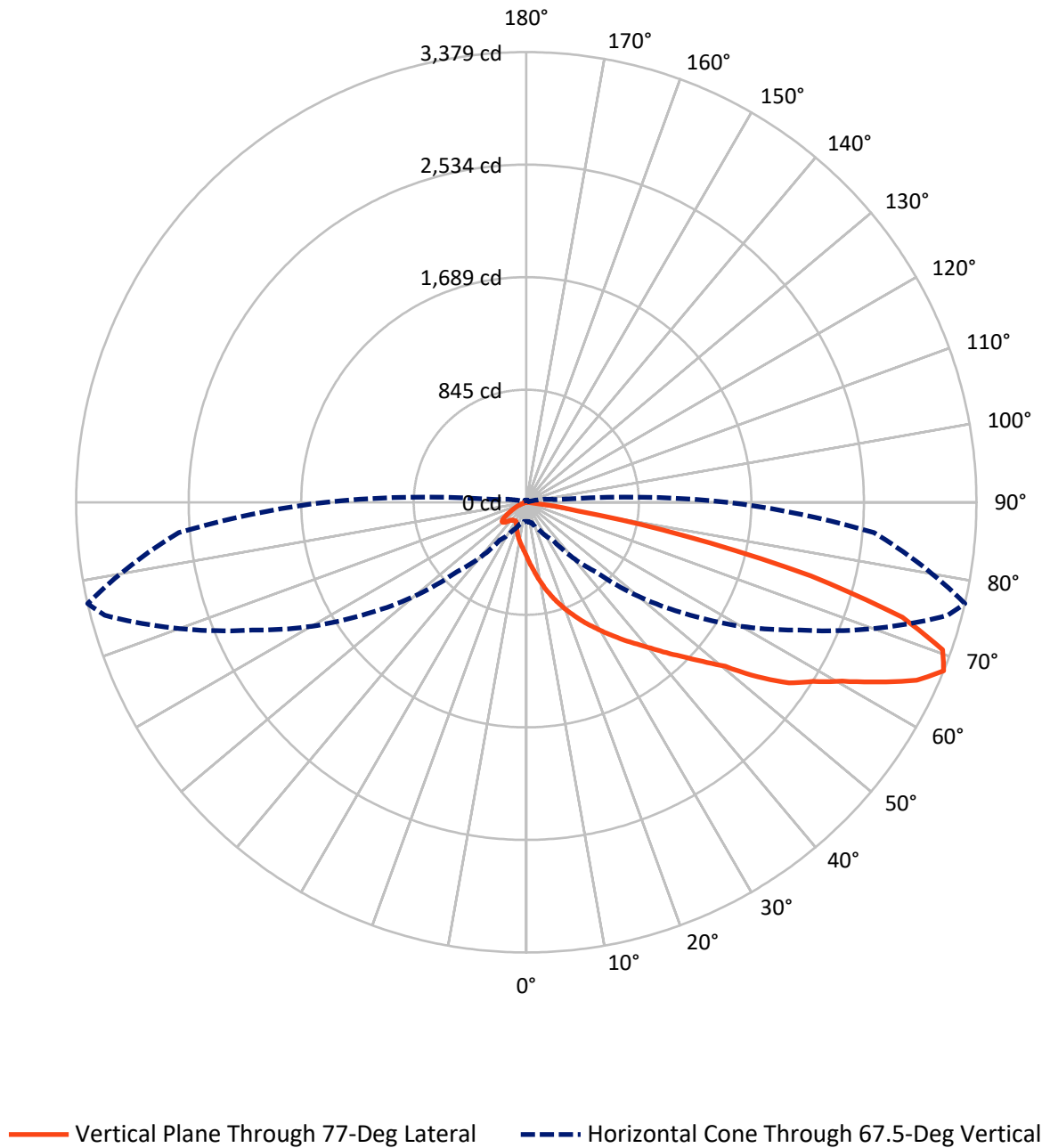
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	259.3	0.0	259.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	3264.7	0.0	3264.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	3524.0	0.0	3524.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.5	1.2
10°-20°	145.2	4.1
20°-30°	280.3	8.0
30°-40°	486.6	13.8
40°-50°	706.5	20.0
50°-60°	811.3	23.0
60°-70°	704.4	20.0
70°-80°	331.8	9.4
80°-90°	16.4	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°	3524.0	100.0
0°-180°	3524.0	100.0

**Coefficient of Utilization**



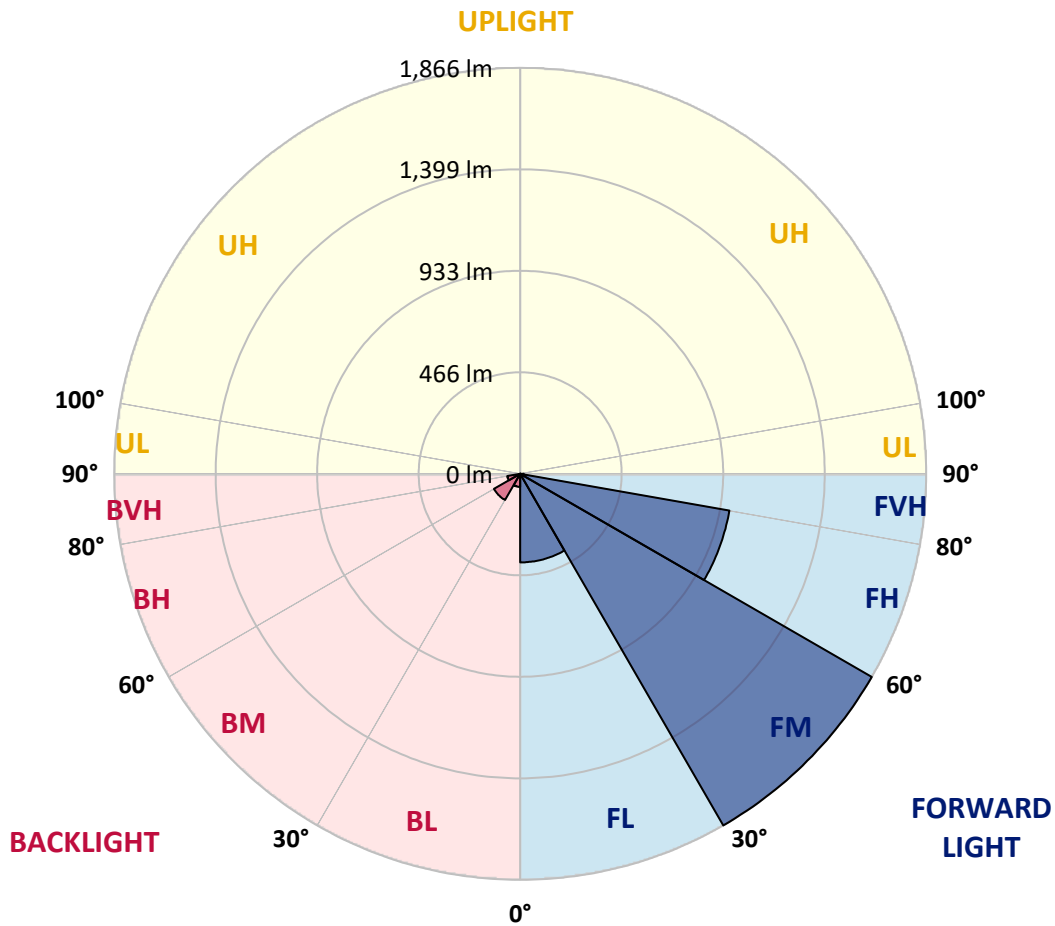
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.0	11.5			
FM (30°-60°)	1865.5	52.9			
FH (60°-80°)	976.1	27.7			G1/1800
FVH (80°-90°)	16.1	0.5			G1/100
BL (0°-30°)	60.0	1.7	B0/110		
BM (30°-60°)	138.9	3.9	B0/220		
BH (60°-80°)	60.0	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4
2.5°	562.6	566.1	561.1	551.5	537.0	527.6	504.6	483.0	458.9	451.2
5°	685.8	688.9	683.2	672.7	653.4	635.0	604.8	559.6	512.5	497.4
7.5°	777.1	778.8	776.6	767.0	748.6	727.8	694.1	640.5	570.7	554.1
10°	842.7	848.4	847.8	844.0	831.8	814.9	779.0	718.0	635.9	614.5
12.5°	886.3	892.6	896.3	904.6	904.0	893.3	861.8	797.2	700.9	675.7
15°	899.0	905.7	920.0	939.2	956.3	961.8	939.7	874.9	772.5	740.3
17.5°	891.7	902.2	919.3	949.7	987.1	1011.9	1009.5	949.9	837.5	800.7
20°	907.7	917.8	931.1	956.7	1000.3	1045.1	1063.1	1021.7	902.0	863.5
22.5°	996.1	994.4	995.7	999.8	1025.9	1070.3	1107.3	1086.9	965.9	926.5
25°	1136.2	1128.3	1114.9	1092.4	1085.8	1107.3	1145.8	1144.7	1033.3	991.1
27.5°	1296.8	1295.5	1264.2	1209.9	1179.3	1171.0	1189.3	1200.9	1100.1	1055.0
30°	1450.6	1454.1	1411.9	1351.5	1295.3	1262.7	1246.0	1254.3	1167.9	1123.9
32.5°	1584.6	1588.3	1542.3	1471.6	1402.0	1362.7	1327.6	1307.1	1241.9	1193.9
35°	1697.7	1701.4	1648.7	1570.5	1496.4	1460.7	1421.1	1364.8	1316.3	1271.6
37.5°	1798.8	1797.7	1727.0	1648.2	1575.4	1547.1	1526.3	1436.0	1392.9	1349.7
40°	1858.5	1863.1	1802.7	1715.9	1645.2	1624.6	1623.3	1524.2	1481.3	1439.5
42.5°	1876.0	1884.1	1840.4	1769.0	1704.9	1682.6	1716.9	1619.6	1584.1	1543.4
45°	1844.5	1852.4	1832.5	1783.0	1745.6	1731.2	1797.5	1718.5	1694.0	1653.7
47.5°	1752.6	1762.5	1767.3	1756.8	1756.3	1771.0	1869.7	1822.6	1824.4	1783.3
50°	1574.7	1591.3	1635.5	1672.7	1730.3	1802.5	1939.9	1935.6	1971.4	1936.0
52.5°	1251.3	1274.9	1427.2	1529.0	1658.3	1796.6	2017.2	2116.8	2229.4	2177.6
55°	1005.5	1005.5	1129.4	1319.8	1517.8	1757.6	2050.9	2234.5	2405.2	2392.9
57.5°	819.7	829.6	908.6	1076.9	1314.5	1664.9	2071.7	2308.4	2546.8	2537.8
60°	505.9	527.2	676.4	842.5	1083.2	1499.6	2058.5	2383.3	2718.5	2725.8
62.5°	284.9	292.8	359.3	606.2	842.3	1277.5	1958.1	2425.1	2938.2	2968.9
65°	196.7	200.7	226.3	377.3	583.8	1017.1	1761.8	2399.0	3158.4	3220.3
67.5°	142.9	144.9	160.8	230.4	346.4	737.5	1454.1	2267.7	3275.0	3378.5
70°	109.9	111.2	122.8	151.4	204.6	455.2	1056.1	2006.7	3190.6	3314.2
72.5°	89.3	90.6	99.6	112.0	135.7	269.2	640.1	1629.6	2817.7	2951.2
75°	75.3	77.0	85.1	93.2	106.4	172.9	300.2	1134.9	2118.9	2206.5
77.5°	41.8	38.5	69.2	77.2	89.7	109.4	140.5	667.9	1186.7	1211.0
80°	26.0	26.9	54.9	62.1	68.9	55.1	64.3	257.1	411.4	390.8
82.5°	1.5	3.5	42.2	44.9	47.3	23.6	24.3	87.3	99.1	91.0
85°	0.0	0.0	19.3	15.5	16.4	6.8	7.0	20.4	13.3	14.4
87.5°	0.0	0.0	0.0	0.4	0.0	0.7	1.3	1.8	0.7	0.9
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°
406.4	0°	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4
427.2	2.5°	411.8	396.5	365.4	335.0	310.3	287.3	270.9	255.4	247.5	247.1
454.7	5°	424.3	392.1	330.0	275.1	230.9	195.4	172.4	156.0	147.7	144.9
488.6	7.5°	441.8	393.5	298.9	222.6	170.5	140.1	126.9	121.7	119.9	117.9
526.9	10°	463.9	396.5	271.1	179.2	134.4	119.0	113.8	111.6	110.3	109.0
570.1	12.5°	488.6	399.4	243.6	148.8	118.2	110.3	106.6	103.9	102.2	100.7
614.3	15°	512.7	401.1	214.9	127.6	109.9	103.5	99.6	96.7	94.3	92.6
657.6	17.5°	536.6	403.5	188.0	114.9	103.1	96.7	92.8	89.3	87.3	85.3
703.1	20°	563.1	403.1	162.6	105.9	96.3	89.9	85.8	82.5	80.5	78.3
751.2	22.5°	587.6	400.9	140.3	98.3	89.3	83.2	78.6	75.3	73.3	71.6
800.5	25°	615.8	399.1	121.7	91.3	82.7	76.6	71.6	68.5	66.3	64.8
849.9	27.5°	642.9	396.5	108.1	84.9	76.4	70.5	65.6	62.1	60.2	59.1
900.9	30°	669.6	395.9	103.1	78.8	70.7	64.8	60.0	56.7	55.1	54.7
956.9	32.5°	701.8	397.6	105.3	76.6	65.4	59.5	54.9	52.5	51.0	51.0
1019.3	35°	736.1	397.2	108.5	78.6	61.9	54.3	50.8	49.2	47.7	47.7
1088.5	37.5°	779.3	397.8	111.2	81.8	60.6	49.9	47.9	46.0	45.1	45.1
1164.2	40°	843.6	419.5	109.9	84.7	60.2	46.8	42.9	42.2	41.6	41.6
1249.7	42.5°	922.4	466.5	111.6	84.9	60.0	44.6	39.4	40.7	39.2	39.0
1346.2	45°	1008.6	518.0	122.8	80.3	59.7	43.5	37.6	39.2	36.8	36.8
1458.1	47.5°	1094.2	569.0	134.1	73.7	59.1	43.3	36.1	35.2	34.6	34.8
1603.8	50°	1212.1	610.5	138.5	64.8	57.6	42.9	33.3	33.5	33.0	33.5
1809.3	52.5°	1340.6	619.3	133.3	54.7	53.2	41.6	31.3	32.2	31.9	32.4
1953.9	55°	1420.7	609.9	110.1	45.5	46.4	36.3	29.3	31.1	31.1	31.1
2095.3	57.5°	1503.4	569.8	78.1	37.0	38.5	29.8	27.6	30.0	29.8	29.5
2265.6	60°	1562.9	505.1	51.4	30.4	30.6	24.5	25.6	28.2	28.0	26.9
2441.1	62.5°	1607.3	433.5	33.0	25.8	23.4	22.1	23.4	25.6	24.7	22.3
2589.9	65°	1602.3	334.4	25.4	22.1	19.3	19.3	20.4	22.3	19.7	15.8
2618.3	67.5°	1508.8	226.3	21.0	18.6	16.2	16.0	16.8	18.6	16.8	13.3
2472.6	70°	1341.9	147.9	16.8	14.4	12.9	11.8	13.6	16.0	14.2	10.7
2104.9	72.5°	1089.1	90.2	12.7	10.5	9.4	7.7	10.7	13.1	11.4	7.9
1463.8	75°	704.6	46.0	8.8	6.8	5.0	4.6	7.9	9.8	7.9	4.8
649.5	77.5°	269.6	19.3	4.8	3.1	2.6	2.2	4.4	5.9	3.3	1.1
125.8	80°	51.9	8.1	2.4	1.5	1.3	0.9	0.7	0.4	0.0	0.0
22.3	82.5°	9.0	2.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
4.4	85°	3.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.5	87.5°	1.1	0.0	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>
406.4
246.6
144.4
117.5
108.5
100.2
92.3
85.1
78.1
71.3
64.6
59.1
54.5
51.0
47.7
45.1
41.6
38.7
36.8
34.8
33.5
32.4
31.1
29.5
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