

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: P946800

Luminaire Tested: **GALN-SB2B-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946800  
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-SB2B-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

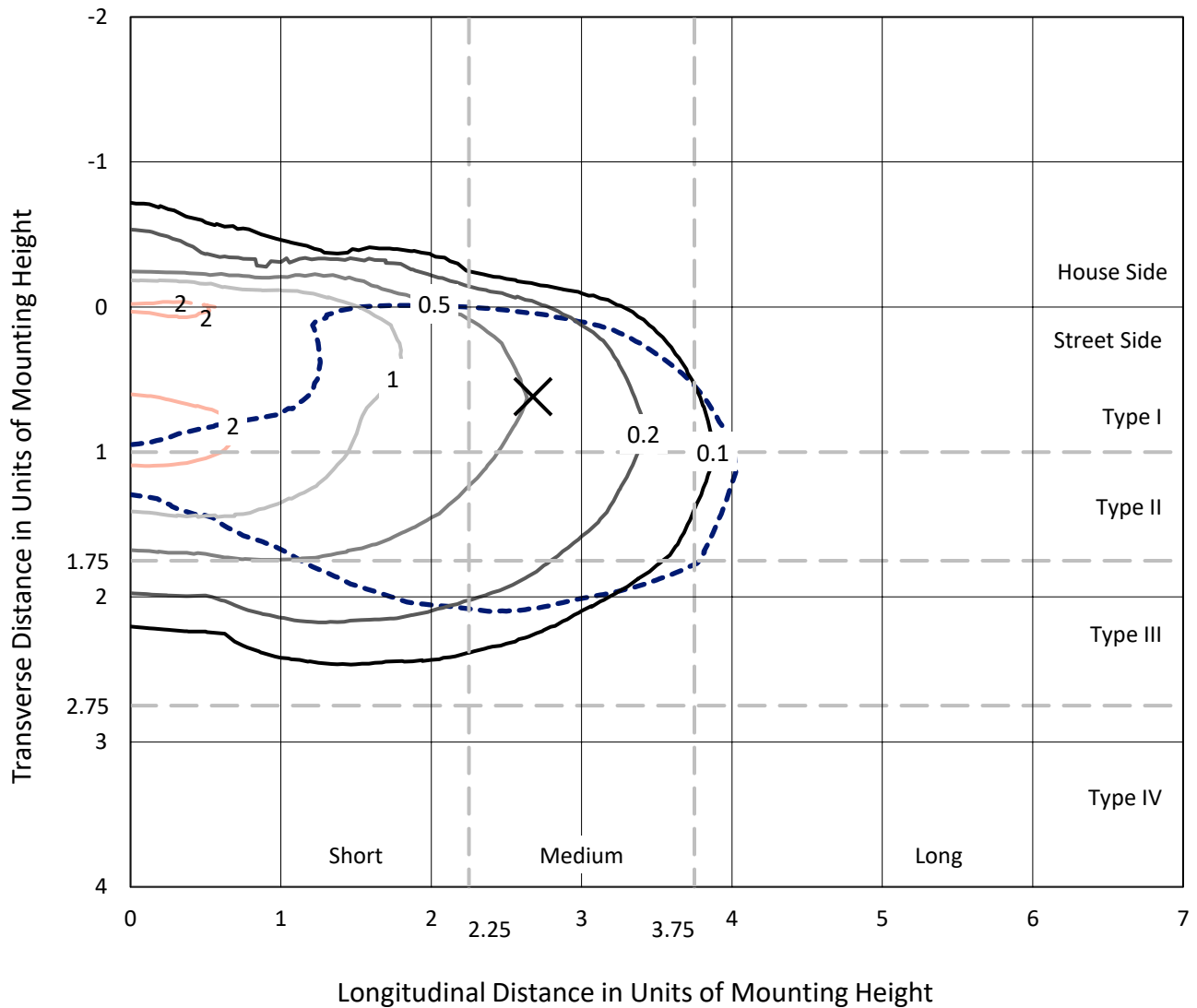
Lumens per Lamp: N/A  
Luminaire Lumens: 8424 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

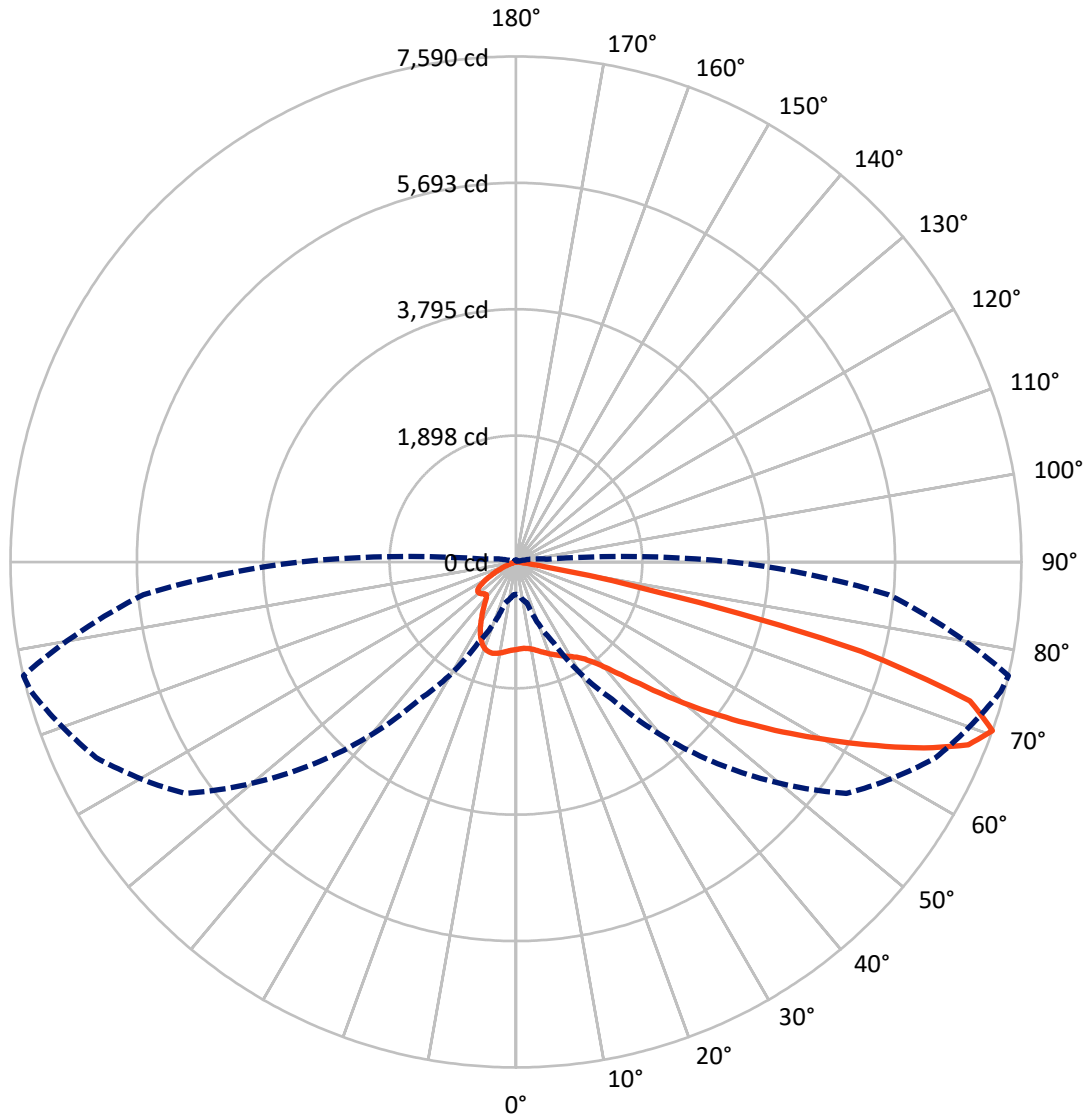
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	888.0	0.0	888.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	7536.0	0.0	7536.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	8424.0	0.0	8424.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	1.3
10°-20°	268.8	3.2
20°-30°	415.8	4.9
30°-40°	754.5	9.0
40°-50°	1424.2	16.9
50°-60°	2057.9	24.4
60°-70°	2190.5	26.0
70°-80°	1160.8	13.8
80°-90°	38.1	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°	8424.0	100.0
0°-180°	8424.0	100.0

**Coefficient of Utilization**



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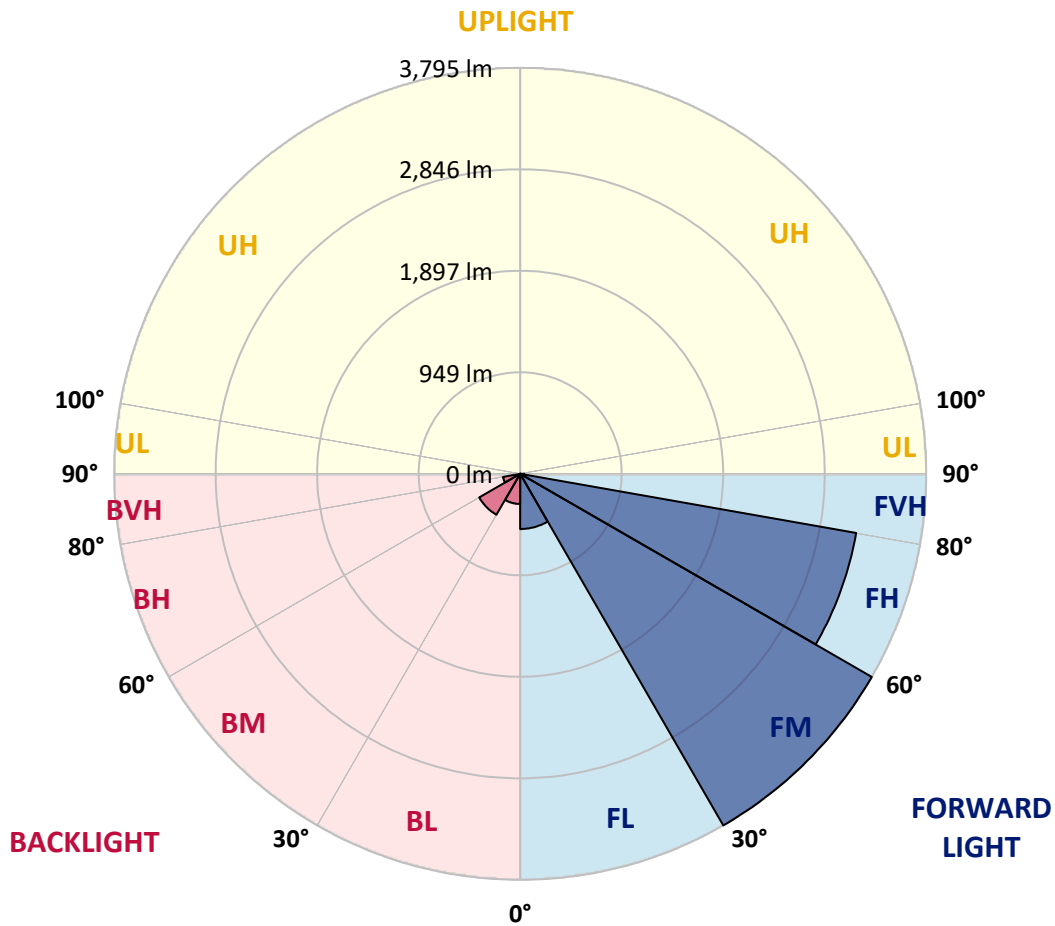
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.7	6.1			
FM (30°-60°)	3794.5	45.0			
FH (60°-80°)	3188.6	37.9			G2/5000
FVH (80°-90°)	37.1	0.4			G1/100
BL (0°-30°)	282.1	3.3	B1/500		
BM (30°-60°)	442.1	5.2	B1/1000		
BH (60°-80°)	162.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1233.7	1244.8	1243.2	1250.7	1253.3	1264.0	1274.6	1289.0	1304.9	1304.4
5°	1164.0	1175.1	1177.8	1187.9	1200.7	1217.2	1239.0	1267.7	1297.5	1302.3
7.5°	1081.5	1093.2	1100.1	1120.4	1143.8	1177.8	1213.4	1255.5	1304.9	1311.9
10°	999.1	1009.7	1018.7	1047.5	1084.7	1135.2	1193.2	1253.9	1320.4	1330.5
12.5°	948.0	958.1	968.2	993.2	1039.5	1101.2	1179.9	1261.3	1345.9	1360.3
15°	929.9	938.9	946.9	969.3	1012.4	1082.6	1177.3	1276.8	1378.4	1397.5
17.5°	932.6	937.3	942.7	959.7	1001.7	1074.1	1182.1	1303.4	1416.7	1433.7
20°	948.0	950.6	951.2	962.9	1000.1	1073.0	1191.6	1328.9	1452.8	1475.7
22.5°	967.7	968.7	967.7	975.7	1010.2	1081.0	1204.4	1359.7	1493.3	1514.5
25°	1059.7	1039.5	1014.0	998.5	1027.3	1096.4	1223.6	1401.2	1537.4	1558.2
27.5°	1345.4	1287.4	1195.9	1093.2	1062.4	1118.8	1250.2	1443.3	1582.1	1600.7
30°	1809.3	1733.2	1577.9	1346.4	1175.1	1165.6	1284.7	1485.3	1629.5	1649.7
32.5°	2274.2	2255.6	2076.3	1756.1	1428.9	1269.8	1342.2	1542.2	1692.2	1708.2
35°	2744.5	2706.7	2559.9	2243.4	1819.9	1482.1	1437.9	1616.7	1774.7	1792.8
37.5°	3104.6	3081.8	2990.8	2730.1	2283.8	1809.8	1601.8	1732.1	1894.4	1914.6
40°	3422.8	3412.1	3381.3	3209.4	2802.5	2238.6	1856.6	1910.9	2060.4	2084.3
42.5°	3672.8	3697.8	3715.4	3667.5	3337.1	2728.0	2199.2	2162.0	2291.8	2316.2
45°	3928.7	3937.2	4007.9	4077.1	3868.0	3239.8	2585.4	2456.2	2579.6	2609.9
47.5°	4093.1	4127.1	4251.6	4373.4	4314.4	3747.3	3000.4	2803.5	2913.1	2970.0
50°	4105.3	4169.7	4341.0	4553.2	4639.4	4230.3	3451.5	3199.3	3315.8	3378.6
52.5°	3901.5	4001.6	4267.0	4577.7	4815.0	4639.4	3918.0	3595.1	3744.6	3826.5
55°	2991.3	3122.2	3988.8	4444.7	4821.9	4949.5	4372.3	4007.4	4222.3	4314.9
57.5°	2606.2	2672.1	3136.0	4213.8	4693.7	5074.6	4783.0	4400.0	4742.1	4857.0
60°	2168.4	2255.1	2630.1	3836.1	4519.7	5086.8	5145.8	4906.5	5305.4	5434.7
62.5°	1473.6	1567.7	1940.7	3187.1	4281.9	5080.9	5443.2	5427.8	5931.6	6070.4
65°	912.9	971.9	1217.7	2602.4	3949.4	5087.3	5754.4	6060.9	6592.3	6733.3
67.5°	721.4	748.5	876.7	1998.1	3376.5	4943.7	6065.1	6656.1	7214.2	7325.9
70°	484.6	501.1	637.8	1339.5	2512.0	4280.8	6059.3	6955.1	7534.4	7590.3
72.5°	255.4	268.1	372.9	620.3	1517.2	3042.9	5107.5	6597.6	7215.8	7131.7
75°	127.7	149.0	251.1	314.9	648.0	1697.0	3171.7	5201.7	5679.4	5353.9
77.5°	96.8	117.0	207.5	207.5	225.6	571.3	1343.3	2837.1	2616.8	2179.0
80°	61.7	79.8	181.4	156.9	94.2	145.2	350.0	794.8	555.9	422.9
82.5°	36.2	52.1	151.1	103.7	52.7	53.7	98.9	169.2	144.2	112.2
85°	14.4	34.0	103.7	41.0	20.7	13.3	29.8	36.2	29.8	22.3
87.5°	0.0	8.0	18.1	0.0	1.6	1.1	2.1	2.7	2.7	2.1
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°
1314.0	0°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
1315.1	2.5°	1319.8	1320.9	1324.1	1324.6	1317.2	1307.6	1303.9	1302.3	1295.9	1295.4
1323.6	5°	1335.8	1340.6	1335.8	1322.0	1289.0	1242.7	1207.6	1178.9	1152.8	1144.8
1352.8	7.5°	1367.7	1372.5	1358.1	1303.9	1220.9	1128.9	1045.9	987.4	934.7	915.0
1388.5	10°	1413.5	1419.9	1374.6	1265.0	1118.2	970.3	829.9	730.9	653.8	622.4
1436.9	12.5°	1470.9	1473.6	1383.7	1206.0	984.7	773.5	574.5	468.7	400.0	374.5
1495.4	15°	1534.2	1530.5	1384.7	1125.7	802.8	546.9	375.0	308.0	280.4	271.8
1553.9	17.5°	1600.7	1585.3	1363.5	1009.7	603.3	374.0	278.2	262.3	257.5	255.4
1611.9	20°	1666.2	1631.6	1324.6	858.1	433.0	279.3	252.7	247.9	245.2	244.2
1670.4	22.5°	1725.7	1666.7	1258.1	682.0	314.4	246.8	238.9	234.6	229.8	227.7
1727.3	25°	1783.7	1686.9	1164.5	517.6	251.6	230.9	224.5	216.5	210.1	207.5
1788.5	27.5°	1840.1	1699.7	1047.5	383.0	224.5	216.0	204.3	193.1	188.3	187.3
1854.0	30°	1900.2	1703.9	914.5	285.7	208.0	197.4	180.3	167.6	164.9	165.4
1942.3	32.5°	1973.6	1710.3	780.4	234.1	194.2	175.0	154.8	141.5	139.4	141.5
2071.0	35°	2061.4	1723.1	651.1	215.5	181.9	152.1	130.3	119.2	117.0	118.6
2235.9	37.5°	2180.6	1743.8	530.4	211.7	171.8	133.0	109.6	100.5	100.5	101.1
2438.1	40°	2339.1	1799.2	422.4	209.1	166.5	118.6	92.6	88.8	90.4	91.5
2695.5	42.5°	2532.2	1916.7	349.5	205.9	160.7	112.2	84.1	82.5	85.1	86.2
3004.1	45°	2748.7	2065.7	324.0	200.6	155.3	116.5	80.3	78.2	81.4	81.9
3349.9	47.5°	2972.7	2211.4	320.8	194.7	150.0	122.9	79.3	74.5	78.2	78.7
3719.1	50°	3199.3	2306.7	324.0	185.7	141.5	122.9	79.8	70.8	73.9	75.5
4102.1	52.5°	3427.6	2350.3	321.8	166.0	126.6	115.4	79.8	67.6	70.8	71.8
4516.0	55°	3648.9	2341.8	289.4	136.7	107.5	102.1	77.7	64.9	67.0	67.6
4907.0	57.5°	3823.9	2223.1	229.3	106.4	87.2	85.1	70.8	61.7	63.3	62.8
5265.5	60°	3915.4	1962.5	163.8	81.9	68.6	67.0	62.2	57.5	58.5	55.9
5569.3	62.5°	3916.4	1617.8	109.6	64.9	54.8	53.2	53.2	51.6	50.5	45.2
5804.4	65°	3832.9	1235.3	72.9	51.6	44.2	41.5	44.7	44.2	40.4	33.0
5876.3	67.5°	3643.5	809.7	55.3	40.4	34.0	32.5	35.6	37.2	34.6	27.7
5614.5	70°	3254.1	471.3	45.8	31.4	25.5	23.9	28.7	31.9	28.7	22.3
4799.0	72.5°	2703.0	254.3	37.2	23.4	17.6	16.0	22.9	26.1	22.9	16.5
3079.1	75°	1753.9	136.2	28.7	15.4	9.0	10.1	17.0	19.2	16.0	10.6
903.8	77.5°	588.9	60.1	18.1	7.4	4.3	4.3	10.1	11.7	7.4	3.7
164.4	80°	131.4	25.0	7.4	3.2	1.6	1.6	2.1	2.1	1.1	0.0
50.5	82.5°	43.1	10.1	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
12.8	85°	16.5	3.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	6.4	0.5	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

180°
1314.0
1296.4
1140.0
907.0
609.1
366.5
271.8
254.8
243.1
227.2
206.4
186.2
165.4
141.0
118.1
100.5
91.5
86.2
82.5
79.3
76.1
71.8
67.6
62.8
55.3
43.6
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