

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: P946193

Luminaire Tested: **GALN-SB1D-930-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-930-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

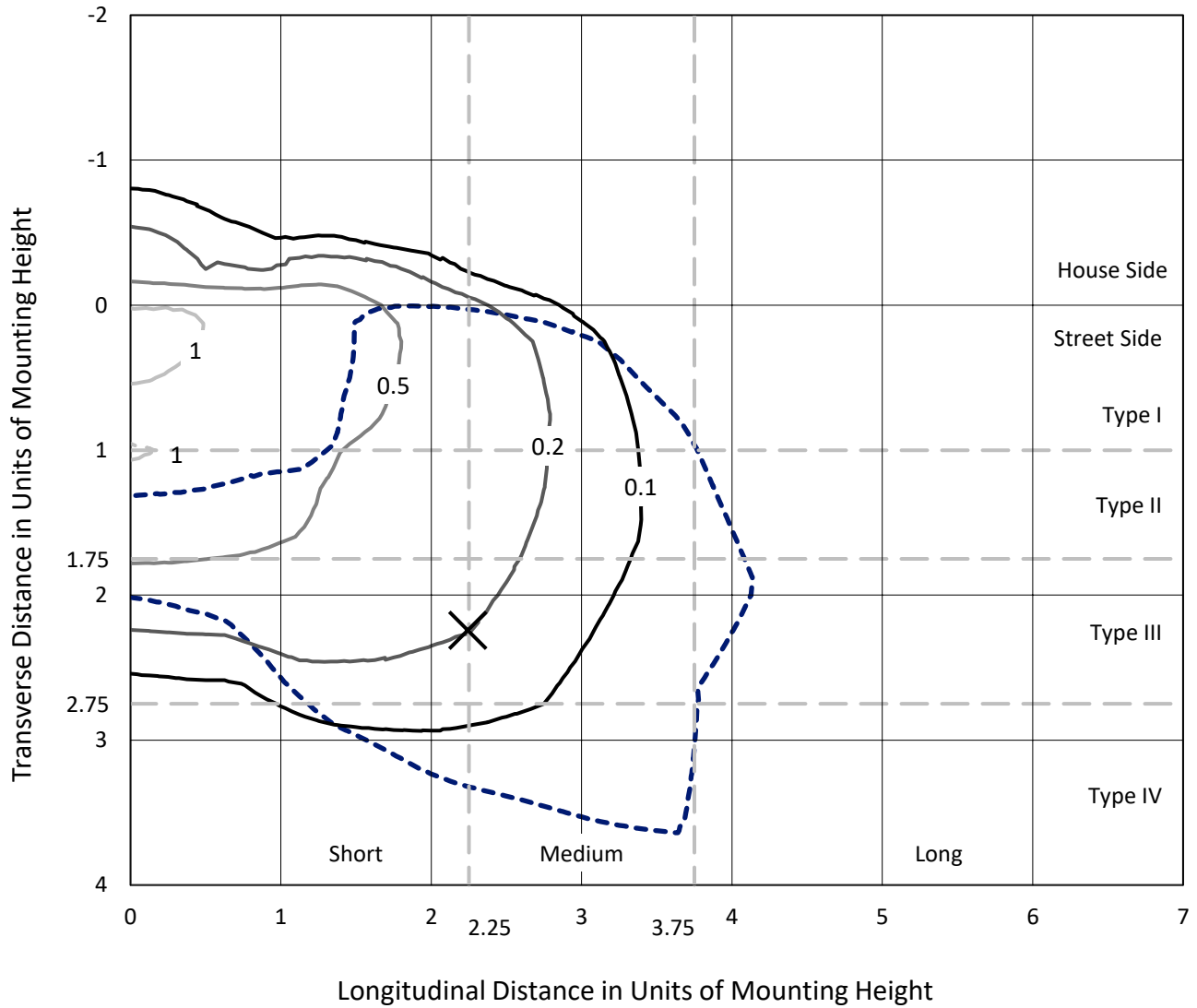
Lumens per Lamp: N/A  
Luminaire Lumens: 5455 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

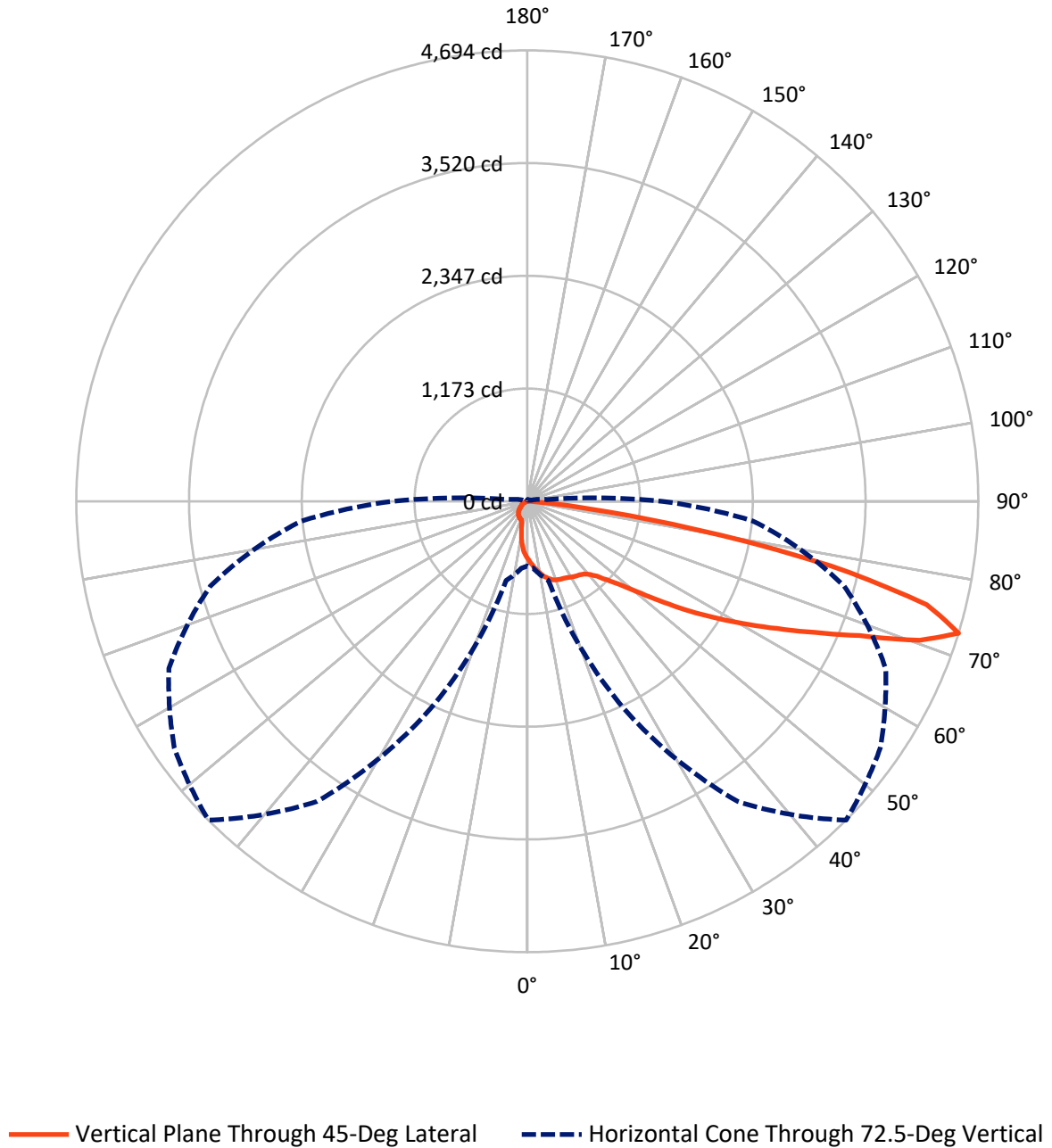
× Max cd  
 - - - 1/2 Max cd



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



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	573.2	0.0	573.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4881.8	0.0	4881.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	5455.0	0.0	5455.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.3	1.0
10°-20°	164.6	3.0
20°-30°	270.2	5.0
30°-40°	383.3	7.0
40°-50°	633.5	11.6
50°-60°	1138.0	20.9
60°-70°	1580.1	29.0
70°-80°	1146.2	21.0
80°-90°	82.9	1.5
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°	5455.0	100.0
0°-180°	5455.0	100.0

**Coefficient of Utilization**



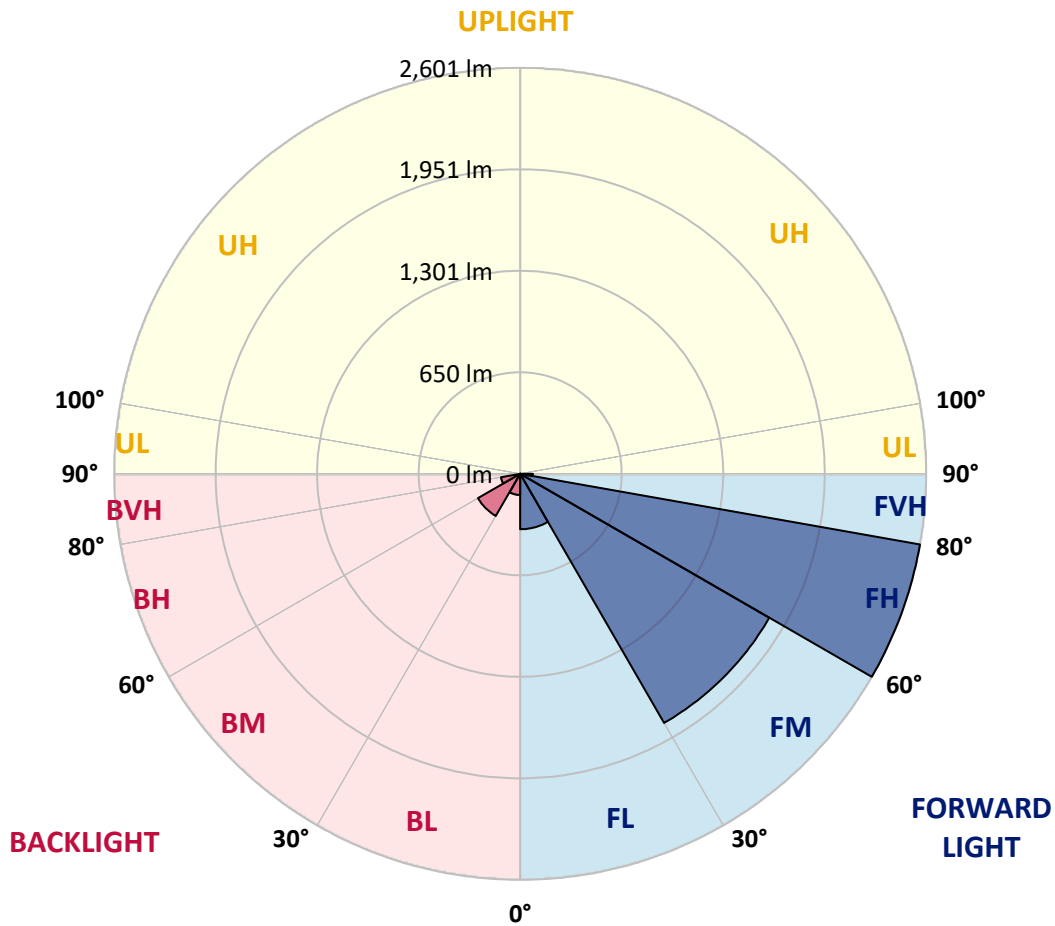
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.3	6.5			
FM (30°-60°)	1843.0	33.8			
FH (60°-80°)	2601.3	47.7			G2/5000
FVH (80°-90°)	82.2	1.5			G1/100
BL (0°-30°)	135.8	2.5	B1/500		
BM (30°-60°)	311.7	5.7	B1/1000		
BH (60°-80°)	125.0	2.3	B1/500		G1/500
BVH (80°-90°)	0.7	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°	45°	46°	55°	65°	75°
0°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	652.7	653.8	653.1	648.6	641.2	637.1	634.8	627.4	622.6	614.0
5°	712.7	717.1	714.5	705.6	691.4	681.4	678.4	663.1	649.4	633.4
7.5°	776.3	778.6	773.7	762.2	743.2	726.1	723.5	702.2	680.3	655.7
10°	831.4	834.0	826.6	809.8	788.2	767.0	763.3	739.8	713.8	683.6
12.5°	877.6	880.2	870.5	850.4	826.6	804.6	800.9	776.3	747.7	714.1
15°	912.6	917.4	904.4	882.8	857.1	835.2	833.3	809.1	781.2	743.9
17.5°	933.1	937.9	925.6	899.6	877.6	859.0	856.8	836.6	810.6	774.8
20°	936.4	940.9	927.9	905.2	886.9	872.0	870.9	856.4	837.4	803.1
22.5°	926.4	932.0	920.1	901.8	889.1	881.3	879.8	871.6	860.9	831.8
25°	916.0	920.4	911.5	895.5	888.8	888.0	889.1	887.7	885.4	860.9
27.5°	915.2	920.1	910.0	894.7	891.0	898.8	899.9	907.0	908.9	887.3
30°	921.5	924.9	915.2	899.2	897.3	915.2	915.6	928.2	931.2	909.6
32.5°	935.3	939.0	929.4	905.9	903.3	928.2	929.4	946.1	951.0	933.5
35°	967.7	972.2	961.0	924.5	915.2	940.5	943.9	963.6	973.3	958.8
37.5°	1048.5	1035.5	1020.2	962.1	942.4	959.9	965.5	988.6	1005.7	988.9
40°	1249.2	1208.2	1160.6	1026.2	990.1	1001.2	1005.7	1028.8	1052.2	1035.9
42.5°	1550.4	1502.0	1425.3	1173.6	1061.9	1067.5	1070.9	1091.0	1124.1	1111.1
45°	1818.9	1801.4	1723.2	1425.3	1196.3	1168.8	1172.9	1183.3	1232.1	1227.2
47.5°	2025.2	2015.1	1954.8	1714.3	1423.5	1292.8	1304.3	1309.1	1379.5	1396.7
50°	2183.8	2180.1	2126.1	1971.2	1720.2	1475.6	1479.7	1469.3	1574.6	1617.1
52.5°	2333.5	2346.1	2306.3	2209.8	2037.1	1715.0	1714.3	1665.1	1807.3	1871.4
55°	2468.6	2473.1	2477.2	2453.4	2355.8	1987.6	1980.5	1900.1	2077.3	2143.6
57.5°	2595.6	2597.4	2633.9	2682.7	2687.6	2280.2	2267.2	2170.7	2372.2	2419.5
60°	2680.9	2689.4	2766.5	2902.0	2961.2	2582.2	2575.1	2476.8	2672.3	2694.3
62.5°	2558.0	2610.1	2804.5	3073.3	3219.6	2916.9	2913.6	2821.2	2988.0	2970.2
65°	2070.6	2158.8	2500.6	3189.1	3473.2	3290.7	3295.6	3197.3	3312.3	3254.3
67.5°	1448.4	1541.5	1945.9	3198.4	3756.5	3729.7	3757.7	3603.5	3656.8	3526.4
70°	1001.6	1049.6	1312.9	2998.1	3977.3	4334.4	4333.7	4102.5	3999.3	3650.4
72.5°	673.6	698.5	852.7	2378.5	3815.0	4693.7	4672.1	4483.7	4114.7	3414.0
75°	284.1	302.3	394.7	1336.7	3018.2	4294.2	4235.7	3962.4	3656.0	2688.3
77.5°	90.1	97.9	155.6	478.5	1662.5	3227.8	3166.0	2474.6	2450.4	1348.6
80°	42.8	49.9	87.5	192.1	654.2	1755.6	1747.0	1122.6	1054.1	364.1
82.5°	18.6	22.0	48.4	102.8	292.7	626.3	638.9	382.0	316.1	138.1
85°	6.0	7.8	22.3	47.3	123.6	155.6	153.8	90.9	127.3	75.2
87.5°	0.0	0.0	7.4	10.8	12.7	8.9	10.1	7.8	35.4	20.9
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°
597.6	0°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
605.1	2.5°	600.6	594.6	584.2	574.5	566.0	557.4	552.2	544.7	544.0	544.0
614.7	5°	604.7	595.0	576.4	556.6	533.9	512.3	490.7	469.9	463.2	458.4
630.4	7.5°	616.6	601.3	571.9	534.3	491.1	443.8	410.7	374.9	361.2	353.7
651.2	10°	633.7	612.9	568.2	502.3	432.3	367.9	320.6	281.9	267.0	260.6
673.9	12.5°	652.7	627.0	561.5	462.4	367.9	290.8	244.6	226.8	224.5	224.5
701.1	15°	675.4	644.1	549.9	415.5	300.5	230.1	213.7	214.5	216.7	218.2
727.6	17.5°	698.9	662.4	531.7	363.0	240.9	207.0	207.4	208.5	210.4	211.9
756.2	20°	724.2	680.6	507.5	307.2	206.6	200.3	201.4	202.6	204.0	204.8
783.0	22.5°	751.4	697.8	478.8	252.4	195.1	194.7	195.1	196.2	198.1	198.1
814.3	25°	780.4	716.8	446.1	212.6	189.1	189.1	189.9	190.6	192.1	192.1
844.5	27.5°	810.2	734.3	411.4	191.8	183.9	183.6	183.6	184.7	185.4	185.8
874.3	30°	843.0	754.7	376.8	187.3	179.8	178.0	176.9	177.6	178.4	178.7
905.5	32.5°	876.5	774.5	345.9	189.1	175.7	172.4	168.7	167.9	167.9	169.4
937.9	35°	913.7	796.1	322.1	195.5	173.5	164.2	158.2	154.9	155.3	157.5
976.6	37.5°	958.4	822.1	304.6	201.1	172.0	154.9	145.2	141.1	138.5	141.1
1029.9	40°	1016.9	860.5	291.9	205.5	170.2	144.1	131.1	124.4	119.5	121.0
1112.6	42.5°	1102.9	920.8	287.1	205.9	166.1	131.4	116.5	107.6	100.5	100.9
1236.9	45°	1223.5	1016.1	312.0	201.1	157.1	117.7	101.3	89.4	84.9	83.8
1422.7	47.5°	1388.8	1155.0	369.7	191.0	144.1	104.3	86.4	76.3	73.0	71.1
1666.6	50°	1610.4	1333.4	433.8	179.8	131.1	91.6	74.1	67.8	65.5	63.7
1955.9	52.5°	1867.3	1514.3	486.3	168.7	118.0	80.4	66.3	62.6	60.7	59.2
2235.2	55°	2103.0	1639.0	483.3	156.8	105.4	71.5	60.7	58.5	56.2	54.7
2475.7	57.5°	2249.7	1656.5	398.4	143.7	90.9	64.4	55.5	54.0	51.4	49.5
2683.8	60°	2317.1	1556.8	279.3	126.6	76.3	57.7	49.9	49.1	45.8	43.2
2880.8	62.5°	2329.4	1371.3	186.2	105.4	63.7	51.4	44.3	43.2	38.7	34.3
3040.9	65°	2279.5	1106.2	128.8	82.3	54.4	44.7	38.0	35.7	30.9	26.4
3078.9	67.5°	2121.6	776.7	89.7	59.2	46.2	35.4	30.2	29.4	25.7	22.0
2885.3	70°	1832.3	442.7	59.9	44.3	36.5	24.2	23.8	24.6	20.9	17.9
2357.3	72.5°	1404.8	202.6	37.2	32.4	24.9	16.4	19.0	19.4	16.0	13.4
1470.7	75°	827.0	86.8	23.5	20.9	12.7	10.8	13.8	14.1	10.8	8.6
537.7	77.5°	281.5	32.8	14.9	12.3	6.3	6.0	8.9	8.9	6.0	3.4
108.0	80°	64.0	12.3	7.4	4.8	3.0	2.6	3.0	2.6	1.5	0.4
33.1	82.5°	18.2	4.8	3.0	1.9	1.1	1.1	0.4	0.0	0.0	0.0
11.5	85°	5.2	2.2	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	2.2	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>
597.6
545.9
460.6
354.8
260.6
224.5
218.2
211.9
205.2
198.8
192.5
186.2
179.5
170.5
158.6
140.4
120.3
99.4
82.3
70.0
63.3
58.8
54.0
49.1
42.4
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