

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: P945522

Luminaire Tested: **GALN-SB1B-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4074 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

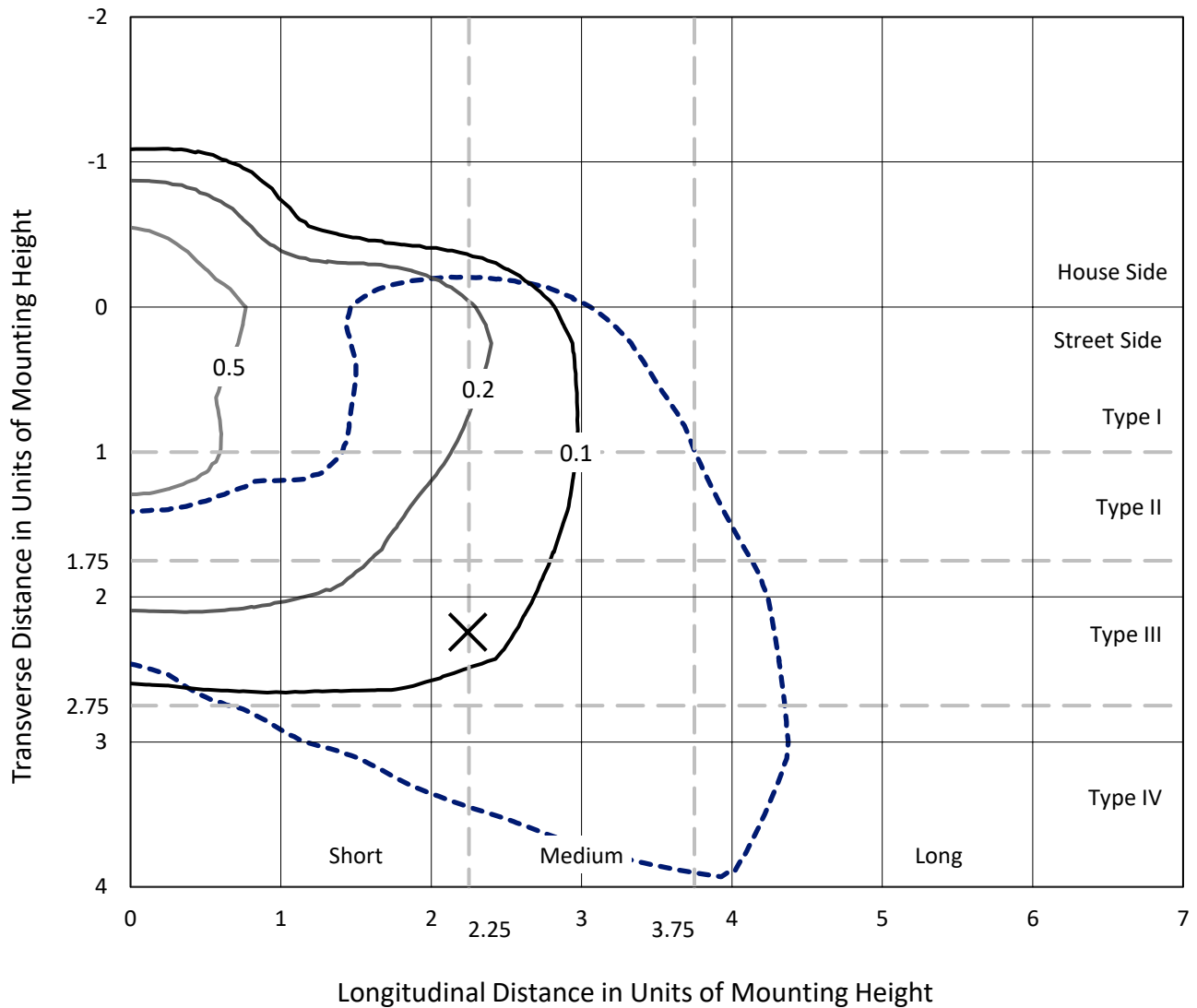
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

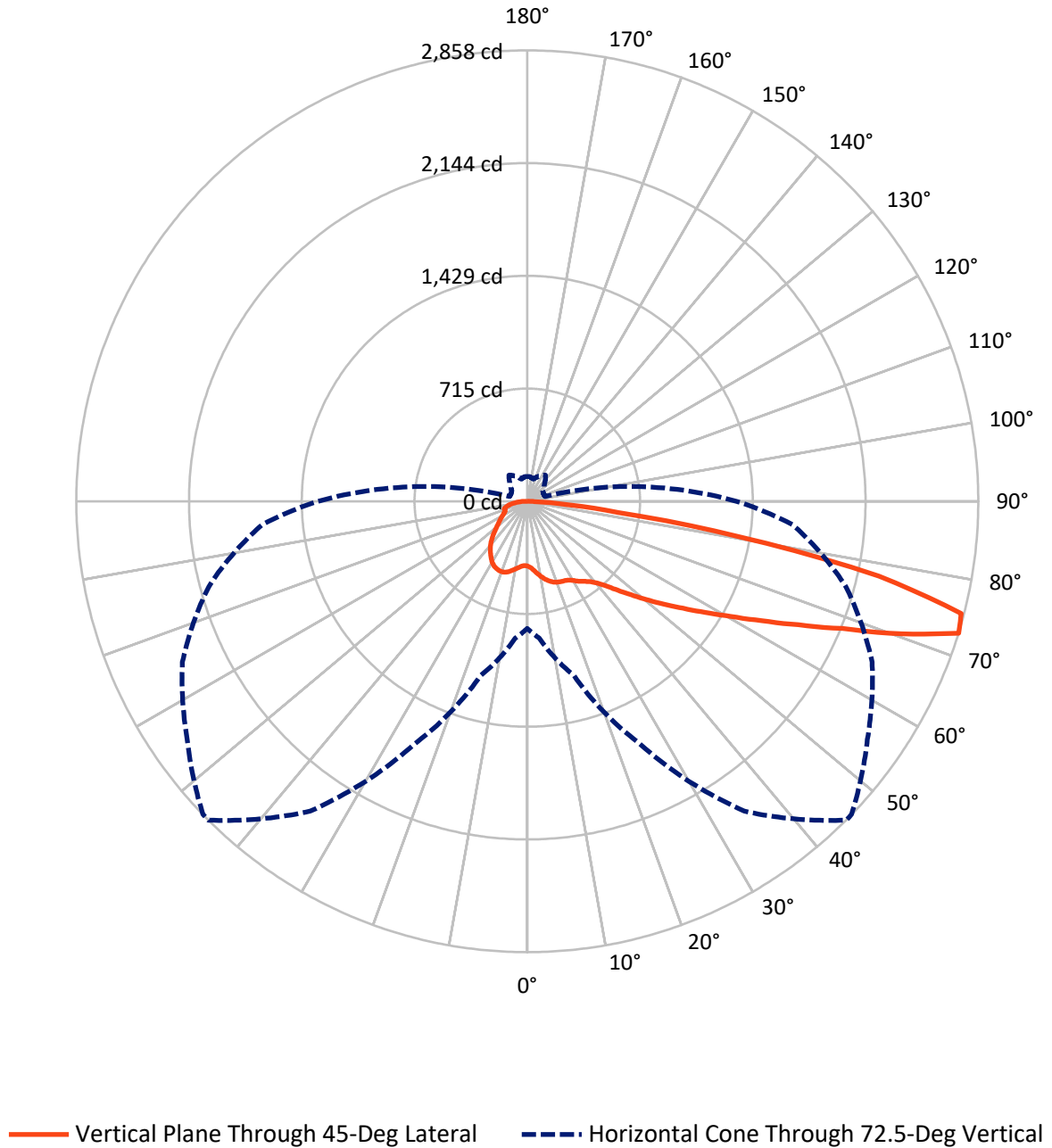
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	921.0	0.0	921.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	3153.0	0.0	3153.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	4074.0	0.0	4074.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	1.0
10°-20°	139.5	3.4
20°-30°	242.6	6.0
30°-40°	347.8	8.5
40°-50°	489.7	12.0
50°-60°	750.1	18.4
60°-70°	1086.6	26.7
70°-80°	867.7	21.3
80°-90°	108.1	2.7
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°	4074.0	100.0
0°-180°	4074.0	100.0

**Coefficient of Utilization**



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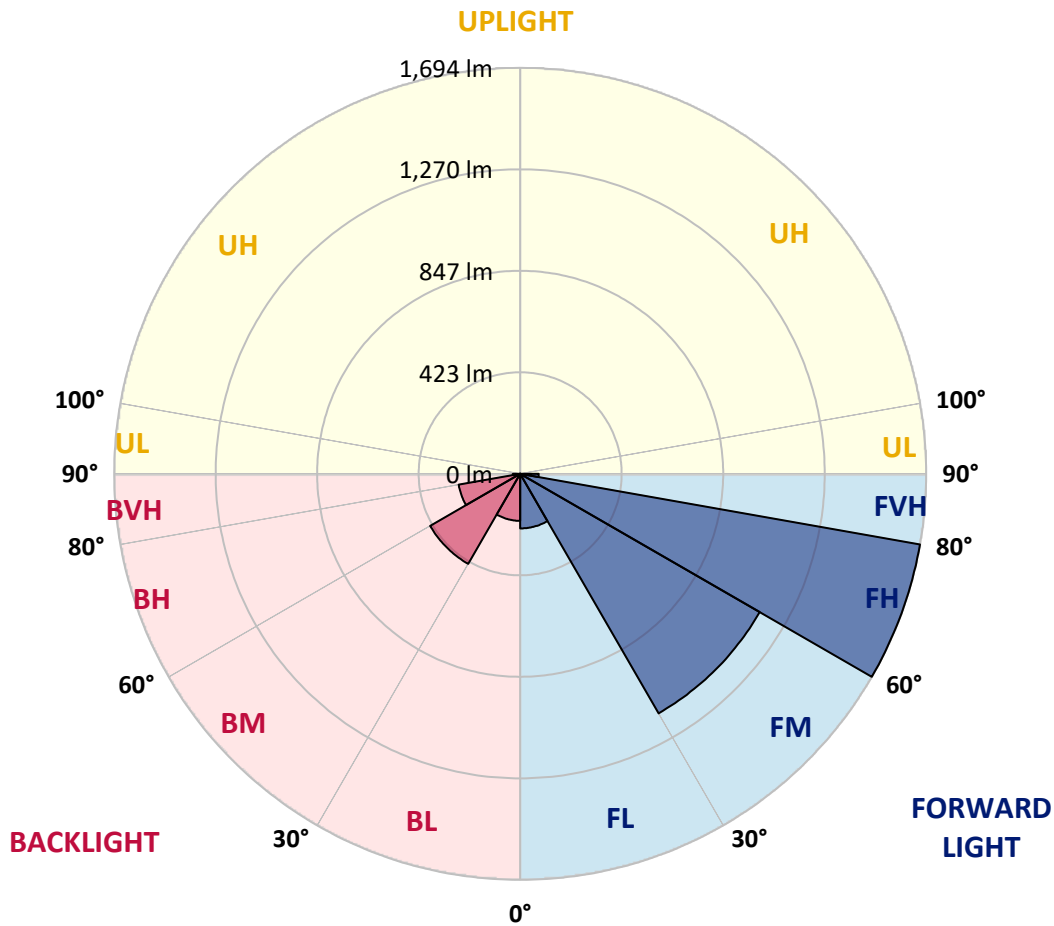
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.8	5.6			
FM (30°-60°)	1154.0	28.3			
FH (60°-80°)	1693.7	41.6			G1/1800
FVH (80°-90°)	77.5	1.9			G1/100
BL (0°-30°)	196.1	4.8	B1/500		
BM (30°-60°)	433.7	10.6	B1/1000		
BH (60°-80°)	260.7	6.4	B1/500		G1/500
BVH (80°-90°)	30.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	427.1	429.9	427.3	424.9	423.9	421.1	420.9	419.1	418.1	415.1
5°	456.9	460.6	456.3	451.5	447.3	440.4	439.5	434.6	429.0	422.6
7.5°	490.6	493.8	488.9	481.8	474.3	462.9	462.7	453.7	444.9	434.0
10°	520.0	524.3	517.7	508.0	498.6	485.7	484.2	473.9	462.7	448.5
12.5°	546.0	549.0	542.5	530.7	519.8	506.9	505.0	493.6	481.2	465.1
15°	566.6	570.4	561.9	549.2	537.6	524.9	523.2	512.9	500.5	483.5
17.5°	580.1	583.3	574.5	560.4	549.2	538.7	537.4	528.8	517.9	500.7
20°	585.3	588.7	579.5	565.1	554.8	546.6	546.0	539.8	532.2	516.6
22.5°	590.4	593.6	581.6	566.6	557.6	552.4	552.2	548.1	545.1	532.2
25°	611.2	612.1	596.0	574.3	561.4	556.9	556.7	556.5	557.8	547.7
27.5°	629.3	629.0	615.3	594.9	575.0	565.5	565.3	567.4	571.5	563.1
30°	655.6	653.3	637.0	615.7	597.5	582.9	581.6	579.7	582.9	576.2
32.5°	711.7	704.2	677.8	640.0	616.2	605.0	603.3	591.3	592.6	588.5
35°	791.9	782.1	746.9	685.9	639.3	623.5	622.6	607.4	604.8	601.1
37.5°	887.4	875.2	834.2	752.4	679.3	644.9	643.6	629.9	619.4	615.5
40°	983.4	967.9	934.0	833.6	738.1	680.8	676.7	655.9	643.8	637.4
42.5°	1076.5	1063.6	1034.7	924.6	810.6	733.1	724.1	688.5	679.5	673.5
45°	1158.9	1147.3	1126.1	1021.8	895.6	804.4	795.6	737.4	734.6	734.6
47.5°	1225.9	1223.3	1200.8	1120.9	995.8	885.5	870.3	805.4	813.0	824.5
50°	1300.1	1293.1	1269.0	1218.6	1113.6	978.4	966.0	888.9	917.0	948.8
52.5°	1368.4	1372.2	1345.4	1320.3	1246.7	1082.1	1060.2	987.4	1048.2	1100.8
55°	1438.6	1438.8	1431.3	1427.8	1386.2	1196.7	1172.7	1105.9	1202.5	1267.7
57.5°	1504.4	1504.9	1516.0	1546.3	1548.0	1328.9	1301.6	1251.4	1374.0	1440.5
60°	1563.3	1566.3	1596.7	1667.6	1690.3	1480.4	1454.7	1423.3	1551.2	1618.2
62.5°	1583.0	1593.9	1661.8	1762.4	1830.9	1666.3	1640.9	1622.3	1737.5	1799.8
65°	1549.5	1574.6	1705.8	1840.8	1975.5	1887.1	1862.0	1841.6	1931.1	1989.7
67.5°	1467.3	1499.7	1703.2	1922.9	2151.1	2152.8	2129.4	2081.5	2138.6	2161.2
70°	1250.8	1299.3	1553.2	1953.6	2352.6	2516.1	2493.6	2370.4	2345.7	2236.7
72.5°	805.9	871.1	1143.7	1701.0	2397.5	2858.0	2856.7	2631.2	2411.2	2089.9
75°	294.0	333.9	531.4	1067.7	2012.4	2840.6	2849.0	2586.5	2201.1	1614.3
77.5°	107.1	117.2	173.4	410.3	1237.7	2279.2	2296.6	2067.8	1566.7	810.2
80°	56.2	61.8	88.9	159.2	530.3	1353.6	1380.8	1228.9	736.3	244.0
82.5°	31.1	33.7	49.8	86.5	238.9	578.8	595.1	485.5	259.0	103.4
85°	16.7	17.8	23.4	47.2	116.8	200.7	205.2	145.1	103.2	60.7
87.5°	4.9	6.0	7.7	15.0	45.7	45.1	46.1	28.8	40.8	30.7
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°
411.0	0°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
414.2	2.5°	412.9	412.3	409.9	408.8	407.6	407.3	408.4	408.6	408.8	409.1
418.9	5°	416.8	414.6	412.5	411.2	411.6	411.8	414.0	415.5	416.6	417.4
427.7	7.5°	424.3	422.6	418.9	418.7	419.4	421.3	424.1	427.5	429.4	430.9
439.1	10°	435.5	432.2	427.9	428.6	429.9	432.7	438.5	441.2	444.5	447.3
453.1	12.5°	446.8	444.0	439.1	439.5	441.7	446.6	452.2	455.6	457.8	459.9
468.1	15°	461.6	456.7	451.3	451.3	455.2	460.6	463.1	465.9	467.2	469.6
484.2	17.5°	476.9	470.4	463.4	462.9	467.6	470.2	471.7	472.2	472.6	475.2
499.8	20°	492.1	485.0	474.9	474.1	475.2	474.7	474.5	474.1	474.7	477.9
515.9	22.5°	507.1	499.0	485.0	481.2	478.2	474.1	473.9	473.7	474.1	477.3
533.3	25°	524.7	514.9	496.2	484.6	474.5	468.9	469.6	469.8	470.2	472.8
551.3	27.5°	543.8	532.9	506.5	483.5	465.3	461.4	460.3	461.0	462.5	466.6
569.4	30°	562.9	550.1	515.9	479.2	453.7	448.3	444.9	446.4	451.1	455.2
585.0	32.5°	580.3	567.4	523.4	469.8	438.9	430.5	426.0	427.9	432.7	434.2
602.4	35°	600.7	586.1	526.7	454.8	422.8	409.9	403.9	401.1	403.5	402.0
622.8	37.5°	623.5	608.2	526.2	435.0	403.9	389.1	380.7	370.2	365.3	360.1
652.9	40°	657.2	635.3	521.1	411.2	380.5	367.0	352.0	334.2	323.0	312.9
701.4	42.5°	703.1	672.8	511.6	385.0	354.1	341.5	321.1	300.2	282.6	265.9
775.0	45°	771.5	722.0	499.8	357.1	325.6	313.1	291.0	267.6	247.7	226.2
879.5	47.5°	870.3	788.1	488.7	325.4	295.5	284.1	264.2	242.5	218.9	198.1
1030.6	50°	1005.9	882.9	478.4	294.5	265.9	257.3	241.4	219.3	195.5	178.8
1207.6	52.5°	1178.4	1011.9	474.1	264.6	238.2	235.0	222.3	201.7	179.2	165.0
1414.1	55°	1376.5	1166.2	474.1	236.1	214.0	215.0	206.2	187.1	167.6	155.0
1627.0	57.5°	1578.7	1322.5	465.5	209.7	193.4	197.9	192.3	175.6	158.0	144.9
1850.8	60°	1765.0	1453.4	430.7	185.6	175.1	182.2	178.6	164.2	142.7	131.8
2038.0	62.5°	1908.1	1527.2	363.8	166.5	160.1	168.3	166.3	149.2	139.9	135.4
2191.6	65°	1979.8	1515.2	278.1	149.6	147.4	160.1	156.0	155.4	148.1	142.9
2241.7	67.5°	1935.8	1411.7	201.7	137.1	140.1	152.6	168.3	170.8	157.3	147.2
2100.9	70°	1742.9	1224.6	150.2	125.3	130.9	152.8	191.9	178.8	154.3	142.5
1684.9	72.5°	1325.9	913.2	116.5	112.9	118.9	153.9	202.4	175.1	145.7	157.5
1049.7	75°	758.2	501.3	93.6	97.6	103.9	143.8	197.0	165.7	139.1	144.7
415.9	77.5°	289.1	192.7	77.3	82.6	83.5	125.5	188.4	165.0	132.4	129.2
124.7	80°	100.2	75.3	64.0	65.7	64.6	111.6	180.7	143.6	108.4	97.0
51.5	82.5°	41.0	37.6	50.6	48.5	45.9	86.7	145.9	117.4	88.6	78.3
24.9	85°	17.8	23.8	33.5	29.4	26.6	60.1	117.0	99.4	74.9	64.6
8.2	87.5°	3.6	9.0	14.2	13.3	13.7	40.1	83.1	70.6	53.0	39.7
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°  
411.0  
409.9  
417.9  
431.4  
446.6  
460.8  
470.4  
476.0  
479.2  
479.4  
476.2  
470.7  
459.7  
439.5  
406.7  
363.3  
313.6  
264.4  
223.6  
195.7  
177.7  
164.0  
153.7  
142.7  
130.1  
133.9  
141.2  
145.5  
140.6  
*156.2*  
144.7  
117.8  
93.8  
77.5  
64.4  
31.1  
0.0

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