

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: P945152

Luminaire Tested: **GALN-SB1A-940-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1A-940-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

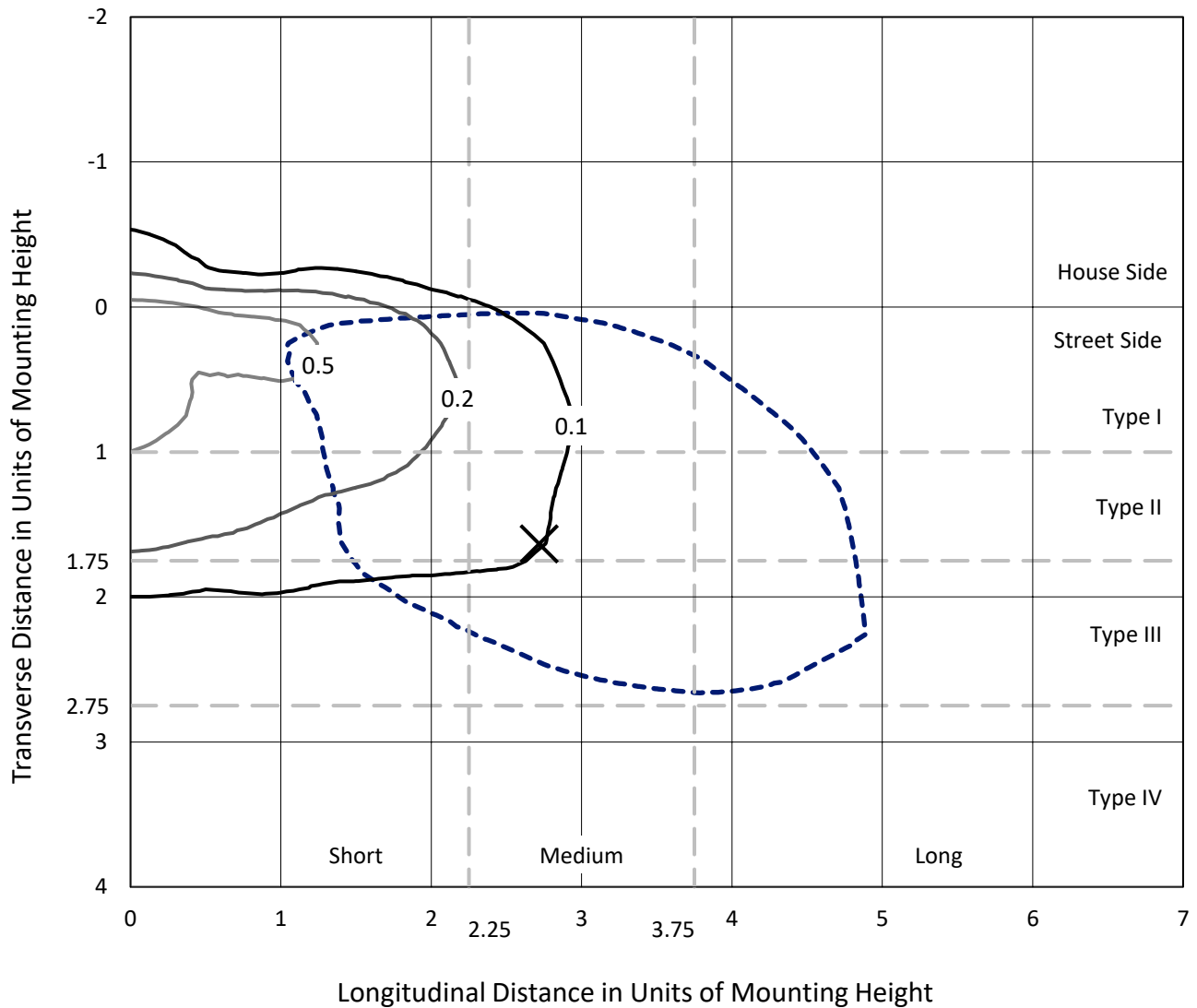
Lumens per Lamp: N/A  
Luminaire Lumens: 2619 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

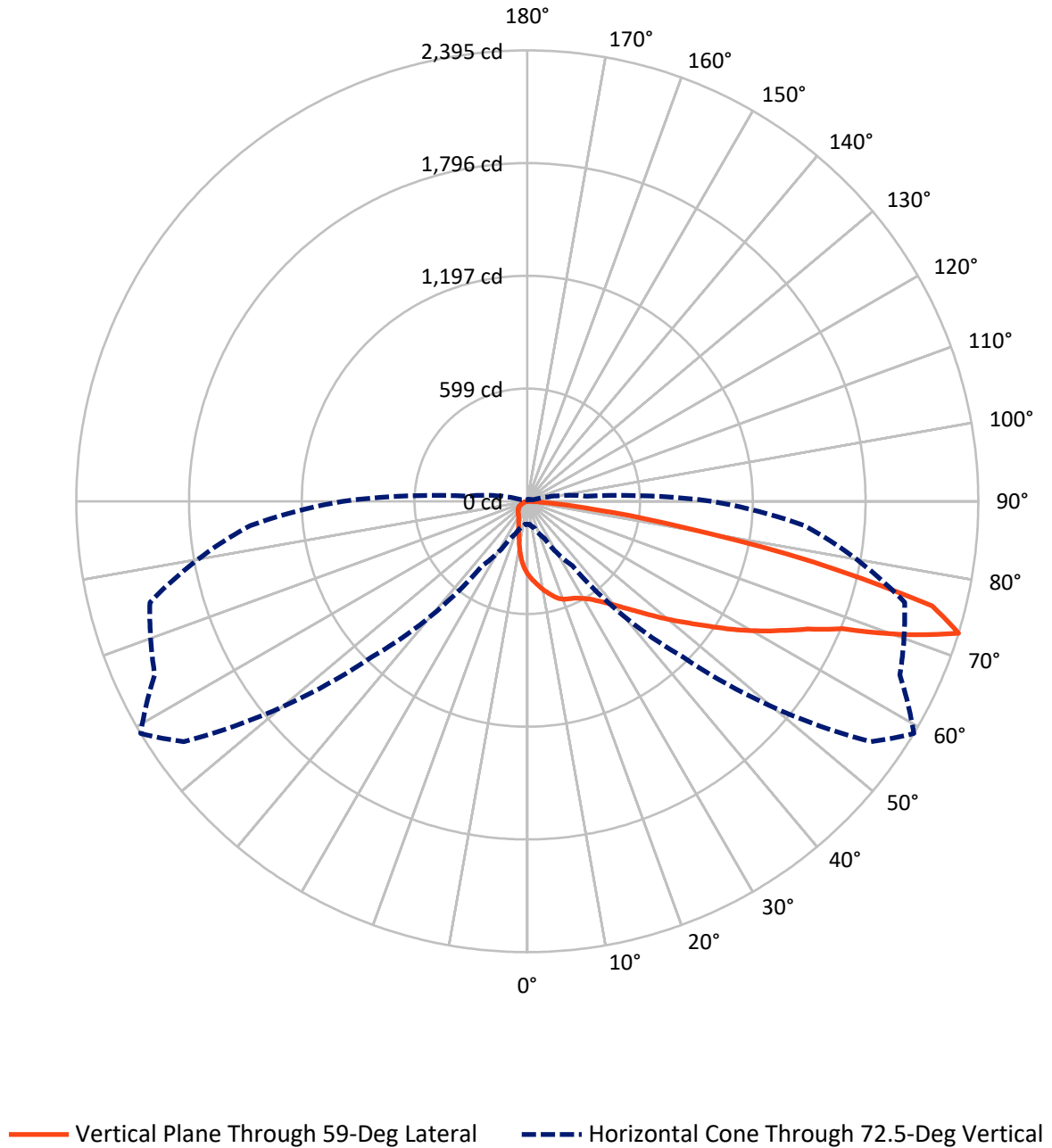
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - 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	276.6	0.0	276.6
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	2342.4	0.0	2342.4
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	2619.0	0.0	2619.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.0	1.3
10°-20°	93.1	3.6
20°-30°	147.5	5.6
30°-40°	236.7	9.0
40°-50°	378.1	14.4
50°-60°	547.4	20.9
60°-70°	649.6	24.8
70°-80°	482.3	18.4
80°-90°	49.3	1.9
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°	2619.0	100.0
0°-180°	2619.0	100.0

**Coefficient of Utilization**



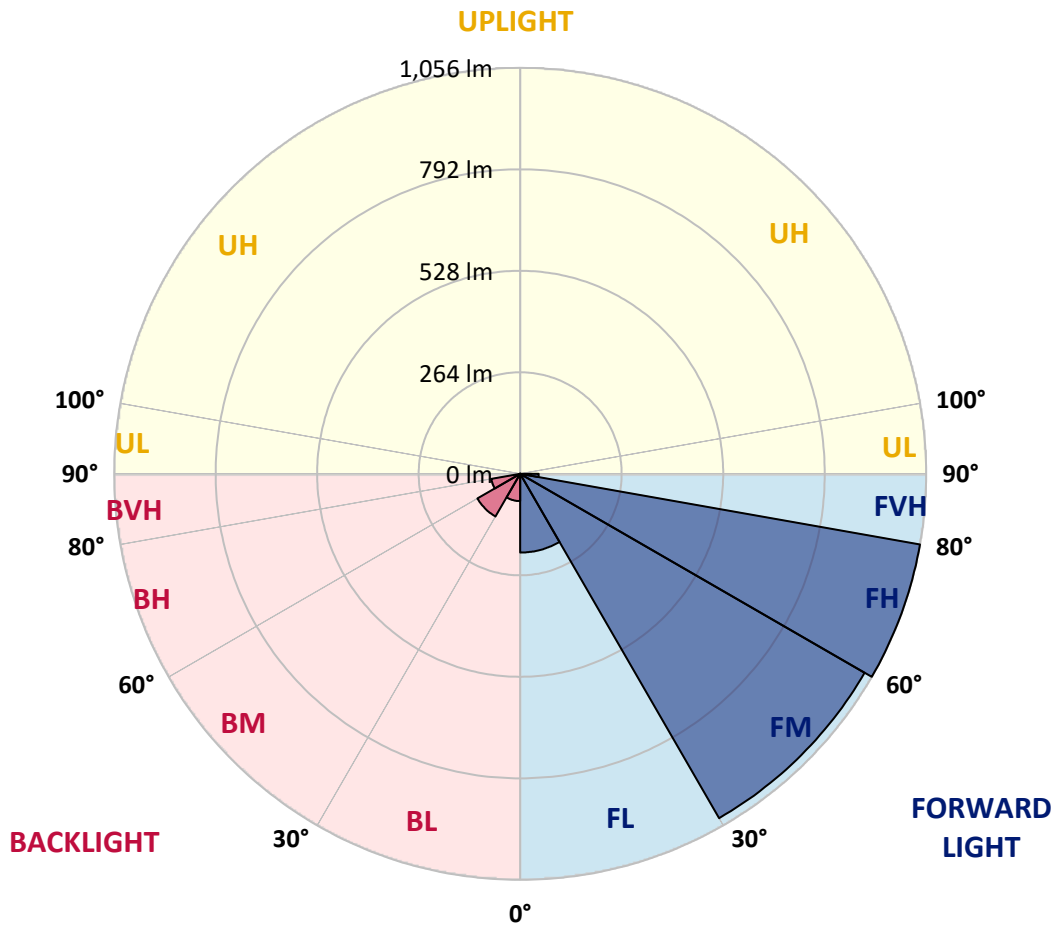
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.7	7.8			
FM (30°-60°)	1033.9	39.5			
FH (60°-80°)	1055.6	40.3			G1/1800
FVH (80°-90°)	48.1	1.8			G1/100
BL (0°-30°)	70.9	2.7	B0/110		
BM (30°-60°)	128.2	4.9	B0/220		
BH (60°-80°)	76.3	2.9	B0/110		G0/110
BVH (80°-90°)	1.2	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3
2.5°	429.7	427.3	427.6	423.5	420.6	417.6	411.6	410.7	406.4	398.9
5°	467.1	465.6	464.2	459.6	453.6	446.1	436.0	432.4	424.6	411.6
7.5°	494.5	492.6	493.3	488.7	483.9	475.5	461.7	455.0	444.6	424.7
10°	499.8	498.8	503.2	504.9	504.9	499.6	486.1	479.5	464.2	438.9
12.5°	470.0	470.2	481.3	494.7	512.1	517.1	508.0	500.8	485.8	454.0
15°	435.3	435.5	446.3	463.4	491.9	520.5	527.7	523.1	507.5	470.2
17.5°	414.5	413.6	420.8	434.8	464.7	504.9	539.6	542.7	530.1	488.2
20°	411.6	410.0	413.8	420.8	442.2	485.4	541.0	555.5	553.3	508.5
22.5°	429.4	427.0	424.9	425.2	434.3	469.2	537.6	562.7	577.3	533.0
25°	464.6	460.8	454.1	445.6	443.7	465.8	535.2	570.6	599.5	564.3
27.5°	507.7	502.4	489.5	476.7	465.8	475.3	540.2	583.1	624.6	600.7
30°	555.0	548.5	535.7	511.4	494.0	496.7	551.9	599.5	656.8	641.9
32.5°	624.6	609.6	587.2	550.1	527.0	519.8	569.7	620.3	696.6	696.8
35°	684.3	675.9	653.3	607.2	559.8	550.4	593.2	649.8	751.8	769.4
37.5°	723.5	712.0	692.2	657.4	610.8	581.9	624.4	685.8	810.3	852.2
40°	767.2	755.9	729.6	696.9	669.9	635.9	663.9	727.4	874.4	937.2
42.5°	820.1	805.4	774.2	739.0	710.8	707.0	715.6	779.2	940.3	1029.5
45°	882.1	868.3	832.5	788.1	763.3	756.6	780.6	839.6	1013.6	1130.7
47.5°	940.3	924.2	885.7	845.2	817.7	796.6	849.6	910.9	1096.7	1236.6
50°	989.7	973.3	938.0	894.8	876.1	848.6	917.5	990.4	1179.1	1344.1
52.5°	1023.5	1009.0	967.6	938.2	925.6	911.7	997.0	1074.7	1261.2	1442.6
55°	1015.8	1002.8	966.4	964.4	963.5	978.1	1092.1	1170.2	1344.8	1535.8
57.5°	991.4	976.7	931.2	962.5	992.8	1037.2	1195.0	1283.3	1436.5	1623.7
60°	919.4	914.3	886.6	958.9	1005.1	1095.2	1312.7	1396.8	1535.6	1701.0
62.5°	767.1	771.5	771.3	966.4	1027.3	1161.2	1419.5	1511.7	1632.6	1775.4
65°	574.3	589.7	609.4	898.7	1057.0	1279.0	1547.3	1636.4	1731.1	1861.9
67.5°	385.9	398.2	411.6	737.3	968.5	1402.8	1759.5	1807.2	1849.1	1957.8
70°	220.9	224.8	243.5	460.5	746.5	1368.6	2105.0	2122.3	2025.0	2076.0
72.5°	123.8	122.4	147.0	218.5	417.2	1172.0	2226.1	2394.5	2182.5	2074.1
75°	82.8	82.9	101.2	137.8	162.6	820.4	1918.3	2220.3	2088.1	1839.1
77.5°	56.4	58.3	74.4	106.5	75.2	400.3	1269.1	1555.3	1690.6	1420.2
80°	24.5	24.6	49.1	76.4	50.8	127.4	658.0	833.2	1060.3	797.5
82.5°	12.7	14.4	31.3	49.4	32.0	44.6	310.9	364.0	444.9	234.1
85°	4.4	5.3	19.3	24.3	16.1	15.9	108.2	110.3	94.2	35.2
87.5°	0.0	0.9	7.5	6.0	2.1	1.9	12.8	10.8	8.5	5.0
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°
387.3	0°	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3
391.2	2.5°	387.6	383.0	375.5	366.3	355.5	349.7	341.3	336.2	331.5	331.7
396.5	5°	388.1	380.4	361.3	340.9	318.4	301.8	283.3	270.3	260.4	258.0
402.0	7.5°	389.7	376.7	345.4	311.5	273.9	246.1	220.6	204.5	195.4	193.0
407.6	10°	391.7	372.6	327.4	275.6	229.0	195.4	174.2	164.0	159.9	156.8
414.8	12.5°	393.4	368.3	304.9	238.5	188.9	162.8	146.7	138.2	134.6	132.3
423.2	15°	396.4	362.7	280.4	204.0	161.9	140.6	125.3	119.0	118.0	118.3
432.4	17.5°	399.3	357.2	253.1	177.0	142.1	121.1	111.8	110.8	112.2	113.5
443.0	20°	402.5	349.3	225.4	156.6	123.8	107.6	105.2	105.8	106.5	108.9
457.6	22.5°	407.3	339.4	201.1	139.4	108.6	101.1	99.9	100.4	100.9	103.3
476.7	25°	414.1	328.8	181.4	123.5	99.0	95.8	94.6	94.6	95.2	97.5
498.9	27.5°	421.3	313.8	165.5	108.7	93.4	89.9	87.9	87.9	88.7	91.3
526.8	30°	429.4	300.1	153.0	97.8	88.6	84.1	81.4	80.7	81.7	85.0
567.2	32.5°	443.9	291.2	144.1	92.7	84.3	78.8	75.1	73.2	74.2	78.0
623.6	35°	465.9	289.1	138.0	90.1	80.2	74.0	68.7	65.8	66.7	70.6
693.2	37.5°	491.8	293.4	132.0	86.7	76.3	69.4	62.4	58.6	60.0	63.6
772.7	40°	528.9	311.2	127.4	84.1	72.3	63.9	56.1	52.3	54.5	57.6
855.5	42.5°	573.7	342.8	126.2	81.7	67.5	58.1	50.3	47.5	49.2	52.2
939.1	45°	629.2	383.2	131.7	78.7	62.2	52.5	45.7	44.1	44.6	47.5
1018.1	47.5°	688.9	424.6	146.7	75.9	57.6	47.9	42.1	40.7	40.4	43.1
1090.2	50°	749.3	461.3	164.5	73.9	54.4	44.1	39.3	37.6	36.8	38.5
1161.5	52.5°	808.9	490.6	176.1	70.4	51.1	40.4	36.9	34.4	32.8	33.7
1232.5	55°	869.5	516.2	176.8	65.3	48.0	38.0	34.5	31.6	29.8	29.8
1300.9	57.5°	926.1	538.8	166.7	58.5	43.8	35.7	31.3	28.9	26.8	26.2
1361.6	60°	976.2	555.5	150.0	50.8	40.0	32.8	28.0	26.2	23.6	22.2
1415.6	62.5°	1020.8	563.7	127.0	42.9	35.4	29.4	25.0	22.9	19.5	17.8
1470.5	65°	1058.6	555.4	103.1	35.6	31.5	25.6	21.4	19.3	15.6	13.5
1532.2	67.5°	1096.0	517.1	78.0	29.9	27.4	21.5	17.6	15.7	13.0	11.3
1577.2	70°	1100.8	436.5	54.5	25.1	22.7	16.6	14.2	13.0	10.6	9.1
1476.8	72.5°	979.9	314.1	33.2	20.5	17.8	11.8	11.3	10.3	7.9	6.8
1206.7	75°	783.3	192.5	19.5	15.4	11.8	8.4	8.4	7.4	5.3	4.4
833.1	77.5°	541.3	100.7	11.5	9.9	7.0	5.0	5.5	4.4	2.6	2.1
330.0	80°	216.8	38.3	6.2	4.6	3.2	2.2	1.9	1.0	0.5	0.3
67.7	82.5°	43.3	10.1	2.1	1.2	1.2	0.5	0.0	0.0	0.0	0.0
18.6	85°	11.1	2.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	3.4	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>
387.3
335.5
261.6
195.4
158.7
133.5
118.8
114.0
109.6
104.0
98.3
92.3
85.8
79.0
71.8
64.6
58.1
52.7
48.9
44.8
39.2
34.4
30.1
26.3
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