

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: P945005

Luminaire Tested: **GALN-SB1A-830-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945005
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-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 3247 lumens
Efficiency: N/A
Efficacy: 105.1 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

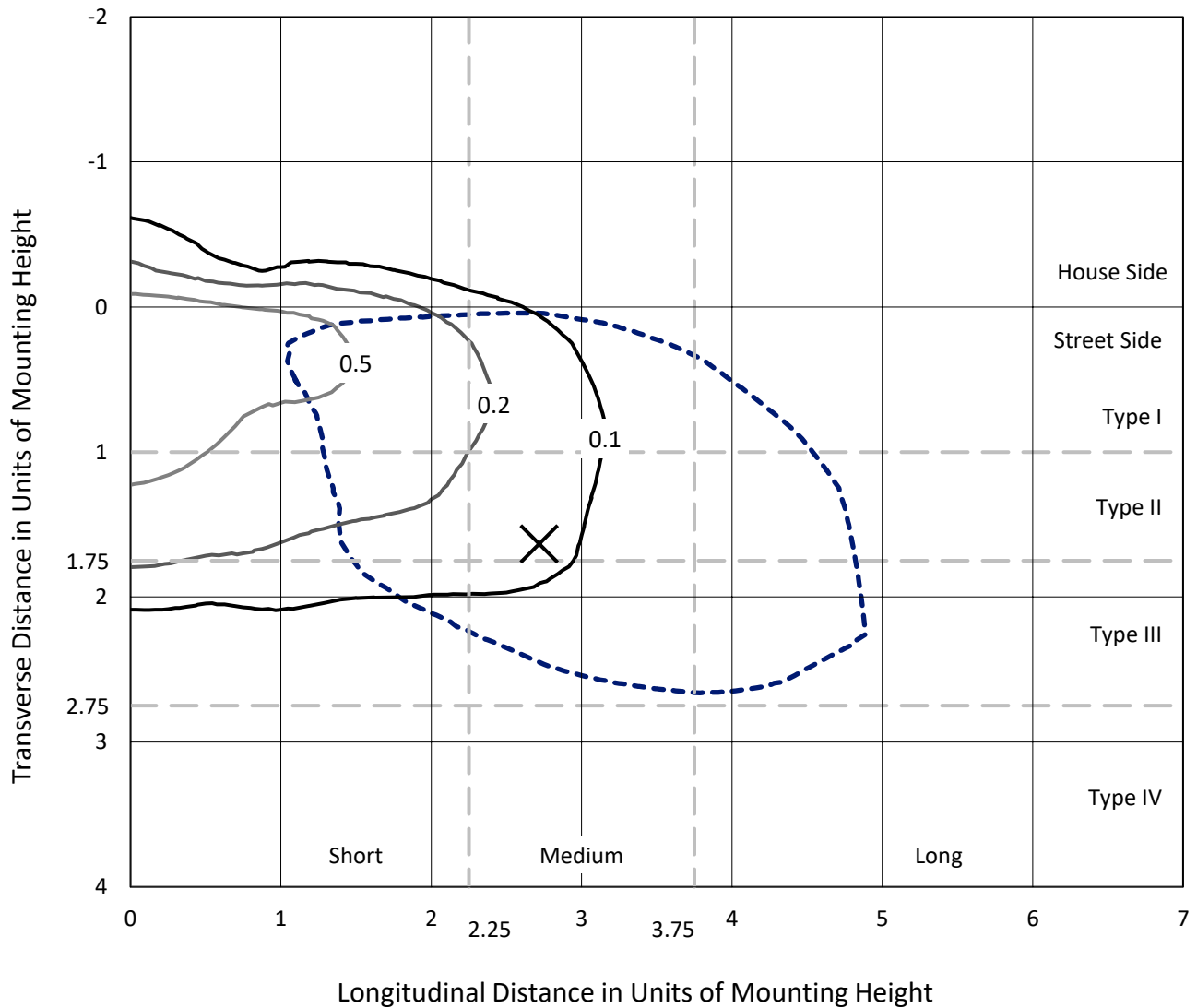
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

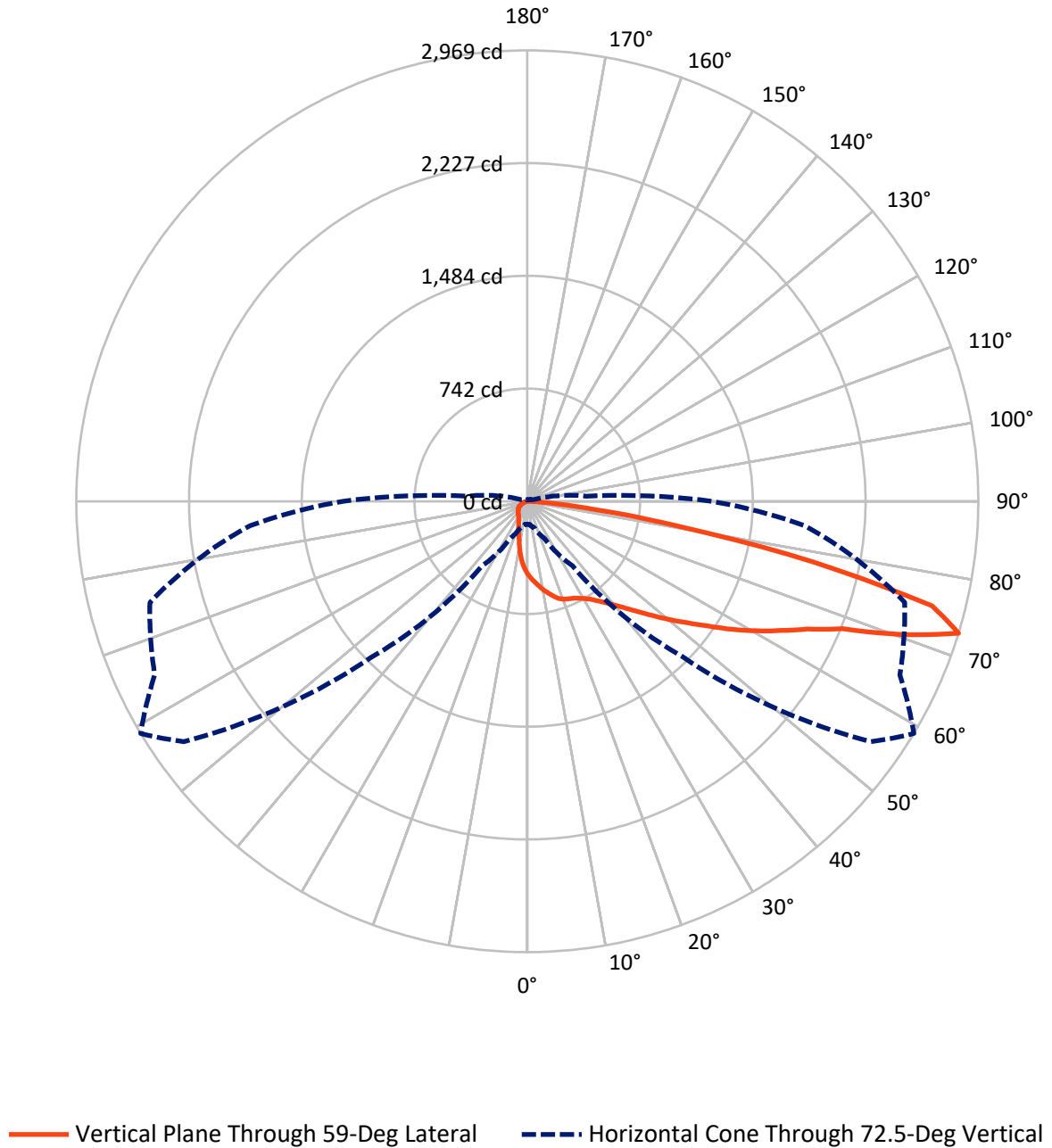
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	342.9	0.0	342.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2904.1	0.0	2904.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	3247.0	0.0	3247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.3
10°-20°	115.4	3.6
20°-30°	182.9	5.6
30°-40°	293.5	9.0
40°-50°	468.7	14.4
50°-60°	678.7	20.9
60°-70°	805.4	24.8
70°-80°	597.9	18.4
80°-90°	61.1	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°	3247.0	100.0
0°-180°	3247.0	100.0

Coefficient of Utilization



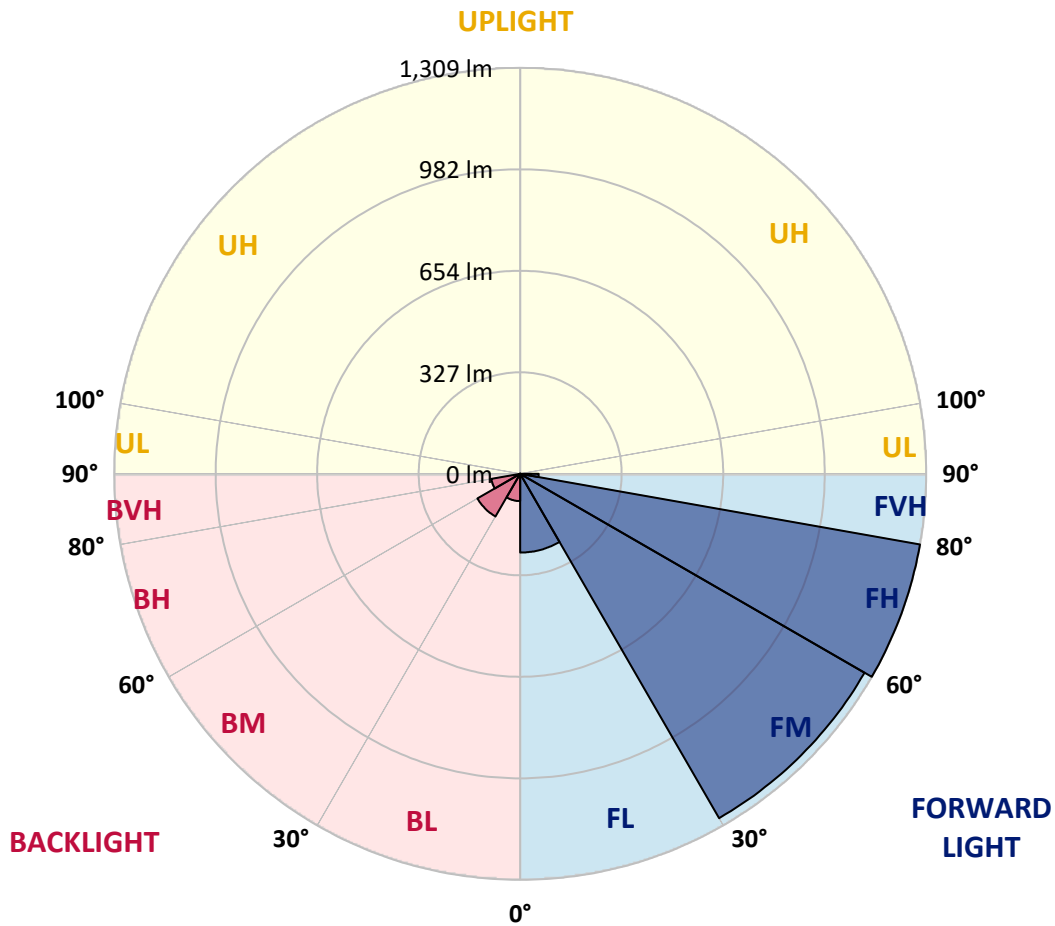
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.8	7.8			
FM (30°-60°)	1281.9	39.5			
FH (60°-80°)	1308.7	40.3			G1/1800
FVH (80°-90°)	59.6	1.8			G1/100
BL (0°-30°)	87.9	2.7	B0/110		
BM (30°-60°)	159.0	4.9	B0/220		
BH (60°-80°)	94.6	2.9	B0/110		G0/110
BVH (80°-90°)	1.5	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°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2
2.5°	532.7	529.8	530.2	525.1	521.5	517.7	510.3	509.2	503.9	494.6
5°	579.2	577.2	575.5	569.8	562.4	553.1	540.6	536.1	526.4	510.3
7.5°	613.1	610.7	611.6	605.9	599.9	589.5	572.4	564.1	551.2	526.6
10°	619.6	618.4	623.9	626.0	626.0	619.4	602.7	594.4	575.5	544.2
12.5°	582.8	583.0	596.7	613.3	634.9	641.1	629.8	620.9	602.3	562.8
15°	539.7	539.9	553.3	574.5	609.9	645.3	654.2	648.5	629.2	583.0
17.5°	513.9	512.8	521.7	539.1	576.2	626.0	669.0	672.9	657.2	605.2
20°	510.3	508.3	513.0	521.7	548.2	601.8	670.7	688.8	686.0	630.5
22.5°	532.3	529.3	526.8	527.2	538.5	581.7	666.5	697.7	715.7	660.8
25°	576.0	571.3	563.0	552.4	550.1	577.5	663.5	707.4	743.2	699.6
27.5°	629.4	622.8	606.9	591.0	577.5	589.3	669.7	722.9	774.4	744.7
30°	688.1	680.1	664.2	634.1	612.4	615.8	684.3	743.2	814.2	795.8
32.5°	774.4	755.7	728.0	682.0	653.3	644.4	706.3	769.1	863.6	863.9
35°	848.4	838.0	810.0	752.8	694.1	682.4	735.4	805.6	932.1	953.9
37.5°	896.9	882.7	858.1	815.1	757.2	721.4	774.2	850.3	1004.6	1056.6
40°	951.2	937.2	904.6	864.1	830.6	788.4	823.2	901.8	1084.1	1161.9
42.5°	1016.7	998.5	959.9	916.2	881.2	876.6	887.2	966.0	1165.7	1276.4
45°	1093.6	1076.5	1032.2	977.1	946.3	938.0	967.7	1040.9	1256.7	1401.9
47.5°	1165.7	1145.8	1098.1	1047.9	1013.7	987.7	1053.4	1129.3	1359.7	1533.1
50°	1227.0	1206.6	1163.0	1109.3	1086.2	1052.1	1137.5	1227.8	1461.9	1666.4
52.5°	1269.0	1250.9	1199.6	1163.2	1147.5	1130.3	1236.1	1332.3	1563.6	1788.5
55°	1259.4	1243.3	1198.2	1195.6	1194.6	1212.6	1354.0	1450.8	1667.3	1904.1
57.5°	1229.1	1210.9	1154.5	1193.3	1230.8	1285.9	1481.6	1591.0	1780.9	2013.0
60°	1139.9	1133.5	1099.2	1188.8	1246.1	1357.8	1627.4	1731.7	1903.9	2108.9
62.5°	951.0	956.5	956.3	1198.2	1273.6	1439.6	1759.9	1874.2	2024.1	2201.1
65°	712.1	731.1	755.5	1114.2	1310.5	1585.7	1918.3	2028.7	2146.2	2308.3
67.5°	478.5	493.7	510.3	914.1	1200.7	1739.2	2181.4	2240.5	2292.4	2427.3
70°	273.9	278.8	301.9	570.9	925.5	1696.8	2609.8	2631.2	2510.6	2573.8
72.5°	153.5	151.8	182.3	270.9	517.3	1453.0	2759.9	2968.7	2705.8	2571.4
75°	102.6	102.8	125.5	170.9	201.6	1017.1	2378.3	2752.7	2588.8	2280.1
77.5°	70.0	72.3	92.2	132.1	93.3	496.3	1573.4	1928.2	2095.9	1760.8
80°	30.3	30.5	60.8	94.8	63.0	157.9	815.7	1033.0	1314.5	988.7
82.5°	15.7	17.8	38.8	61.3	39.6	55.3	385.4	451.3	551.6	290.2
85°	5.5	6.6	24.0	30.1	19.9	19.7	134.2	136.7	116.8	43.7
87.5°	0.0	1.1	9.3	7.4	2.5	2.3	15.9	13.4	10.6	6.1
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°
480.2	0°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2
485.0	2.5°	480.6	474.9	465.5	454.1	440.7	433.5	423.1	416.8	411.0	411.3
491.6	5°	481.2	471.7	447.9	422.7	394.7	374.2	351.3	335.2	322.9	319.9
498.4	7.5°	483.1	467.0	428.2	386.2	339.6	305.1	273.5	253.5	242.3	239.3
505.4	10°	485.7	461.9	406.0	341.7	283.9	242.3	216.0	203.3	198.2	194.4
514.3	12.5°	487.8	456.6	378.0	295.7	234.2	201.8	181.9	171.3	166.8	164.1
524.7	15°	491.4	449.6	347.7	252.9	200.8	174.3	155.4	147.5	146.3	146.7
536.1	17.5°	495.0	442.8	313.7	219.4	176.2	150.1	138.6	137.4	139.1	140.8
549.3	20°	499.0	433.1	279.4	194.2	153.5	133.3	130.4	131.2	132.1	135.0
567.3	22.5°	505.0	420.8	249.3	172.8	134.6	125.3	123.8	124.4	125.1	128.0
591.0	25°	513.4	407.7	224.9	153.1	122.7	118.7	117.2	117.2	118.1	120.8
618.6	27.5°	522.3	389.0	205.2	134.8	115.7	111.5	109.0	109.0	110.0	113.2
653.1	30°	532.3	372.0	189.7	121.3	109.8	104.3	100.9	100.1	101.3	105.4
703.2	32.5°	550.3	361.0	178.7	114.9	104.5	97.7	93.1	90.7	92.0	96.7
773.1	35°	577.7	358.5	171.1	111.7	99.4	91.8	85.2	81.6	82.7	87.6
859.4	37.5°	609.7	363.8	163.7	107.5	94.5	86.1	77.4	72.7	74.4	78.9
958.0	40°	655.7	385.8	157.9	104.3	89.7	79.3	69.5	64.9	67.6	71.4
1060.6	42.5°	711.2	425.0	156.4	101.3	83.7	72.1	62.3	58.9	61.1	64.7
1164.2	45°	780.1	475.1	163.2	97.5	77.2	65.1	56.6	54.7	55.3	58.9
1262.2	47.5°	854.1	526.4	181.9	94.1	71.4	59.4	52.1	50.5	50.0	53.4
1351.6	50°	928.9	571.9	203.9	91.6	67.4	54.7	48.8	46.6	45.6	47.7
1440.0	52.5°	1002.9	608.2	218.3	87.3	63.4	50.0	45.8	42.6	40.7	41.8
1528.0	55°	1078.0	640.0	219.2	81.0	59.6	47.1	42.8	39.2	36.9	36.9
1612.8	57.5°	1148.1	668.0	206.7	72.5	54.3	44.3	38.8	35.8	33.3	32.4
1688.1	60°	1210.2	688.8	185.9	63.0	49.6	40.7	34.8	32.4	29.3	27.6
1755.1	62.5°	1265.6	698.9	157.5	53.2	43.9	36.5	31.0	28.4	24.2	22.0
1823.1	65°	1312.4	688.5	127.8	44.1	39.0	31.8	26.5	24.0	19.3	16.7
1899.6	67.5°	1358.8	641.1	96.7	37.1	33.9	26.7	21.8	19.5	16.1	14.0
1955.4	70°	1364.8	541.2	67.6	31.2	28.2	20.6	17.6	16.1	13.1	11.2
1830.9	72.5°	1214.9	389.4	41.1	25.4	22.0	14.6	14.0	12.7	9.8	8.5
1496.0	75°	971.1	238.7	24.2	19.1	14.6	10.4	10.4	9.1	6.6	5.5
1032.8	77.5°	671.2	124.9	14.2	12.3	8.7	6.1	6.8	5.5	3.2	2.5
409.1	80°	268.8	47.5	7.6	5.7	4.0	2.8	2.3	1.3	0.6	0.4
83.9	82.5°	53.6	12.5	2.5	1.5	1.5	0.6	0.0	0.0	0.0	0.0
23.1	85°	13.8	2.8	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0
7.6	87.5°	4.2	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>
480.2
415.9
324.3
242.3
196.7
165.6
147.3
141.4
135.9
128.9
121.9
114.5
106.4
97.9
89.0
80.1
72.1
65.3
60.6
55.5
48.5
42.6
37.3
32.6
27.1
21.8
16.7
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