

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: P938748

Luminaire Tested: **GALN-SB1A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3397 lumens
Efficiency: N/A
Efficacy: 109.9 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

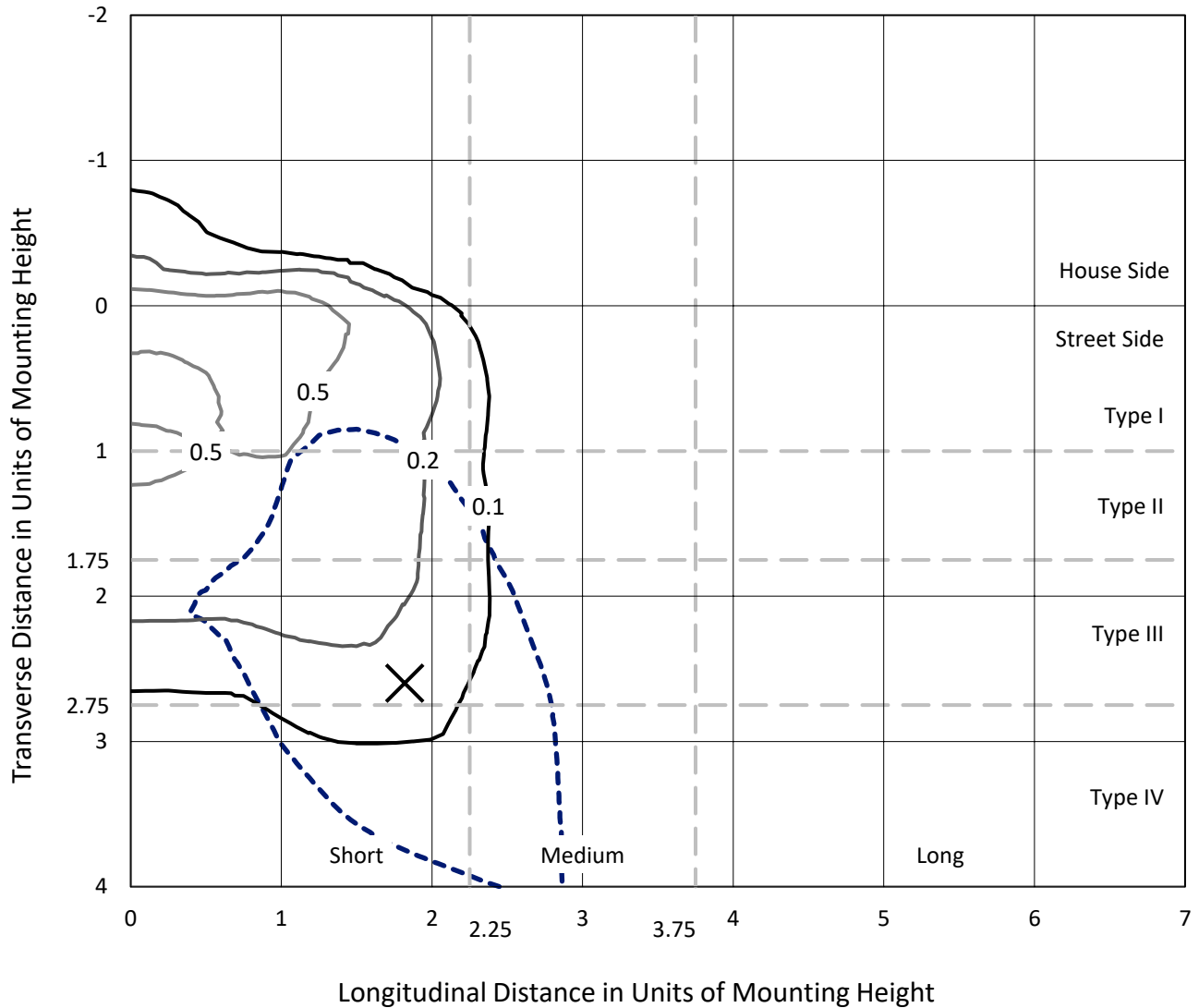
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

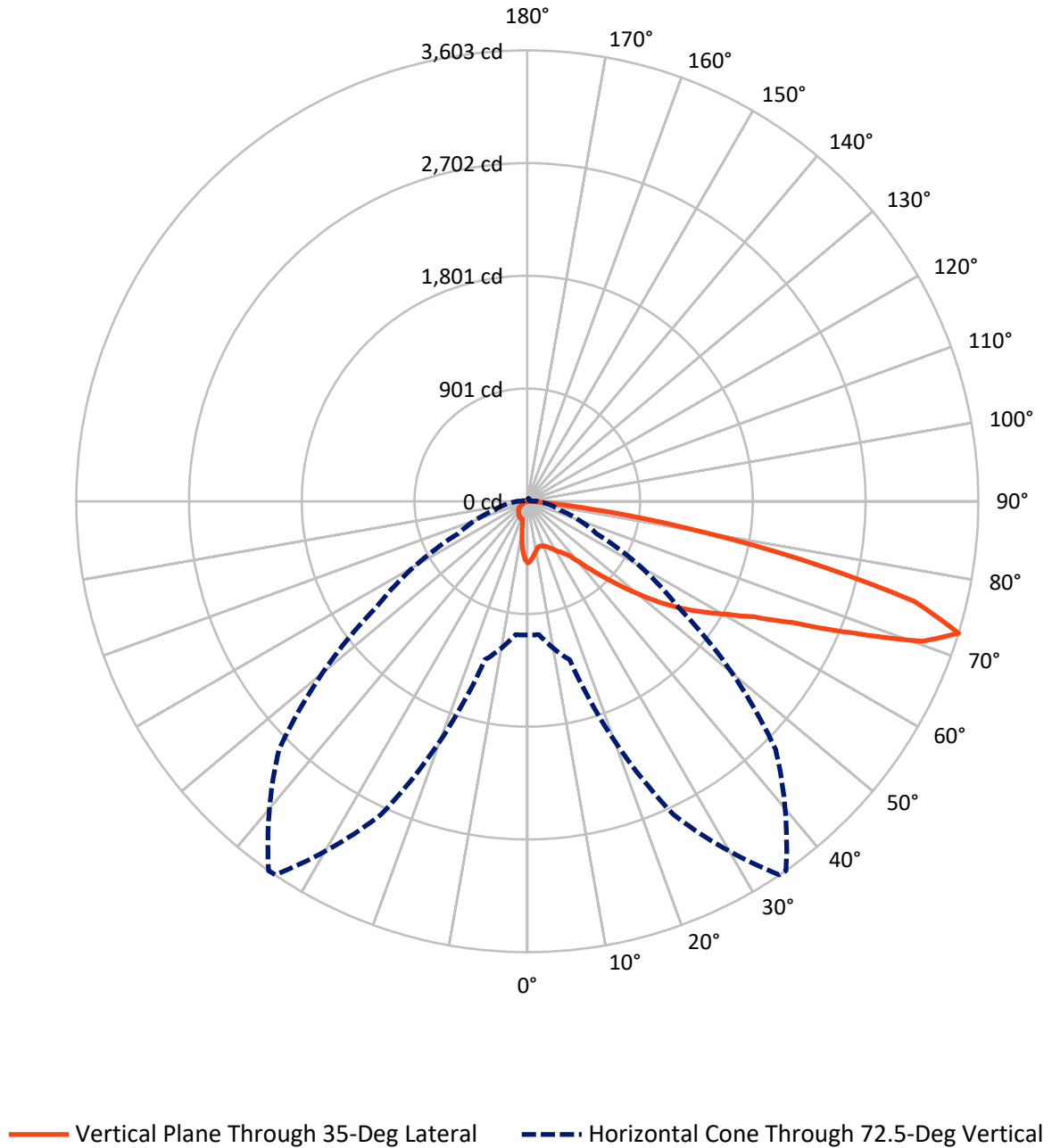
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.3	0.0	382.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	3014.7	0.0	3014.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	3397.0	0.0	3397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.2
10°-20°	94.6	2.8
20°-30°	153.7	4.5
30°-40°	256.5	7.6
40°-50°	485.4	14.3
50°-60°	771.2	22.7
60°-70°	954.1	28.1
70°-80°	593.0	17.5
80°-90°	47.9	1.4
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°	3397.0	100.0
0°-180°	3397.0	100.0

Coefficient of Utilization



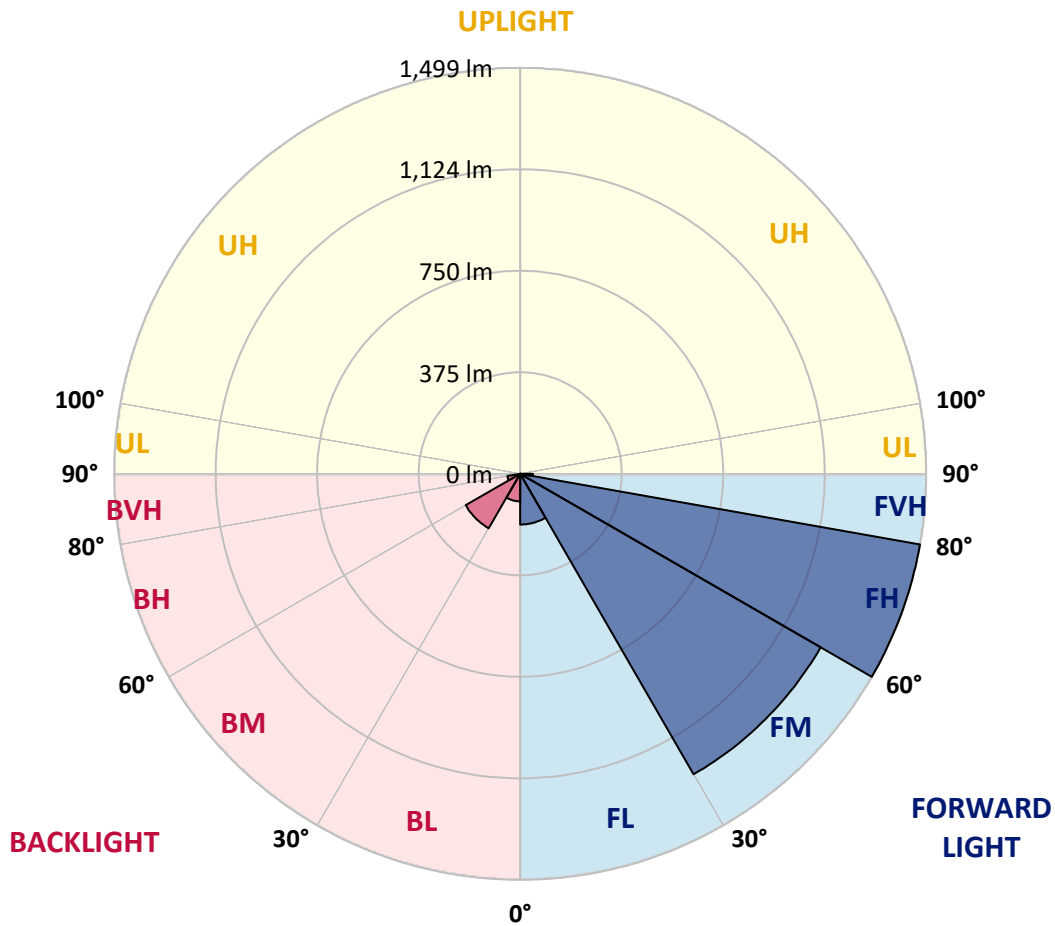
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.3	5.5			
FM (30°-60°)	1281.0	37.7			
FH (60°-80°)	1499.1	44.1			G1/1800
FVH (80°-90°)	47.3	1.4			G1/100
BL (0°-30°)	101.6	3.0	B0/110		
BM (30°-60°)	232.1	6.8	B1/1000		
BH (60°-80°)	48.0	1.4	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3
2.5°	470.4	474.4	475.2	476.4	476.4	477.9	480.4	483.9	489.6	492.6
5°	433.6	436.6	440.3	443.3	449.0	449.8	459.5	468.9	482.1	492.1
7.5°	396.5	400.0	405.0	412.2	419.7	421.9	436.6	452.5	473.4	492.1
10°	370.4	370.6	375.1	382.3	394.3	397.0	414.9	437.6	463.7	489.1
12.5°	355.7	357.4	359.4	364.9	376.3	378.1	397.3	423.9	454.0	487.4
15°	355.7	356.9	358.2	360.9	370.1	371.6	388.5	415.2	449.0	488.1
17.5°	359.4	361.4	360.4	363.7	373.4	374.4	389.3	412.7	448.8	492.8
20°	368.4	369.9	367.9	369.9	379.6	381.6	397.0	417.4	453.0	501.1
22.5°	382.6	383.3	378.6	380.1	390.0	392.5	410.4	430.9	463.2	514.2
25°	400.5	402.0	394.8	396.5	406.0	409.0	429.6	451.0	479.4	532.4
27.5°	421.2	421.9	415.7	415.4	427.6	431.9	452.8	475.9	501.1	555.3
30°	444.8	447.0	441.1	440.1	455.5	459.0	479.6	506.5	532.9	589.7
32.5°	463.5	465.2	461.7	464.2	479.9	482.6	512.3	549.8	582.9	638.4
35°	490.3	491.3	483.4	487.9	505.8	512.7	556.8	610.6	645.9	699.7
37.5°	587.7	587.7	553.8	531.7	548.8	555.1	617.8	687.0	723.6	781.8
40°	722.3	720.1	670.6	625.3	623.0	635.2	704.7	783.3	823.9	880.4
42.5°	865.9	862.5	795.0	750.2	742.7	747.0	805.0	902.0	943.4	1000.6
45°	993.4	992.4	930.7	870.4	857.0	870.4	930.2	1040.9	1070.6	1130.8
47.5°	1100.2	1100.2	1055.1	1015.8	1008.8	1016.8	1099.7	1195.0	1192.3	1269.4
50°	1223.1	1222.1	1179.3	1162.4	1169.6	1180.8	1294.8	1357.3	1318.2	1405.6
52.5°	1309.3	1315.2	1300.5	1297.8	1334.6	1354.1	1492.9	1516.1	1431.0	1534.8
55°	1377.5	1384.4	1401.3	1420.5	1491.5	1516.8	1684.9	1666.7	1525.3	1646.8
57.5°	1474.0	1464.1	1490.2	1528.0	1642.8	1673.4	1870.8	1808.8	1601.2	1737.6
60°	1591.3	1592.8	1597.2	1645.0	1793.9	1833.2	2054.0	1943.2	1650.0	1793.4
62.5°	1732.1	1734.4	1743.6	1817.0	1996.7	2033.8	2249.1	2053.2	1672.4	1777.7
65°	1722.4	1731.9	1834.7	2085.8	2305.1	2341.7	2476.9	2130.4	1638.6	1634.3
67.5°	1569.1	1584.5	1756.5	2406.9	2770.1	2810.9	2752.2	2145.6	1492.4	1270.9
70°	1368.0	1373.5	1580.3	2695.7	3308.5	3349.8	2998.6	1978.6	1132.5	708.9
72.5°	1068.3	1069.6	1312.2	2762.6	3600.7	3602.9	2805.2	1468.8	609.1	272.3
75°	763.2	755.7	878.9	2240.4	3167.8	3193.2	2103.0	689.0	232.7	128.7
77.5°	409.2	417.4	497.3	1328.7	2188.4	2231.7	1147.5	198.6	118.5	87.6
80°	126.4	133.4	203.9	608.3	1239.6	1265.7	425.4	88.4	82.6	62.5
82.5°	39.8	41.3	95.1	255.6	514.5	526.4	123.2	50.0	56.5	41.3
85°	11.4	11.7	42.3	95.3	127.2	129.7	34.6	19.4	32.4	25.6
87.5°	1.2	4.0	15.9	15.9	11.2	11.0	3.7	4.2	9.2	3.2
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°
492.3	0°	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3
494.6	2.5°	493.3	493.6	490.3	484.9	478.9	473.9	467.7	462.7	459.2	458.2
499.1	5°	496.8	495.1	485.9	469.2	449.3	432.1	412.9	397.8	387.8	383.6
503.8	7.5°	502.0	497.1	476.9	444.1	406.0	372.1	337.8	311.1	294.2	285.7
508.3	10°	506.5	496.6	462.0	407.7	349.5	298.2	251.9	219.8	201.9	193.4
513.5	12.5°	510.8	496.3	442.6	364.6	285.7	223.0	180.0	164.0	159.1	157.3
522.0	15°	518.7	497.1	418.2	315.4	222.3	168.5	152.8	152.6	153.6	153.1
534.9	17.5°	529.7	497.8	390.5	263.1	171.5	148.6	147.9	150.1	151.6	150.8
551.1	20°	543.9	500.8	361.2	211.3	147.4	143.6	145.4	147.4	148.6	147.4
572.7	22.5°	563.8	506.0	329.1	169.8	139.6	140.6	142.1	144.4	145.6	143.9
600.4	25°	588.2	514.2	297.4	147.6	135.9	137.1	139.4	141.9	143.4	141.6
635.2	27.5°	619.8	527.4	268.3	142.6	132.2	132.9	136.2	139.9	141.9	139.6
684.7	30°	665.6	549.1	243.2	144.9	129.9	128.2	132.7	137.9	140.1	138.1
752.2	32.5°	726.3	579.7	227.8	148.3	128.9	122.7	126.9	133.7	137.4	136.2
840.3	35°	806.0	626.3	221.8	152.3	128.2	117.0	120.0	127.2	133.7	134.9
951.3	37.5°	902.5	691.0	223.5	154.1	125.9	112.3	113.8	120.0	128.4	132.4
1076.3	40°	1012.3	766.4	233.5	152.3	123.5	108.3	108.5	113.3	120.7	126.7
1210.7	42.5°	1125.6	854.5	251.9	145.9	121.2	104.8	104.0	107.3	112.3	116.5
1344.8	45°	1233.3	945.1	270.1	136.9	118.5	101.3	99.6	100.8	101.8	103.5
1475.5	47.5°	1327.4	1008.8	264.8	128.7	114.7	97.3	94.3	93.8	90.9	90.6
1592.3	50°	1392.4	1022.8	235.2	120.5	109.3	92.8	88.1	85.1	79.9	77.4
1679.6	52.5°	1413.0	967.8	192.2	112.3	100.3	86.9	80.1	75.4	68.9	66.7
1729.9	55°	1385.7	860.0	153.6	102.3	87.9	78.9	71.4	65.2	60.0	57.2
1735.4	57.5°	1318.7	722.8	121.5	90.6	74.7	69.9	62.5	56.3	51.8	49.0
1674.7	60°	1207.7	574.0	96.1	76.7	63.7	60.2	52.5	48.5	44.6	41.3
1517.8	62.5°	1039.2	409.7	75.4	60.7	53.3	49.3	44.8	41.8	37.1	32.6
1235.8	65°	810.9	250.6	58.2	44.6	42.8	40.8	38.1	35.3	29.6	25.1
806.2	67.5°	511.5	118.7	41.6	33.6	33.9	32.9	31.6	29.4	25.1	21.2
361.2	70°	225.3	57.5	27.4	25.6	25.1	25.1	26.1	25.4	21.4	17.7
125.4	72.5°	76.7	30.9	20.4	19.4	18.2	17.9	21.9	21.2	17.2	13.7
62.5	75°	40.1	20.7	14.9	13.9	11.0	13.2	17.4	16.4	12.2	9.0
41.3	77.5°	26.1	14.7	10.2	9.0	6.2	8.7	12.9	11.4	7.2	4.5
27.1	80°	16.4	9.7	6.0	4.2	3.0	4.7	7.0	5.0	2.7	1.0
15.9	82.5°	8.7	5.0	2.2	1.5	1.2	1.5	1.7	1.2	0.5	0.0
8.2	85°	3.5	1.7	0.7	0.5	0.2	0.0	0.5	0.2	0.0	0.0
1.5	87.5°	1.2	0.2	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>
492.3
460.0
385.1
287.0
193.7
156.8
152.8
150.6
147.1
143.6
141.4
139.6
137.9
136.2
134.9
133.4
128.7
118.2
104.5
90.4
77.7
66.5
57.2
48.5
40.6
31.9
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