

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: INVUE

Report Number: P675756

Luminaire Tested: **CCW-SA-1D-835-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675756
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-835-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

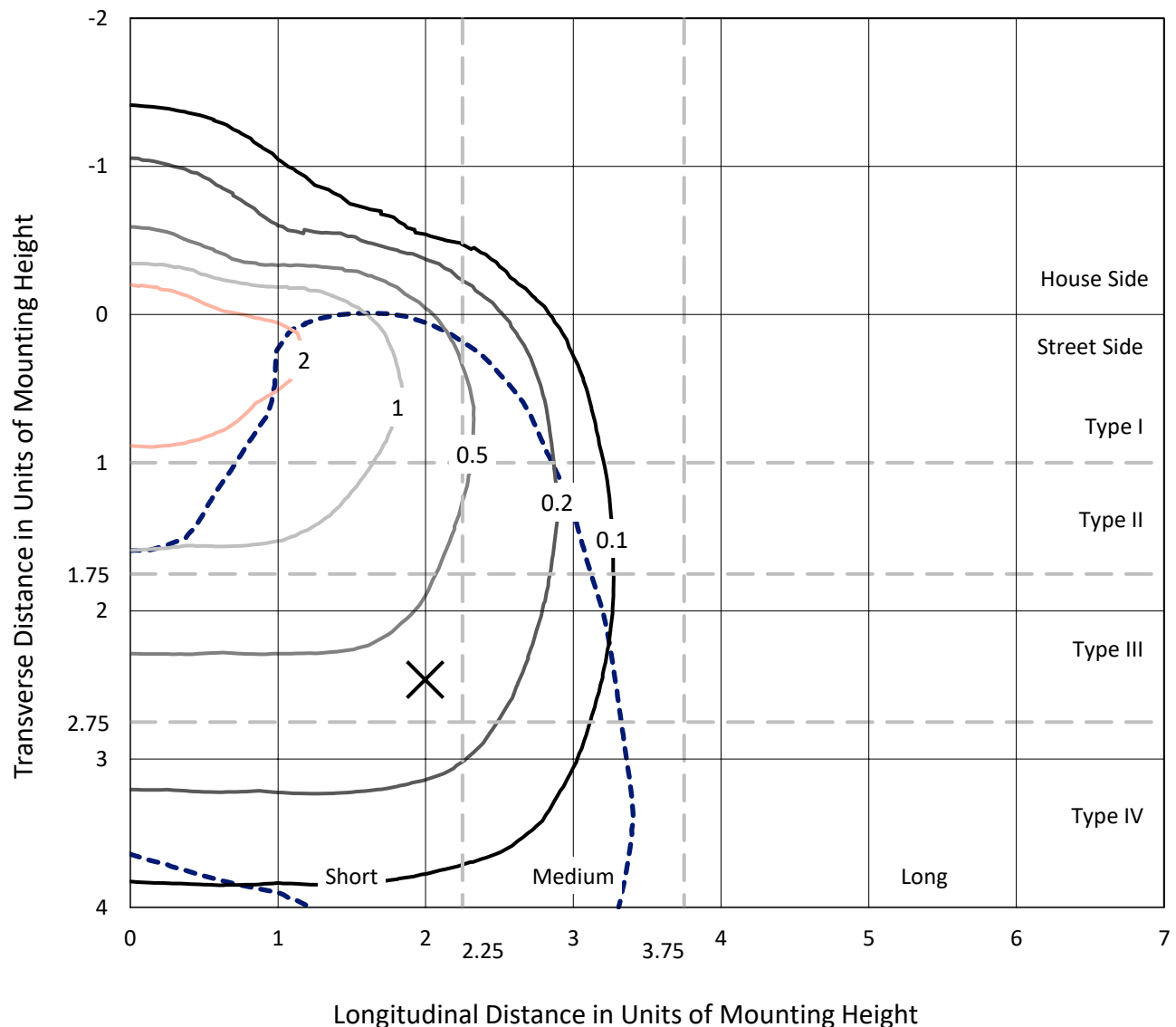
Lumens per Lamp: N/A
Luminaire Lumens: 4503.1 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
Input Voltage (V): 120
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

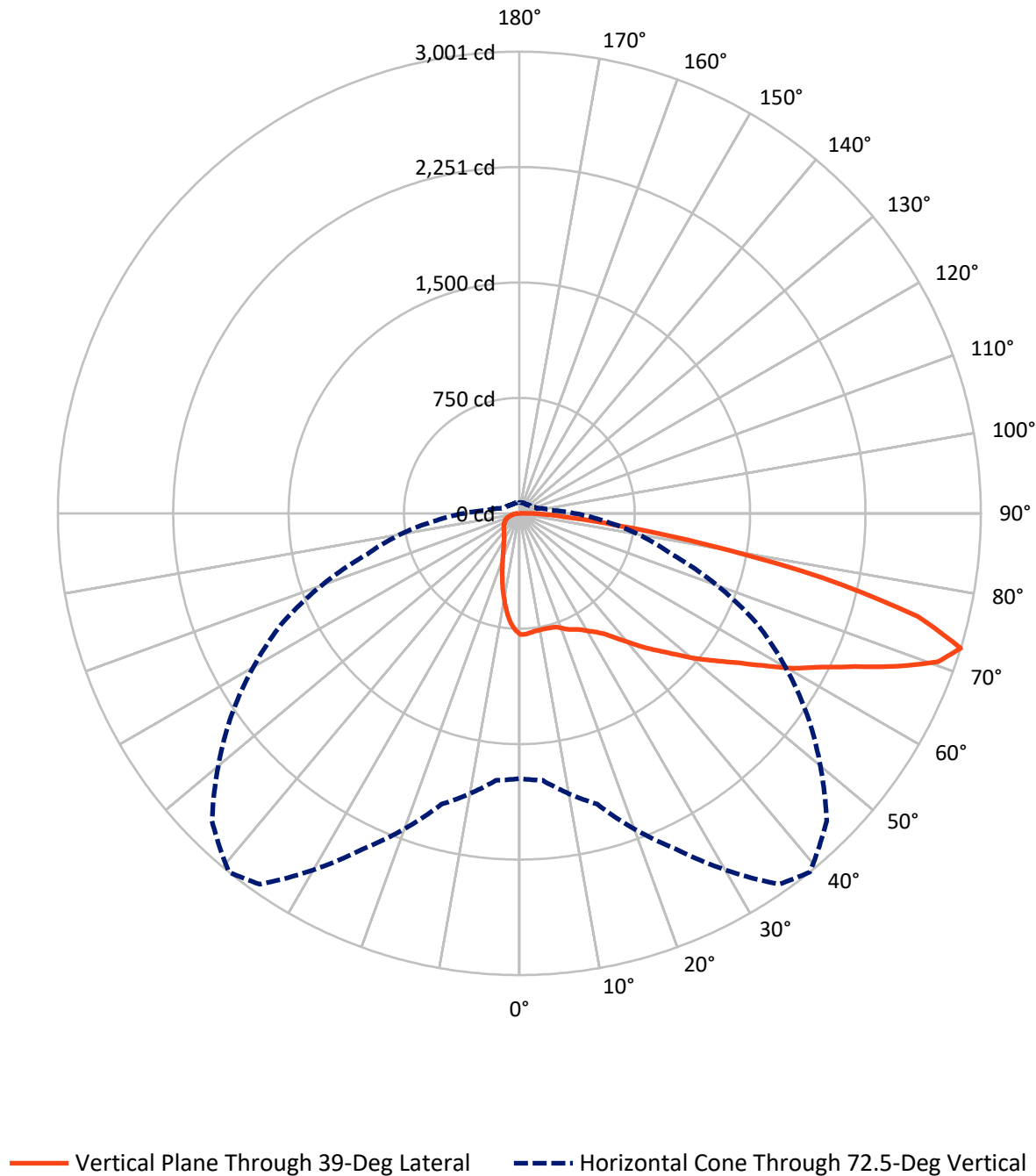
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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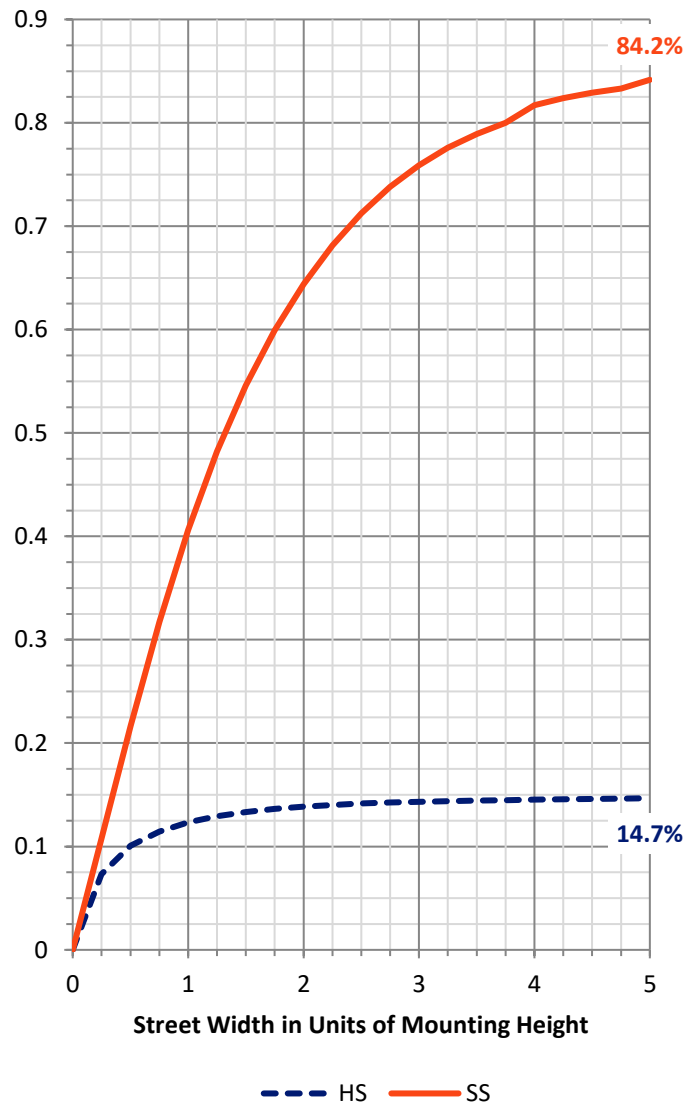
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	669.2	0.0	669.2
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3833.8	0.0	3833.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	4503.1	0.0	4503.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.5
10°-20°	177.8	3.9
20°-30°	270.8	6.0
30°-40°	396.2	8.8
40°-50°	606.5	13.5
50°-60°	889.6	19.8
60°-70°	1134.5	25.2
70°-80°	819.7	18.2
80°-90°	138.3	3.1
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°	4503.1	100.0
0°-180°	4503.1	100.0

Coefficient of Utilization



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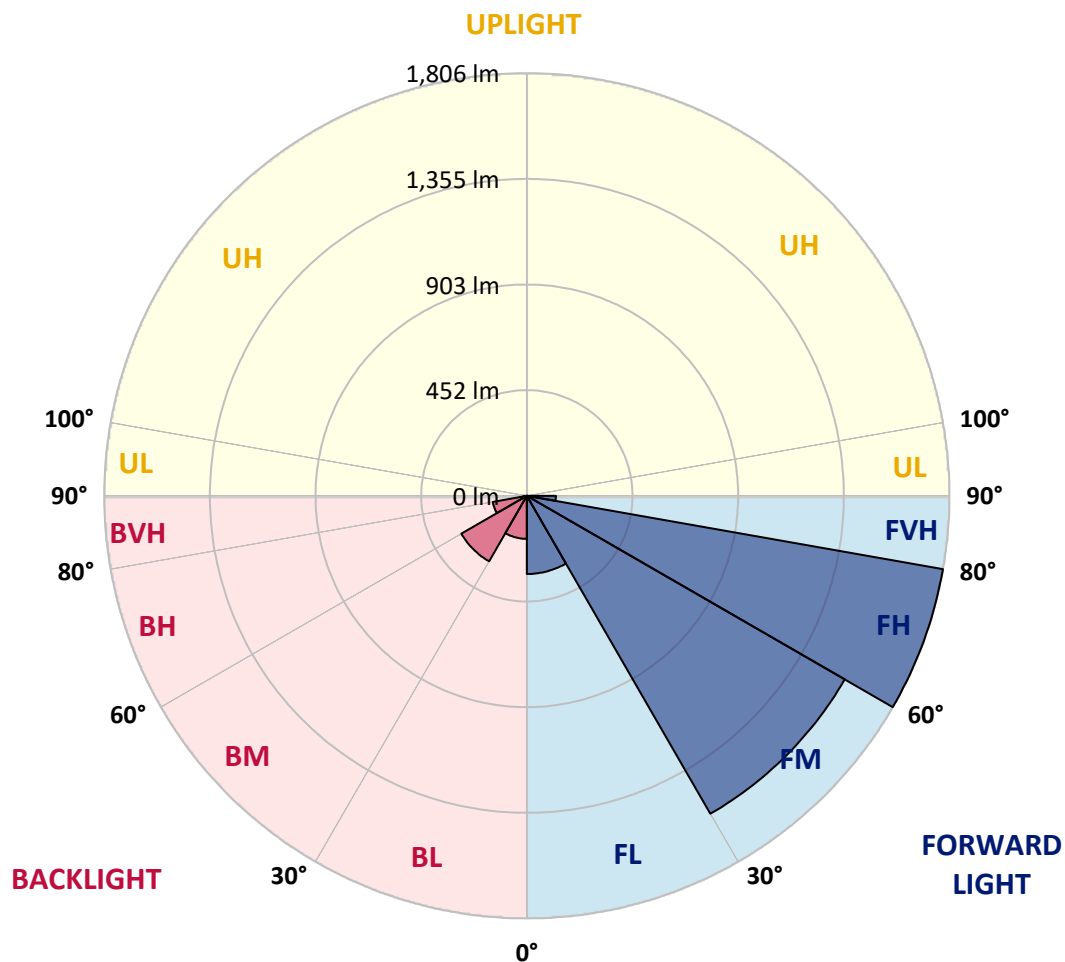
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.2	7.4			
FM	(30°-60°)	1569.0	34.8			
FH	(60°-80°)	1806.4	40.1			G2/5000
FVH	(80°-90°)	124.3	2.8			G2/225
BL	(0°-30°)	184.1	4.1	B1/500		
BM	(30°-60°)	323.3	7.2	B1/1000		
BH	(60°-80°)	147.9	3.3	B1/500		G1/500
BVH	(80°-90°)	14.0	0.3			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2
2.5°	800.1	801.8	798.4	795.0	793.3	786.5	793.3	789.9	786.5	786.5	786.5
5°	789.9	791.6	791.6	788.2	789.9	778.1	776.4	778.1	773.0	769.6	767.9
7.5°	774.7	778.1	784.9	783.2	776.4	771.3	773.0	771.3	762.9	757.8	744.3
10°	762.9	766.3	769.6	773.0	771.3	769.6	767.9	761.2	759.5	747.6	734.1
12.5°	751.0	751.0	752.7	766.3	767.9	767.9	757.8	757.8	752.7	751.0	730.7
15°	739.2	744.3	757.8	761.2	767.9	771.3	766.3	766.3	757.8	746.0	730.7
17.5°	742.6	751.0	764.6	773.0	776.4	776.4	783.2	778.1	766.3	759.5	744.3
20°	759.5	761.2	778.1	793.3	796.7	796.7	789.9	784.9	776.4	764.6	744.3
22.5°	769.6	781.5	801.8	810.2	820.4	820.4	811.9	800.1	788.2	776.4	754.4
25°	813.6	815.3	823.8	837.3	842.4	835.6	827.1	813.6	798.4	786.5	766.3
27.5°	844.1	852.5	862.7	869.4	861.0	855.9	849.1	833.9	822.1	811.9	783.2
30°	899.9	889.7	896.5	899.9	884.7	888.0	869.4	855.9	842.4	842.4	810.2
32.5°	933.7	942.2	935.4	933.7	921.9	920.2	908.3	893.1	884.7	894.8	850.8
35°	992.9	987.8	987.8	986.1	972.6	964.2	964.2	937.1	945.5	967.5	913.4
37.5°	1023.4	1021.7	1031.8	1040.3	1026.7	1031.8	1026.7	1014.9	1018.3	1057.2	991.2
40°	1053.8	1065.6	1085.9	1089.3	1097.8	1104.6	1101.2	1099.5	1113.0	1175.6	1096.1
42.5°	1082.6	1092.7	1123.2	1150.2	1170.5	1192.5	1194.2	1194.2	1238.2	1327.8	1223.0
45°	1119.8	1128.2	1170.5	1224.6	1258.5	1273.7	1287.2	1302.5	1361.7	1468.2	1358.3
47.5°	1170.5	1177.3	1228.0	1295.7	1361.7	1370.1	1397.2	1414.1	1503.7	1612.0	1497.0
50°	1243.3	1238.2	1278.8	1376.9	1441.2	1481.8	1520.7	1551.1	1639.1	1757.5	1605.2
52.5°	1302.5	1302.5	1332.9	1463.1	1551.1	1590.0	1630.6	1672.9	1774.4	1902.9	1693.2
55°	1403.9	1393.8	1412.4	1547.7	1674.6	1711.8	1789.6	1825.1	1923.2	2011.2	1767.6
57.5°	1473.3	1478.4	1500.4	1659.4	1820.1	1865.7	1943.5	1968.9	2055.2	2124.5	1821.7
60°	1564.6	1547.7	1595.1	1782.8	1980.7	2045.0	2109.3	2124.5	2188.8	2197.3	1847.1
62.5°	1652.6	1649.2	1689.8	1906.3	2153.3	2199.0	2264.9	2281.8	2308.9	2254.8	1811.6
65°	1706.7	1728.7	1804.8	2041.6	2349.5	2400.2	2466.2	2432.4	2401.9	2204.0	1637.4
67.5°	1781.2	1791.3	1908.0	2188.8	2576.2	2652.3	2709.8	2576.2	2349.5	1996.0	1378.6
70°	1798.1	1825.1	1977.4	2342.7	2809.6	2887.4	2890.8	2527.1	2158.4	1623.8	999.7
72.5°	1723.6	1742.2	1957.1	2407.0	2943.2	3000.7	2826.5	2285.2	1710.1	1023.4	544.7
75°	1449.6	1502.1	1703.3	2209.1	2697.9	2676.0	2395.2	1743.9	1026.7	453.3	230.0
77.5°	1009.8	1011.5	1221.3	1606.9	2019.7	2014.6	1708.4	1011.5	439.8	182.7	135.3
80°	448.2	480.4	607.2	866.0	1226.3	1226.3	996.3	502.4	219.9	118.4	93.0
82.5°	263.9	274.0	324.8	404.3	597.1	629.2	477.0	334.9	150.5	74.4	57.5
85°	194.5	211.4	241.9	243.6	282.5	287.6	263.9	290.9	103.2	40.6	47.4
87.5°	145.5	155.6	192.8	160.7	150.5	142.1	162.4	297.7	38.9	20.3	15.2
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2
2.5°	779.8	779.8	776.4	769.6	769.6	756.1	759.5	762.9	754.4	754.4	756.1
5°	767.9	761.2	752.7	742.6	735.8	717.2	713.8	702.0	700.3	696.9	691.8
7.5°	744.3	734.1	718.9	703.7	681.7	664.8	644.5	627.5	620.8	615.7	614.0
10°	722.3	720.6	695.2	664.8	630.9	598.8	568.3	546.4	532.8	524.4	522.7
12.5°	722.3	708.7	673.2	630.9	581.9	534.5	495.6	465.2	446.6	433.0	427.9
15°	718.9	705.4	658.0	593.7	537.9	473.6	419.5	387.4	360.3	346.8	348.4
17.5°	722.3	702.0	636.0	566.7	488.8	419.5	355.2	316.3	289.2	279.1	277.4
20°	724.0	698.6	619.1	529.4	438.1	360.3	299.4	262.2	241.9	235.1	235.1
22.5°	720.6	688.4	593.7	485.5	394.1	311.2	260.5	228.4	214.8	206.4	209.7
25°	735.8	686.7	570.0	448.2	343.4	270.6	231.7	208.1	199.6	194.5	196.2
27.5°	739.2	686.7	551.4	406.0	299.4	240.2	209.7	194.5	187.8	184.4	182.7
30°	752.7	690.1	529.4	363.7	263.9	216.5	192.8	184.4	179.3	177.6	177.6
32.5°	789.9	700.3	505.8	328.2	233.4	196.2	181.0	174.2	170.8	169.2	170.8
35°	833.9	727.3	480.4	290.9	211.4	182.7	170.8	165.8	164.1	164.1	164.1
37.5°	901.6	767.9	458.4	260.5	192.8	169.2	160.7	159.0	157.3	159.0	159.0
40°	979.4	811.9	438.1	236.8	179.3	160.7	152.2	152.2	150.5	152.2	153.9
42.5°	1069.0	866.0	417.8	213.1	167.5	153.9	147.2	145.5	143.8	147.2	148.9
45°	1192.5	940.5	404.3	199.6	159.0	147.2	140.4	140.4	138.7	138.7	142.1
47.5°	1295.7	1011.5	404.3	186.1	153.9	142.1	135.3	135.3	131.9	133.6	133.6
50°	1382.0	1072.4	412.7	182.7	147.2	137.0	131.9	128.6	126.9	126.9	126.9
52.5°	1439.5	1109.6	419.5	179.3	143.8	130.2	126.9	125.2	121.8	120.1	121.8
55°	1497.0	1135.0	421.2	179.3	138.7	123.5	120.1	120.1	116.7	115.0	115.0
57.5°	1519.0	1124.8	397.5	175.9	135.3	118.4	115.0	113.3	111.6	109.9	109.9
60°	1508.8	1087.6	345.1	167.5	131.9	115.0	108.3	108.3	108.3	104.9	106.6
62.5°	1439.5	960.8	277.4	153.9	126.9	108.3	101.5	104.9	104.9	103.2	103.2
65°	1256.8	793.3	225.0	142.1	120.1	103.2	96.4	101.5	103.2	101.5	99.8
67.5°	1004.8	610.6	186.1	128.6	111.6	94.7	89.6	94.7	96.4	94.7	94.7
70°	690.1	394.1	150.5	115.0	99.8	86.3	81.2	84.6	84.6	86.3	86.3
72.5°	356.9	213.1	123.5	98.1	86.3	77.8	72.7	72.7	71.0	71.0	71.0
75°	177.6	145.5	103.2	82.9	72.7	66.0	62.6	59.2	59.2	59.2	59.2
77.5°	123.5	111.6	84.6	66.0	59.2	54.1	54.1	49.1	49.1	49.1	49.1
80°	93.0	88.0	64.3	50.7	45.7	42.3	42.3	40.6	40.6	38.9	38.9
82.5°	66.0	71.0	49.1	37.2	33.8	32.1	32.1	30.4	30.4	27.1	27.1
85°	52.4	59.2	37.2	27.1	25.4	22.0	22.0	20.3	20.3	18.6	16.9
87.5°	15.2	32.1	15.2	10.1	10.1	10.1	10.1	8.5	8.5	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)