

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: STREETWORKS

Report Number: P836666

Luminaire Tested: **ARCH3-60-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

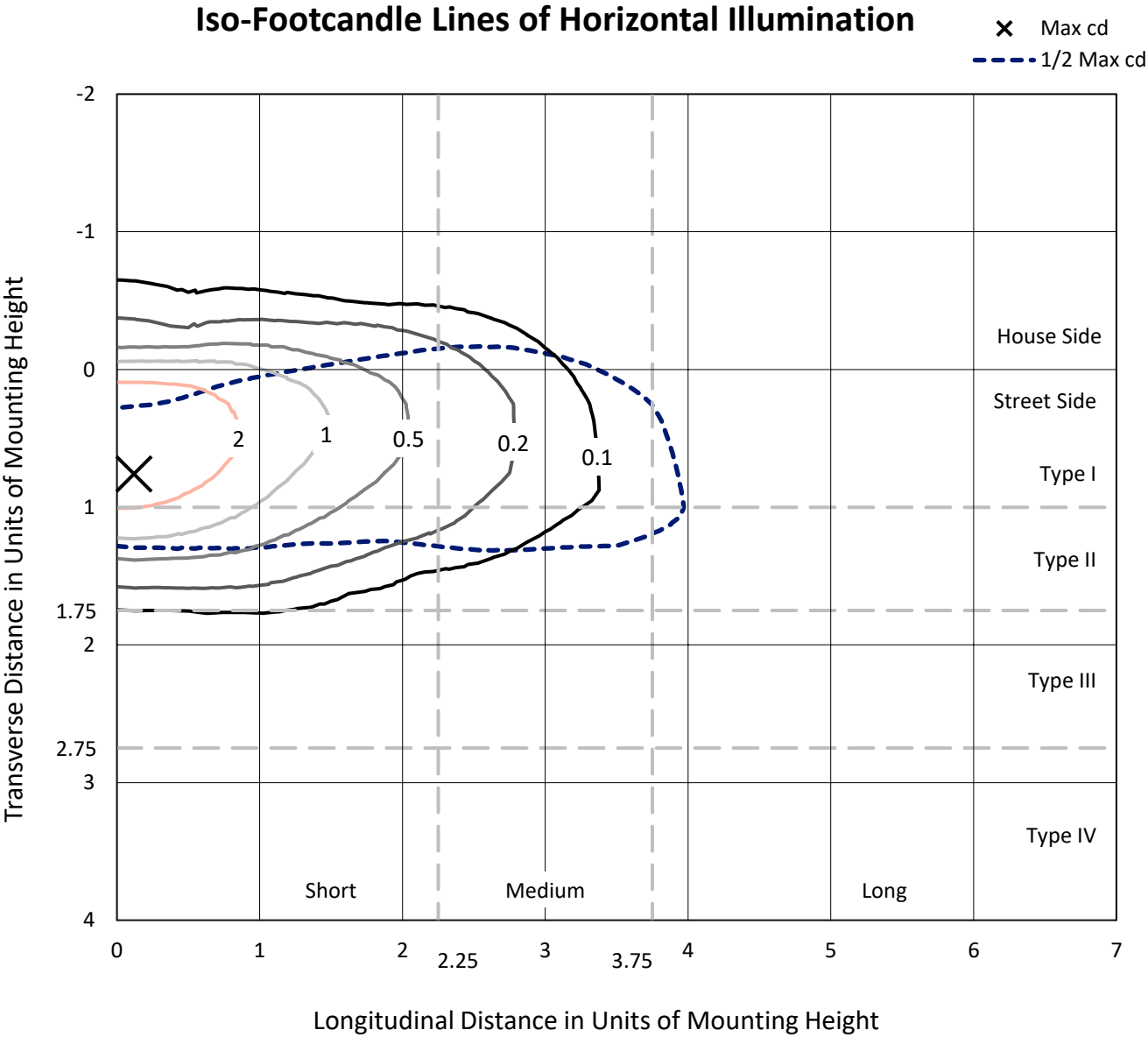
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6406 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.2
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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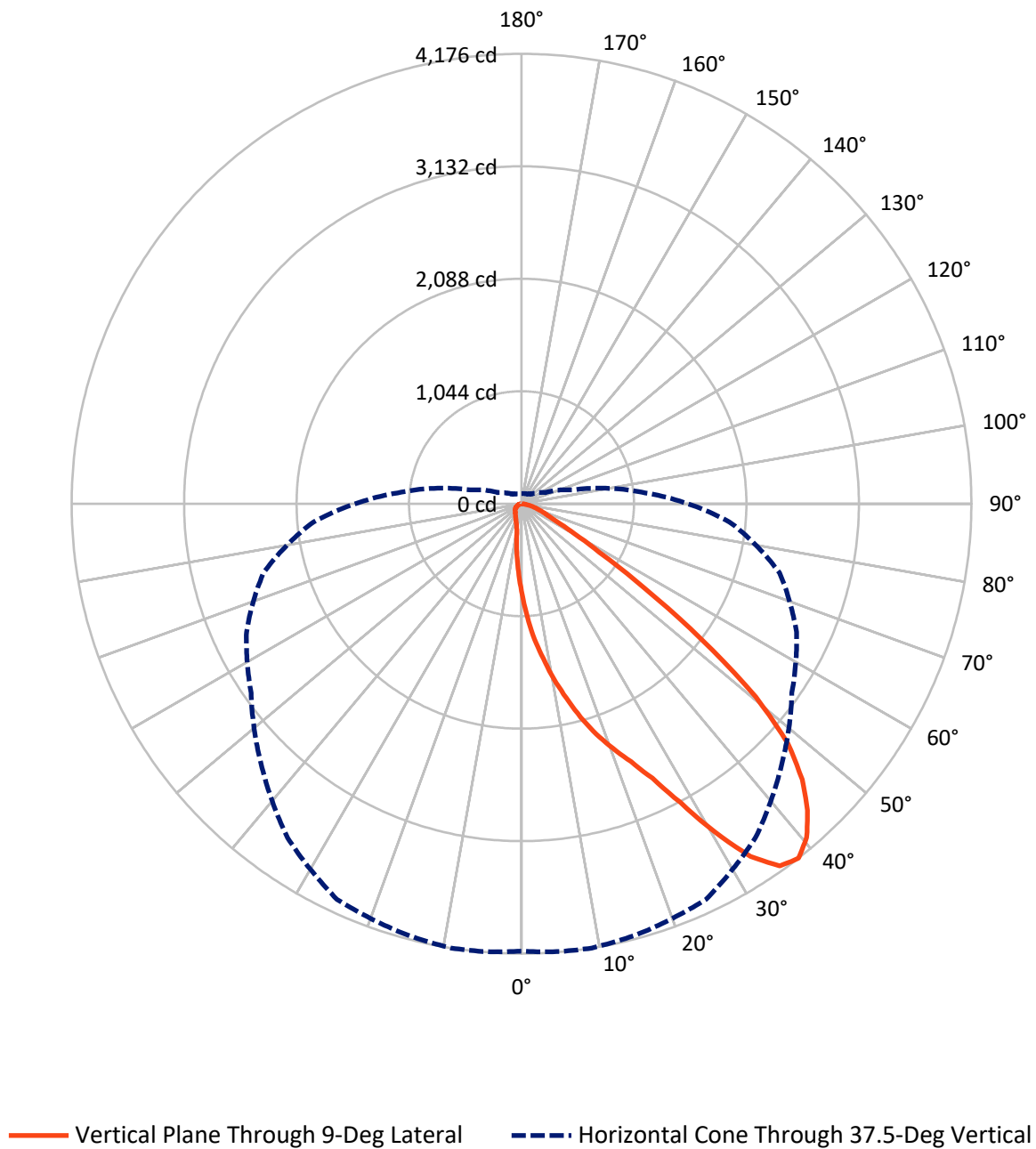


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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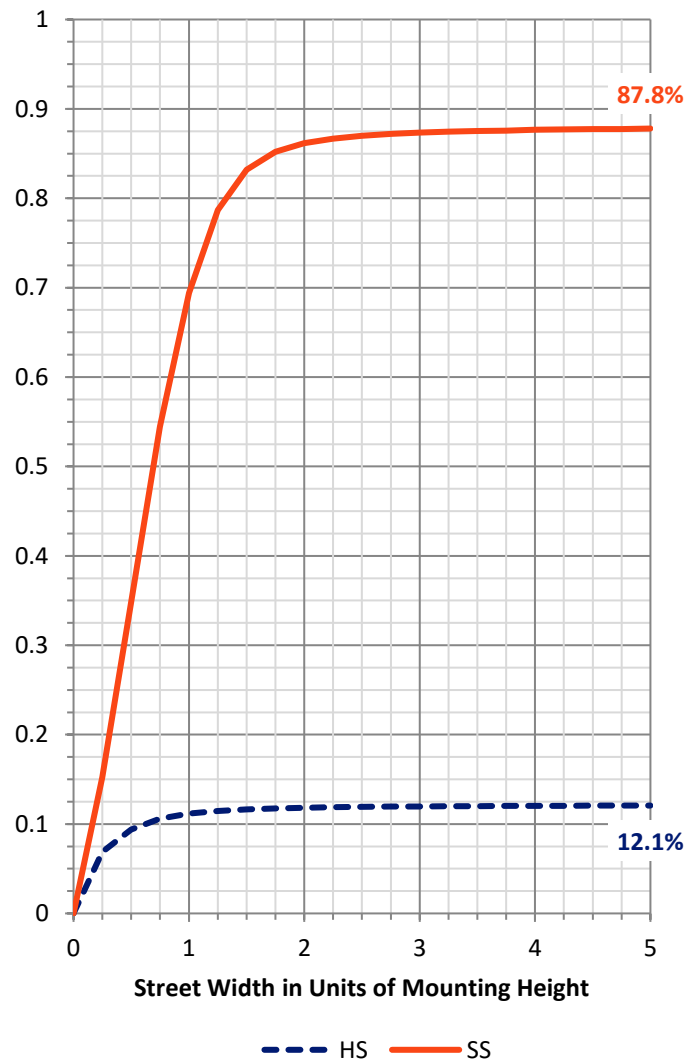
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.1	0.0	779.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5626.9	0.0	5626.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	6406.0	0.0	6406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.3
10°-20°	295.8	4.6
20°-30°	607.9	9.5
30°-40°	1074.5	16.8
40°-50°	1427.3	22.3
50°-60°	1353.7	21.1
60°-70°	1032.8	16.1
70°-80°	500.7	7.8
80°-90°	28.2	0.4
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°	6406.0	100.0
0°-180°	6406.0	100.0

Coefficient of Utilization



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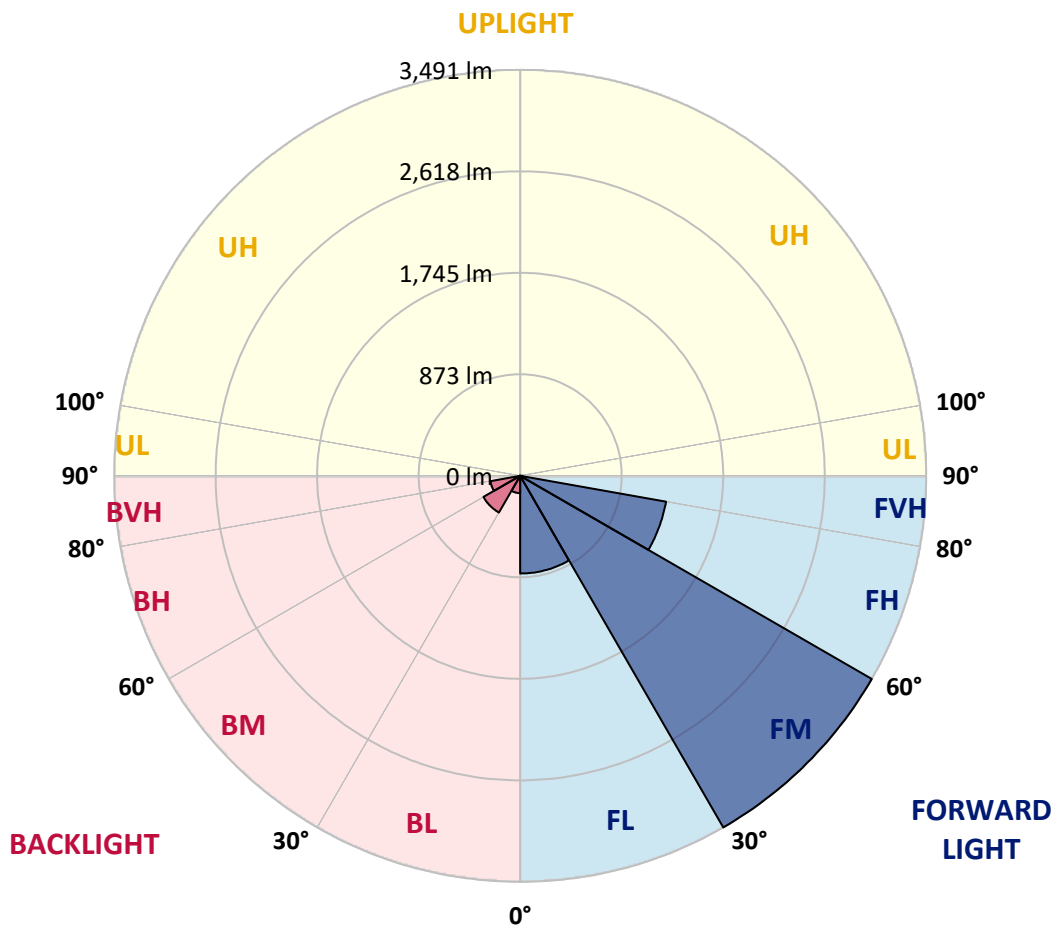
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	840.1	13.1			
FM	(30°-60°)	3491.0	54.5			
FH	(60°-80°)	1273.5	19.9			G1/1800
FVH	(80°-90°)	22.3	0.3			G1/100
BL	(0°-30°)	148.7	2.3	B1/500		
BM	(30°-60°)	364.6	5.7	B1/1000		
BH	(60°-80°)	260.0	4.1	B1/500		G1/500
BVH	(80°-90°)	5.9	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	1049.3	1030.9	1051.9	1049.3	1030.9	1019.0	982.2	970.4	927.0	895.4	867.8
5°	1264.9	1246.5	1264.9	1259.7	1233.4	1204.4	1144.0	1104.5	1026.9	958.6	896.8
7.5°	1443.8	1443.8	1451.6	1453.0	1421.4	1376.7	1301.8	1242.6	1133.4	1028.3	929.6
10°	1637.1	1638.4	1655.5	1643.6	1601.5	1541.1	1446.4	1371.4	1240.0	1101.9	961.2
12.5°	1843.5	1844.8	1850.1	1844.8	1794.8	1717.3	1602.9	1504.2	1353.0	1186.0	1004.6
15°	2049.9	2051.2	2057.8	2048.6	1993.4	1902.7	1772.5	1651.5	1472.7	1280.7	1057.2
17.5°	2243.2	2245.8	2251.1	2239.3	2181.4	2073.6	1940.8	1794.8	1600.2	1382.0	1116.4
20°	2416.8	2419.4	2423.4	2407.6	2349.7	2241.9	2098.6	1946.1	1730.4	1485.8	1180.8
22.5°	2591.7	2594.3	2600.9	2579.8	2515.4	2391.8	2251.1	2093.3	1868.5	1600.2	1255.7
25°	2815.2	2817.8	2823.1	2792.8	2704.7	2560.1	2411.5	2249.8	2018.4	1729.1	1347.8
27.5°	3142.6	3140.0	3140.0	3084.8	2933.5	2745.5	2573.3	2408.9	2180.1	1867.2	1449.0
30°	3547.6	3541.0	3537.1	3462.1	3246.5	2954.6	2738.9	2557.5	2335.3	2013.1	1558.2
32.5°	3910.5	3910.5	3902.6	3823.7	3594.9	3236.0	2915.1	2702.1	2485.2	2160.4	1671.2
35°	4124.8	4134.0	4130.1	4070.9	3903.9	3538.4	3153.1	2875.7	2642.9	2314.2	1806.7
37.5°	4153.8	4172.2	4176.1	4140.6	4052.5	3785.6	3417.4	3063.7	2816.5	2479.9	1938.2
40°	4036.7	4076.2	4076.2	4070.9	4039.4	3902.6	3639.6	3282.0	2995.3	2652.2	2071.0
42.5°	3856.6	3897.4	3892.1	3911.8	3903.9	3875.0	3764.6	3485.8	3174.2	2829.7	2191.9
45°	3621.2	3663.3	3652.8	3688.3	3704.1	3735.6	3751.4	3627.8	3350.4	3023.0	2327.4
47.5°	3243.9	3314.9	3330.6	3393.8	3459.5	3558.1	3633.1	3679.1	3514.7	3230.7	2474.6
50°	2686.3	2786.3	2817.8	2950.6	3130.8	3334.6	3455.6	3616.0	3630.4	3443.7	2633.7
52.5°	1923.7	2039.4	2088.1	2306.3	2677.1	3032.2	3250.4	3476.6	3675.1	3647.5	2806.0
55°	1243.9	1342.5	1389.8	1595.0	2088.1	2645.6	3008.5	3296.5	3650.2	3834.2	3003.2
57.5°	766.6	823.1	854.7	1030.9	1484.5	2149.9	2691.6	3130.8	3573.9	3996.0	3208.4
60°	516.8	549.6	565.4	648.2	1008.5	1606.8	2256.4	2957.2	3474.0	4105.1	3395.1
62.5°	343.2	353.7	369.5	420.8	665.3	1128.2	1733.0	2646.9	3399.0	4111.7	3533.1
65°	265.6	270.9	277.4	299.8	410.2	788.9	1218.9	2144.6	3287.3	3972.3	3576.5
67.5°	209.1	214.3	222.2	234.1	297.2	535.2	829.7	1571.3	3058.5	3754.0	3505.5
70°	164.4	168.3	173.6	184.1	231.4	387.9	548.3	1044.0	2596.9	3546.3	3282.0
72.5°	130.2	134.1	139.4	149.9	188.0	284.0	376.1	650.9	2002.6	3292.5	2852.0
75°	102.6	105.2	109.1	119.7	151.2	220.9	255.1	389.2	1360.9	2828.4	2222.2
77.5°	51.3	63.1	72.3	82.8	110.5	152.5	169.6	215.6	574.6	1451.6	1059.8
80°	30.2	36.8	39.4	46.0	72.3	92.0	92.0	86.8	181.5	557.5	432.6
82.5°	17.1	23.7	25.0	26.3	43.4	52.6	42.1	31.6	36.8	186.7	126.2
85°	5.3	7.9	9.2	10.5	14.5	15.8	14.5	13.1	10.5	18.4	11.8
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	2.6	2.6	3.9	3.9	3.9
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°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	852.1	835.0	802.1	771.8	742.9	721.9	702.2	683.7	670.6	660.1	658.8
5°	863.9	829.7	766.6	707.4	653.5	608.8	570.7	540.4	518.1	502.3	501.0
7.5°	879.7	827.1	731.1	643.0	562.8	498.3	443.1	402.4	373.4	361.6	352.4
10°	892.8	824.4	695.6	578.6	473.4	391.8	326.1	285.3	264.3	256.4	252.5
12.5°	915.2	827.1	665.3	519.4	395.8	299.8	249.8	227.5	218.3	211.7	210.4
15°	948.0	838.9	636.4	461.5	316.9	241.9	213.0	198.5	189.3	188.0	186.7
17.5°	980.9	849.4	610.1	402.4	263.0	210.4	190.7	178.8	172.3	170.9	170.9
20°	1019.0	862.6	581.2	345.8	224.8	189.3	173.6	164.4	156.5	155.2	155.2
22.5°	1063.8	881.0	553.6	295.9	199.9	173.6	160.4	149.9	143.3	142.0	142.0
25°	1124.2	908.6	531.2	259.0	182.8	160.4	148.6	139.4	134.1	131.5	131.5
27.5°	1191.3	946.7	515.4	236.7	170.9	149.9	138.1	130.2	124.9	122.3	122.3
30°	1266.2	988.8	504.9	227.5	164.4	140.7	130.2	122.3	115.7	114.4	114.4
32.5°	1349.1	1037.5	498.3	228.8	163.0	134.1	122.3	114.4	109.1	106.5	106.5
35°	1441.1	1091.4	494.4	236.7	165.7	128.9	115.7	107.8	102.6	99.9	99.9
37.5°	1543.7	1154.5	494.4	244.6	172.3	127.5	109.1	101.2	97.3	94.7	94.7
40°	1639.7	1221.5	499.7	253.8	178.8	127.5	103.9	97.3	92.0	89.4	89.4
42.5°	1714.6	1259.7	503.6	263.0	182.8	126.2	98.6	92.0	88.1	85.5	85.5
45°	1800.1	1300.4	495.7	266.9	182.8	123.6	94.7	88.1	84.2	81.5	81.5
47.5°	1894.8	1350.4	494.4	269.6	178.8	118.3	90.7	84.2	81.5	78.9	78.9
50°	1990.8	1405.6	497.0	268.2	173.6	110.5	85.5	81.5	77.6	74.9	74.9
52.5°	2099.9	1463.5	502.3	265.6	161.7	101.2	81.5	77.6	73.6	71.0	69.7
55°	2220.9	1526.6	512.8	260.4	146.0	92.0	77.6	73.6	68.4	65.7	64.4
57.5°	2360.2	1604.2	524.6	249.8	128.9	84.2	73.6	68.4	60.5	56.5	55.2
60°	2493.1	1692.3	537.8	224.8	111.8	76.3	69.7	61.8	53.9	51.3	50.0
62.5°	2618.0	1779.1	544.4	180.1	94.7	69.7	65.7	56.5	48.7	46.0	44.7
65°	2698.2	1873.7	529.9	122.3	77.6	64.4	60.5	52.6	44.7	40.8	40.8
67.5°	2703.4	1918.4	479.9	80.2	63.1	57.9	55.2	47.3	39.4	36.8	35.5
70°	2570.6	1851.4	366.9	63.1	52.6	50.0	50.0	42.1	34.2	31.6	30.2
72.5°	2265.6	1639.7	234.1	51.3	44.7	42.1	42.1	35.5	30.2	26.3	25.0
75°	1788.3	1264.9	124.9	42.1	36.8	35.5	32.9	28.9	25.0	22.4	21.0
77.5°	821.8	557.5	57.9	30.2	27.6	27.6	25.0	21.0	19.7	17.1	17.1
80°	324.8	189.3	28.9	19.7	18.4	18.4	18.4	14.5	14.5	11.8	10.5
82.5°	89.4	39.4	14.5	11.8	11.8	11.8	10.5	9.2	9.2	7.9	7.9
85°	9.2	6.6	6.6	6.6	6.6	5.3	5.3	3.9	2.6	2.6	2.6
87.5°	3.9	3.9	3.9	3.9	3.9	2.6	1.3	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	0.0

(END OF REPORT)