

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: P800116

Luminaire Tested: **ARCH2-80-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6445 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 84.3
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

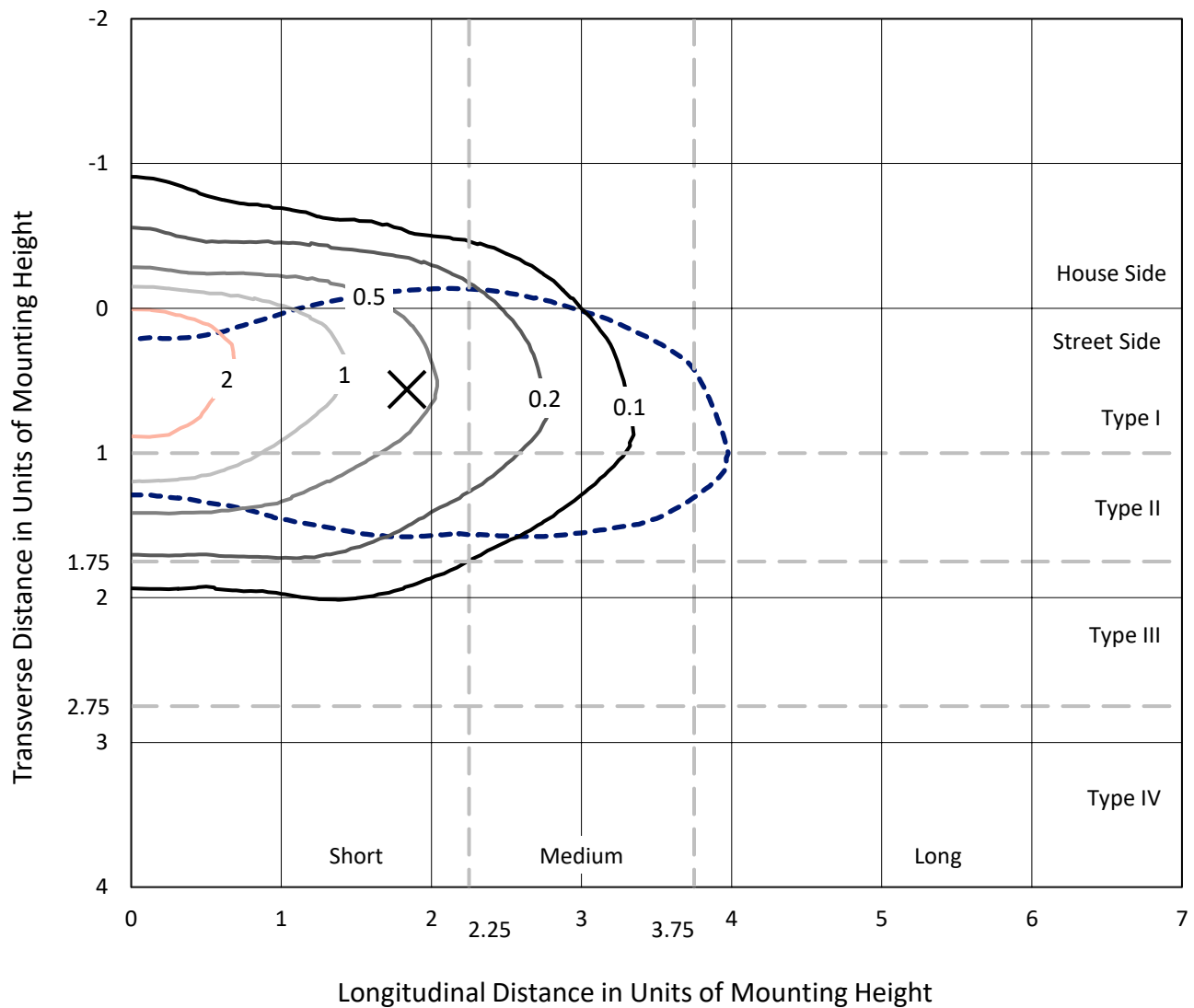


REPORT NUMBER: P800116

CATALOG NUMBER: ARCH2-80-722-U-T2U-HSS

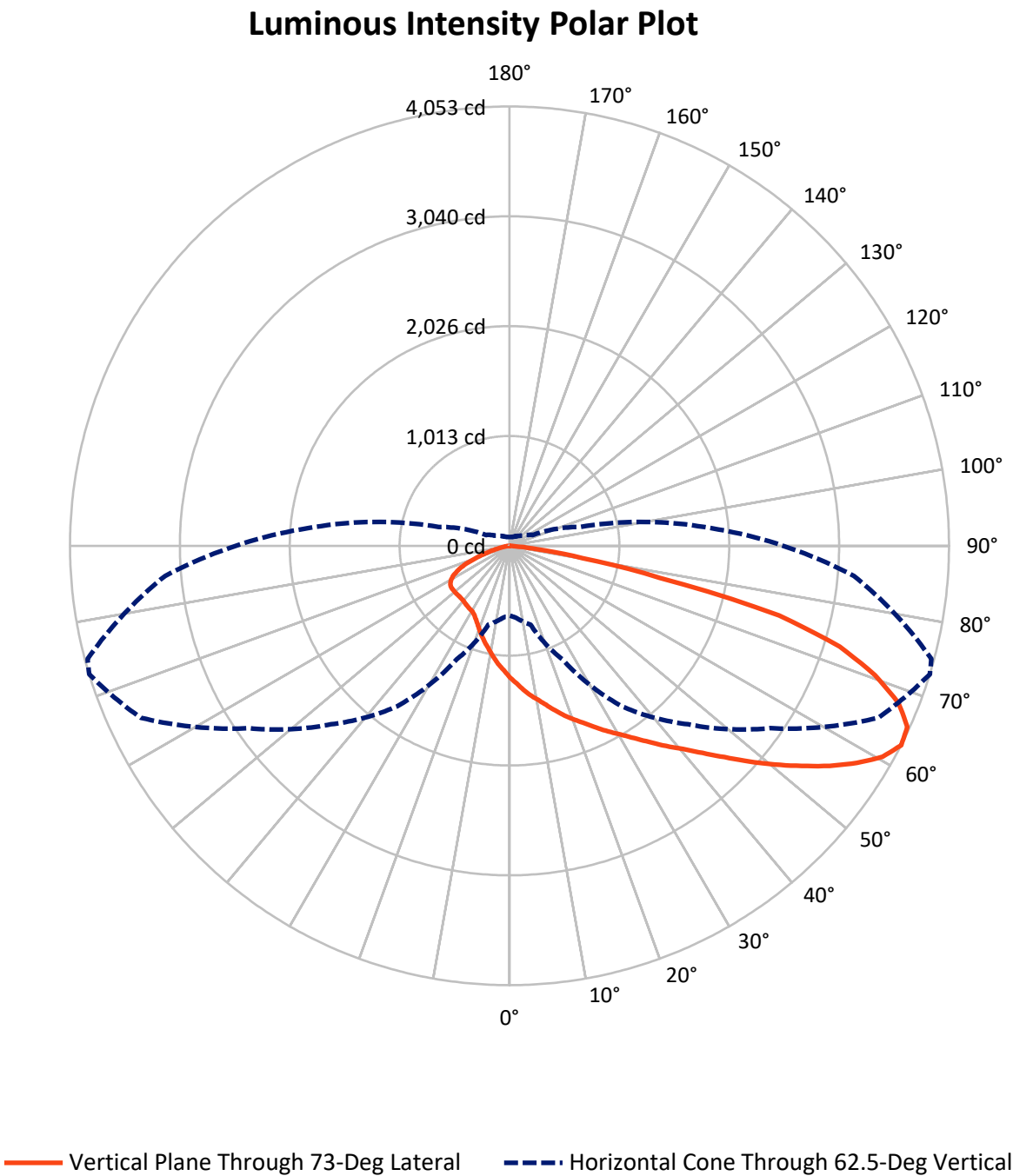
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Short - N/A

REPORT NUMBER: P800116
CATALOG NUMBER: ARCH2-80-722-U-T2U-HSS



REPORT NUMBER: P800116

CATALOG NUMBER: ARCH2-80-722-U-T2U-HSS

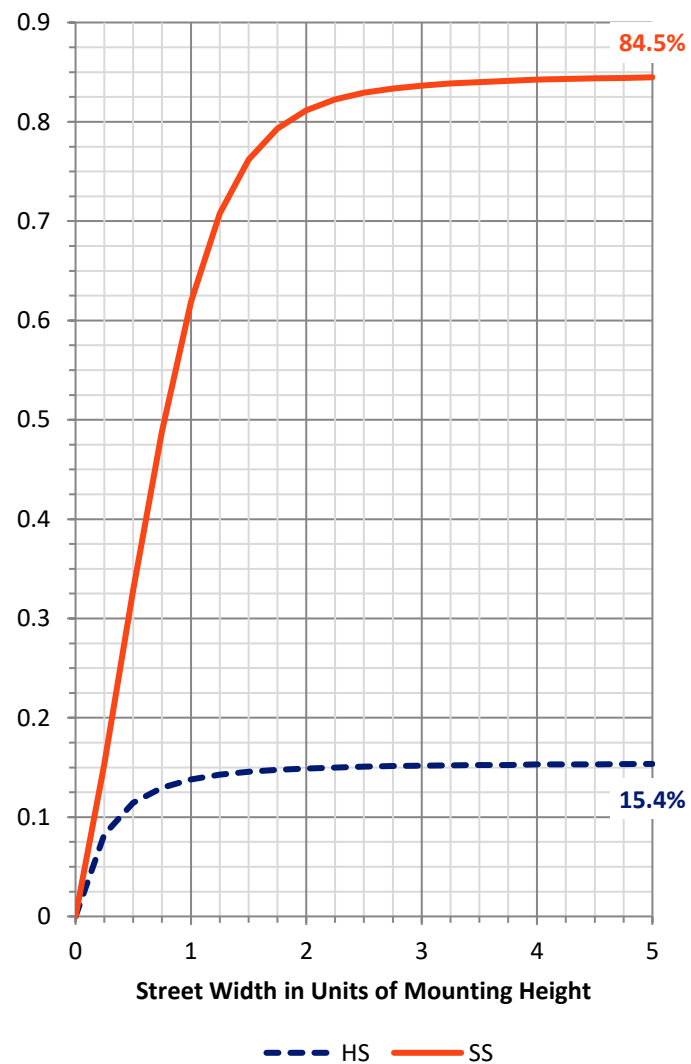
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	999.1	0.0	999.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5445.9	0.0	5445.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	6445.0	0.0	6445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.8
10°-20°	355.8	5.5
20°-30°	592.2	9.2
30°-40°	893.5	13.9
40°-50°	1248.9	19.4
50°-60°	1379.4	21.4
60°-70°	1201.7	18.6
70°-80°	607.0	9.4
80°-90°	48.7	0.8
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°	6445.0	100.0
0°-180°	6445.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800116

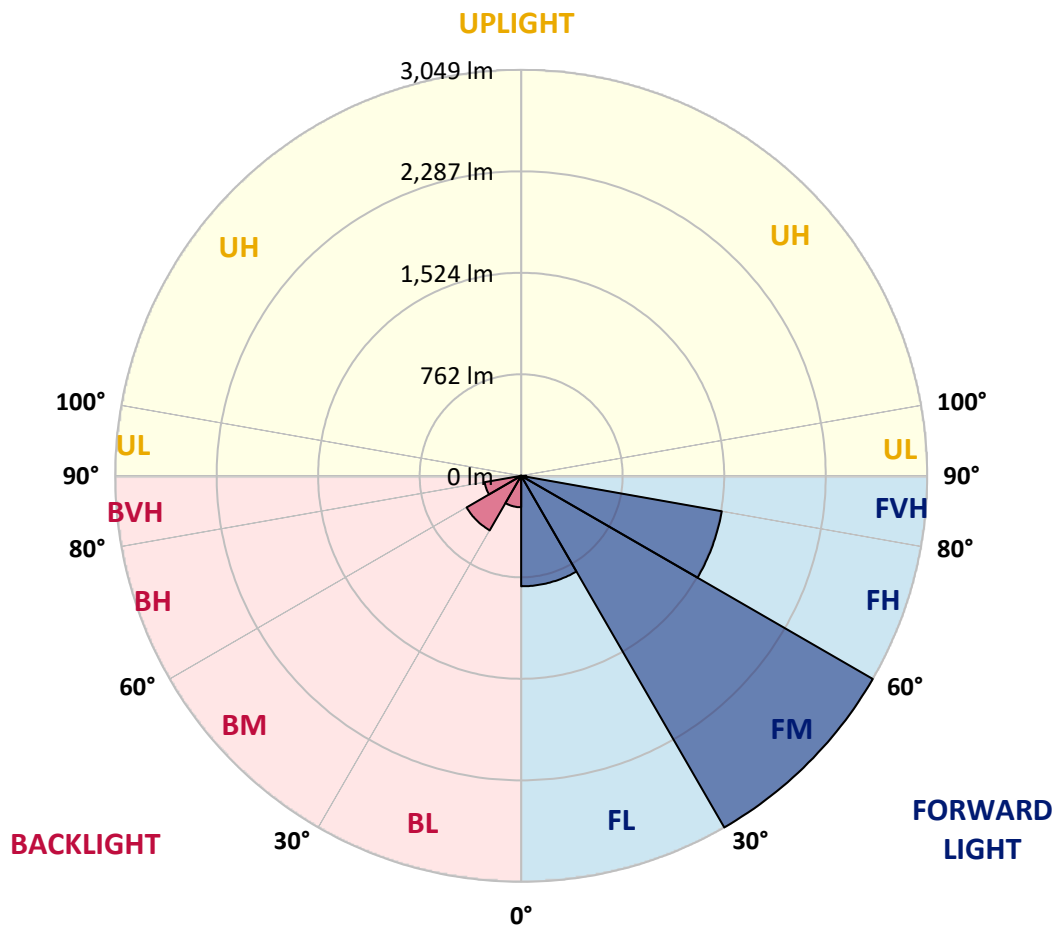
CATALOG NUMBER: ARCH2-80-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	829.7	12.9			
FM	(30°-60°)	3048.7	47.3			
FH	(60°-80°)	1529.8	23.7			G1/1800
FVH	(80°-90°)	37.7	0.6			G1/100
BL	(0°-30°)	236.1	3.7	B1/500		
BM	(30°-60°)	473.1	7.3	B1/1000		
BH	(60°-80°)	278.9	4.3	B1/500		G1/500
BVH	(80°-90°)	11.0	0.2			G1/100
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



REPORT NUMBER: P800116

CATALOG NUMBER: ARCH2-80-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1388.9	1404.3	1395.9	1401.5	1373.4	1355.2	1334.1	1293.4	1270.9	1268.1	1241.4
5°	1592.5	1609.4	1595.3	1591.1	1542.0	1499.8	1452.1	1380.5	1332.7	1324.3	1265.3
7.5°	1796.2	1811.6	1794.8	1782.1	1716.1	1641.7	1571.5	1466.1	1391.7	1377.7	1285.0
10°	1939.4	1953.4	1940.8	1928.2	1859.4	1783.5	1683.8	1546.2	1445.1	1422.6	1297.6
12.5°	2047.5	2056.0	2050.3	2039.1	1974.5	1893.1	1797.6	1636.1	1505.5	1477.4	1317.3
15°	2136.0	2150.0	2143.0	2134.6	2072.8	1991.4	1900.1	1730.2	1575.7	1540.6	1346.8
17.5°	2195.0	2204.8	2206.2	2206.2	2151.5	2071.4	1982.9	1815.8	1645.9	1601.0	1374.9
20°	2221.7	2232.9	2239.9	2251.2	2206.2	2137.4	2047.5	1888.8	1711.9	1661.3	1401.5
22.5°	2234.3	2244.1	2262.4	2287.7	2251.2	2193.6	2110.7	1956.3	1777.9	1724.5	1432.4
25°	2244.1	2256.8	2283.5	2331.2	2305.9	2256.8	2185.2	2033.5	1856.5	1801.8	1477.4
27.5°	2270.8	2286.3	2311.5	2369.1	2338.2	2314.4	2263.8	2116.3	1939.4	1883.2	1532.1
30°	2363.5	2376.1	2374.7	2411.3	2373.3	2366.3	2331.2	2196.4	2019.4	1963.3	1596.7
32.5°	2532.0	2544.7	2513.8	2499.7	2416.9	2418.3	2404.2	2282.1	2114.9	2057.4	1671.2
35°	2713.2	2727.2	2686.5	2662.6	2523.6	2482.9	2489.9	2388.8	2221.7	2164.1	1763.9
37.5°	2874.7	2891.5	2856.4	2821.3	2680.9	2586.8	2585.4	2508.2	2343.8	2284.9	1866.4
40°	2963.2	2982.8	3003.9	2984.2	2836.8	2732.9	2687.9	2630.3	2464.6	2404.2	1977.3
42.5°	3005.3	3060.1	3098.0	3085.3	2964.6	2859.2	2805.9	2758.1	2612.1	2553.1	2109.3
45°	2887.3	2888.7	2968.8	3037.6	3015.1	2944.9	2935.1	2901.4	2780.6	2724.4	2258.2
47.5°	2739.9	2728.6	2784.8	2907.0	2970.2	2988.4	3046.0	3060.1	2973.0	2916.8	2409.9
50°	2386.0	2393.0	2575.6	2751.1	2874.7	2992.7	3124.7	3223.0	3171.0	3117.6	2569.9
52.5°	1940.8	1957.7	2166.9	2553.1	2748.3	2950.5	3171.0	3385.9	3373.2	3322.7	2730.0
55°	1556.0	1582.7	1804.6	2223.1	2586.8	2856.4	3190.7	3534.7	3582.5	3536.1	2887.3
57.5°	1189.5	1217.6	1404.3	1834.1	2380.4	2703.4	3176.6	3665.3	3777.7	3748.2	3032.0
60°	896.0	924.1	1043.4	1487.2	2122.0	2532.0	3106.4	3751.0	3953.2	3922.3	3137.3
62.5°	641.8	664.3	752.7	1157.2	1807.4	2328.4	2933.7	3752.4	4052.9	4027.7	3187.9
65°	462.0	462.0	533.7	825.8	1512.5	2084.0	2672.5	3579.7	4031.9	4024.8	3152.8
67.5°	332.8	335.6	393.2	577.2	1206.3	1787.7	2334.0	3272.1	3869.0	3904.1	3026.4
70°	235.9	243.0	269.6	403.0	911.4	1411.4	1971.7	2869.1	3575.5	3637.2	2782.0
72.5°	182.6	186.8	205.0	280.9	665.7	1049.0	1571.5	2419.7	3183.6	3253.9	2449.2
75°	140.4	144.6	158.7	206.4	477.5	735.9	1116.5	1877.6	2567.1	2692.1	1967.5
77.5°	102.5	108.1	118.0	150.3	278.1	467.6	676.9	1056.1	1417.0	1476.0	1030.8
80°	47.7	54.8	68.8	96.9	150.3	220.5	240.1	407.3	681.1	712.0	558.9
82.5°	26.7	33.7	39.3	59.0	75.8	78.6	81.5	102.5	257.0	283.7	234.5
85°	12.6	16.9	18.3	25.3	25.3	22.5	26.7	19.7	42.1	50.6	49.2
87.5°	0.0	1.4	2.8	7.0	5.6	4.2	4.2	4.2	4.2	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P800116

CATALOG NUMBER: ARCH2-80-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1228.8	1210.5	1168.4	1131.9	1108.0	1087.0	1058.9	1046.2	1023.8	1028.0	1015.3
5°	1235.8	1202.1	1127.7	1058.9	1008.3	963.4	914.2	886.1	855.2	852.4	842.6
7.5°	1240.0	1188.1	1081.3	984.4	907.2	838.4	772.4	735.9	698.0	689.5	681.1
10°	1235.8	1167.0	1033.6	907.2	804.7	719.0	644.6	598.3	558.9	549.1	540.7
12.5°	1240.0	1155.8	988.7	835.6	713.4	616.5	532.2	484.5	448.0	438.2	432.5
15°	1249.9	1148.8	950.7	771.0	632.0	523.8	441.0	400.2	370.7	360.9	358.1
17.5°	1258.3	1141.7	910.0	707.8	550.5	442.4	370.7	337.0	311.8	301.9	299.1
20°	1269.5	1131.9	869.3	647.4	478.9	377.8	314.6	285.1	265.4	258.4	257.0
22.5°	1279.4	1124.9	831.4	587.0	412.9	325.8	272.4	248.6	234.5	227.5	227.5
25°	1304.6	1127.7	799.1	530.8	363.7	285.1	240.1	221.9	210.7	206.4	206.4
27.5°	1334.1	1138.9	773.8	483.1	321.6	254.2	217.7	202.2	196.6	191.0	192.4
30°	1376.3	1161.4	756.9	443.8	290.7	230.3	199.4	188.2	182.6	181.2	181.2
32.5°	1429.6	1197.9	755.5	418.5	268.2	212.1	186.8	176.9	174.1	172.7	172.7
35°	1492.8	1230.2	747.1	407.3	254.2	199.4	176.9	169.9	168.5	168.5	168.5
37.5°	1568.7	1283.6	741.5	391.8	247.2	192.4	169.9	164.3	164.3	164.3	164.3
40°	1647.3	1327.1	733.1	377.8	244.4	188.2	165.7	158.7	158.7	158.7	158.7
42.5°	1741.4	1390.3	730.3	370.7	240.1	185.4	160.1	151.7	153.1	153.1	154.5
45°	1855.1	1461.9	728.9	363.7	238.7	182.6	154.5	144.6	146.1	144.6	144.6
47.5°	1970.3	1544.8	733.1	359.5	237.3	179.8	150.3	137.6	137.6	136.2	136.2
50°	2091.1	1620.6	735.9	355.3	234.5	174.1	143.2	132.0	129.2	126.4	127.8
52.5°	2204.8	1690.8	737.3	348.3	226.1	165.7	137.6	125.0	120.8	116.6	118.0
55°	2318.6	1758.2	740.1	339.9	214.9	157.3	130.6	118.0	112.3	106.7	106.7
57.5°	2421.1	1817.2	733.1	318.8	202.2	148.9	123.6	109.5	101.1	95.5	95.5
60°	2491.3	1859.4	712.0	287.9	185.4	139.0	116.6	101.1	91.3	87.1	87.1
62.5°	2525.0	1866.4	674.1	237.3	164.3	129.2	108.1	92.7	84.3	81.5	81.5
65°	2492.7	1835.5	615.1	178.4	141.8	118.0	99.7	85.7	77.2	70.2	70.2
67.5°	2380.4	1748.4	533.7	134.8	120.8	106.7	91.3	78.6	68.8	63.2	63.2
70°	2154.3	1567.2	412.9	108.1	102.5	92.7	82.9	70.2	61.8	54.8	54.8
72.5°	1857.9	1328.5	290.7	87.1	87.1	78.6	70.2	61.8	53.4	47.7	47.7
75°	1425.4	983.0	195.2	70.2	71.6	66.0	57.6	50.6	44.9	40.7	40.7
77.5°	778.0	485.9	119.4	52.0	53.4	50.6	44.9	40.7	37.9	33.7	33.7
80°	377.8	213.5	68.8	36.5	37.9	36.5	33.7	29.5	29.5	26.7	26.7
82.5°	158.7	80.0	36.5	25.3	25.3	22.5	21.1	21.1	21.1	19.7	19.7
85°	39.3	15.4	15.4	14.0	14.0	14.0	12.6	12.6	12.6	9.8	11.2
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	1.4	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)