

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: P193449

Luminaire Tested: **GAN-AF-01-LED-U-AFL-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2743 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 34
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: 28.75 FT



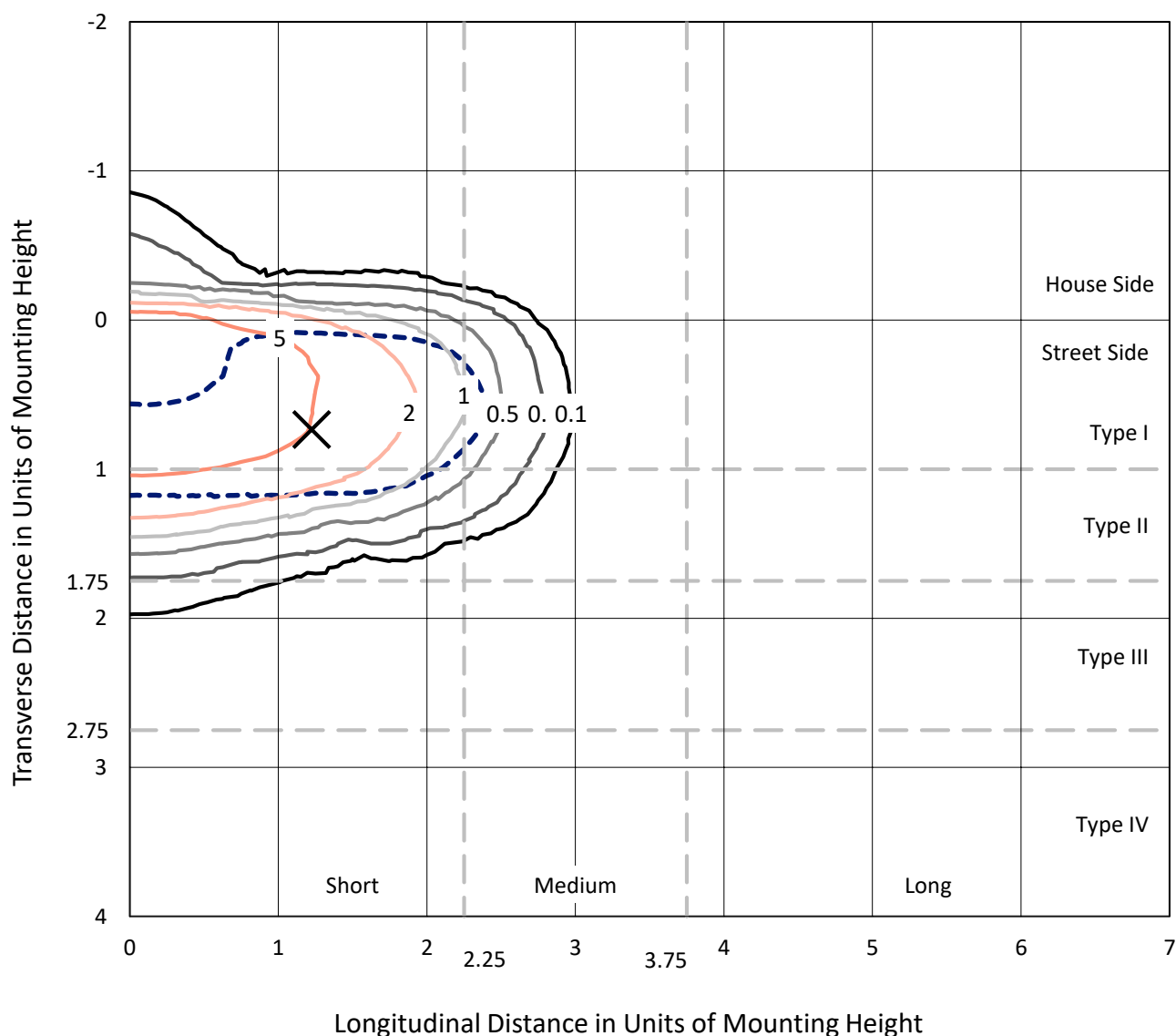
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

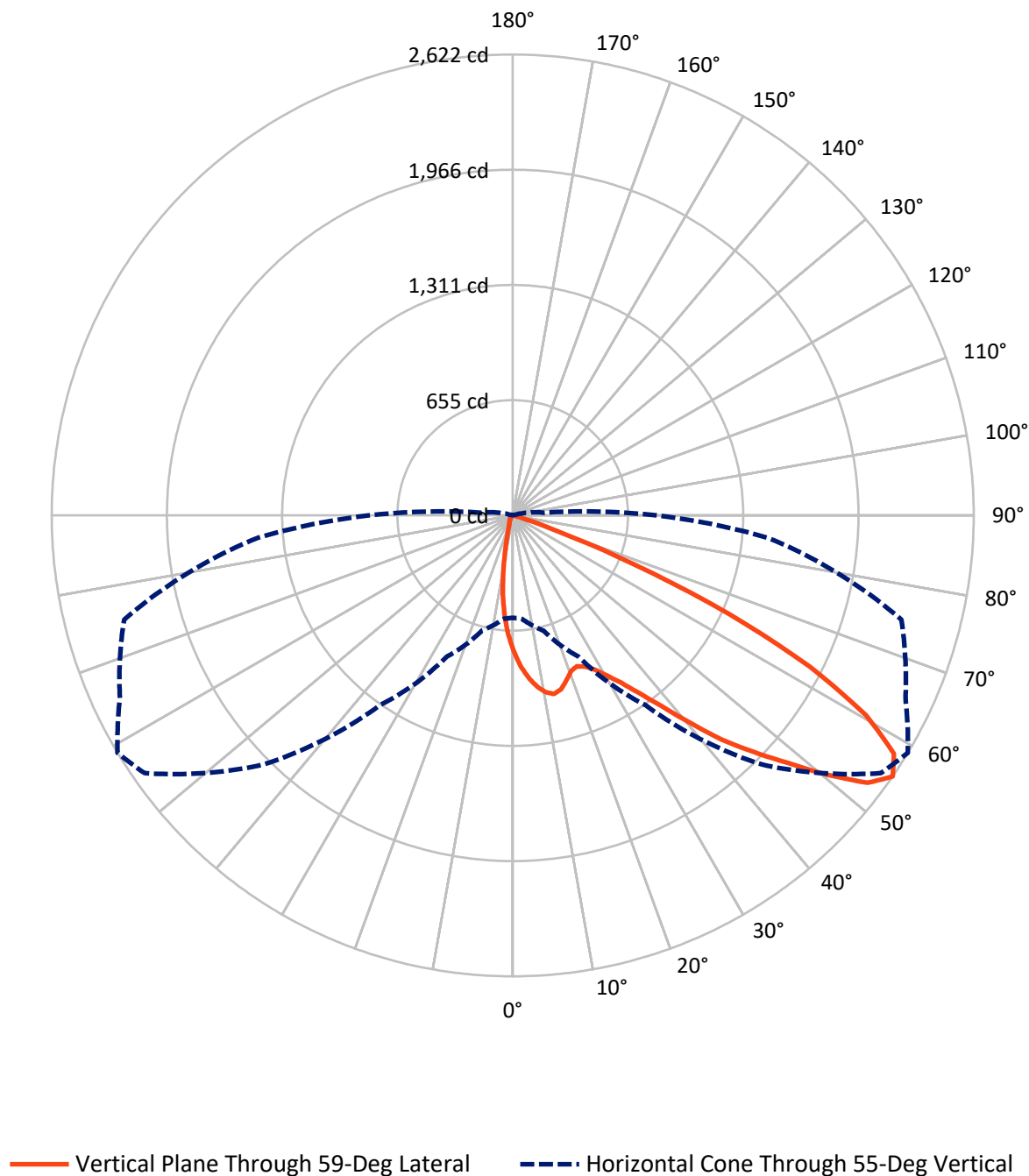


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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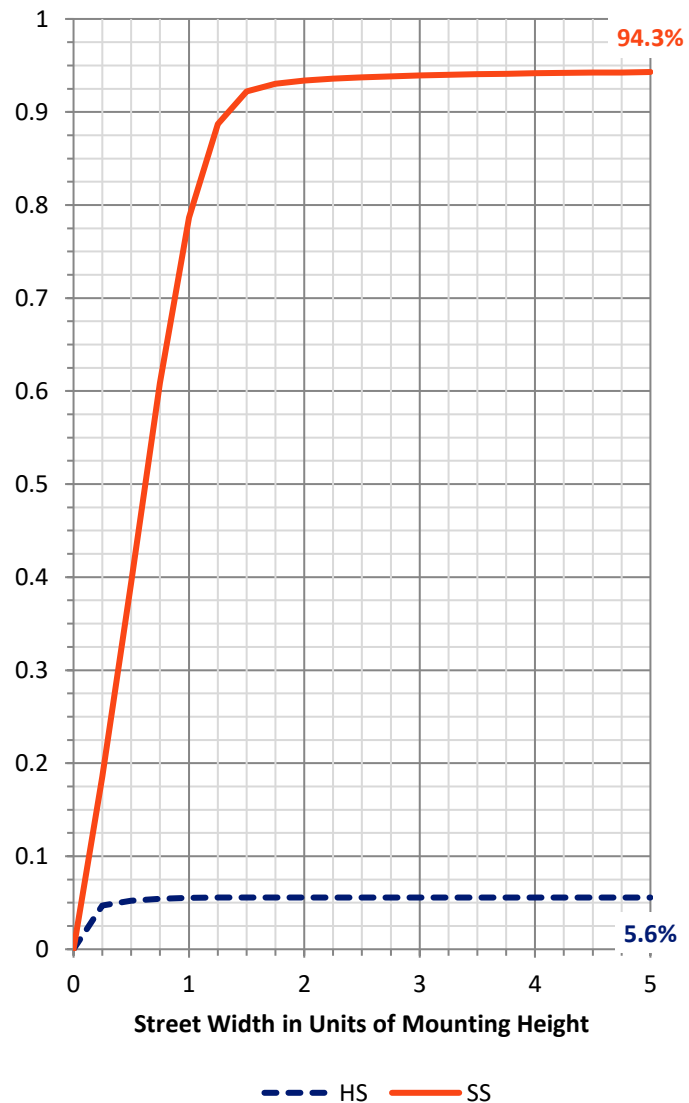
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	153.2	0.0	153.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	2589.8	0.0	2589.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	2743.0	0.0	2743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	2.4
10°-20°	154.9	5.6
20°-30°	263.5	9.6
30°-40°	453.2	16.5
40°-50°	699.6	25.5
50°-60°	703.3	25.6
60°-70°	360.7	13.1
70°-80°	39.1	1.4
80°-90°	4.1	0.1
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°	2743.0	100.0
0°-180°	2743.0	100.0

Coefficient of Utilization



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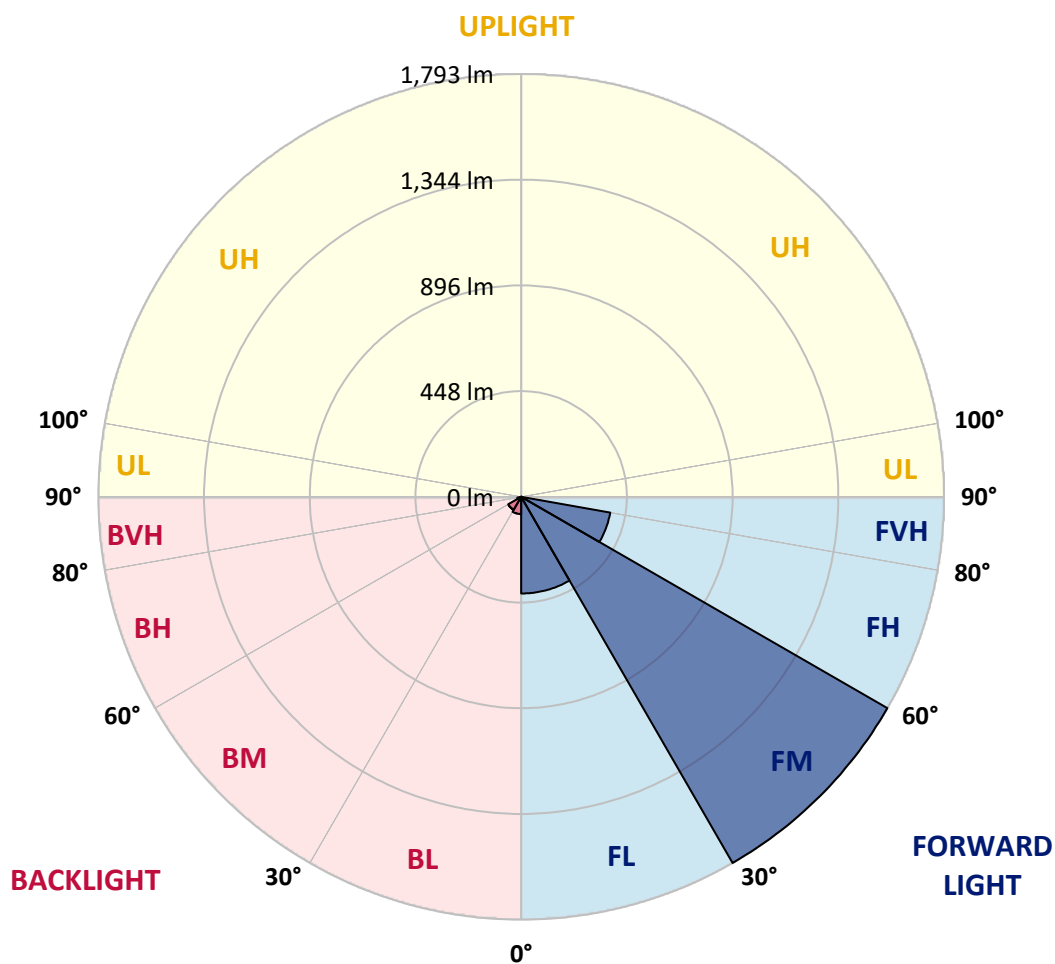
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.9	14.9			
FM	(30°-60°)	1792.5	65.3			
FH	(60°-80°)	383.3	14.0			G0/660
FVH	(80°-90°)	4.0	0.1			G0/10
BL	(0°-30°)	73.1	2.7	B0/110		
BM	(30°-60°)	63.6	2.3	B0/220		
BH	(60°-80°)	16.4	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1
2.5°	913.6	903.9	901.0	899.1	890.2	879.0	863.8	856.6	842.1	818.6	789.8
5°	997.3	995.5	989.1	985.5	975.9	960.1	935.8	924.1	901.0	861.5	809.9
7.5°	960.7	971.9	980.8	995.7	1014.5	1013.8	993.4	981.3	955.4	903.3	832.2
10°	819.4	828.5	843.0	876.9	945.8	1006.7	1030.7	1021.9	1001.2	941.6	853.7
12.5°	791.7	790.8	793.4	803.2	839.3	926.1	1024.3	1042.0	1037.8	976.8	874.1
15°	806.5	805.3	805.0	808.4	817.1	853.7	976.9	1027.6	1060.1	1009.3	891.4
17.5°	847.7	842.9	840.3	837.5	835.0	844.0	919.9	987.3	1063.5	1037.8	905.9
20°	918.5	910.4	900.8	885.3	870.7	866.2	896.0	945.8	1051.4	1059.5	915.2
22.5°	1007.3	997.0	980.5	952.1	922.5	905.4	907.8	932.7	1033.2	1083.1	919.6
25°	1107.2	1094.0	1071.9	1032.6	989.1	958.6	942.8	951.5	1025.0	1110.8	924.6
27.5°	1214.2	1199.5	1170.7	1117.1	1067.7	1026.6	994.2	993.1	1039.1	1147.0	932.7
30°	1320.3	1318.0	1280.4	1223.8	1158.4	1108.4	1061.7	1055.7	1078.4	1197.2	948.8
32.5°	1461.7	1444.7	1398.8	1340.5	1265.1	1205.0	1149.8	1135.9	1138.8	1255.7	973.5
35°	1640.1	1621.5	1556.8	1476.3	1392.0	1321.1	1260.0	1241.1	1234.0	1351.3	1015.3
37.5°	1755.4	1755.1	1714.4	1632.5	1542.0	1463.8	1397.5	1375.3	1360.9	1466.9	1080.0
40°	1758.5	1766.1	1771.4	1770.6	1706.2	1634.1	1575.2	1547.9	1514.3	1621.3	1163.7
42.5°	1664.1	1683.7	1730.8	1810.7	1848.9	1820.3	1770.6	1743.7	1693.9	1786.6	1265.7
45°	1536.5	1550.1	1632.5	1779.8	1926.3	2004.8	1966.9	1918.9	1853.1	1959.0	1357.2
47.5°	1479.4	1481.8	1535.1	1696.8	1932.1	2156.0	2179.0	2100.8	1997.9	2097.9	1428.7
50°	1308.6	1313.0	1386.5	1552.9	1863.8	2227.4	2392.0	2317.9	2155.7	2204.9	1454.8
52.5°	986.3	992.5	1085.7	1316.4	1676.1	2197.0	2544.5	2526.5	2328.6	2257.2	1456.2
55°	581.9	590.0	679.1	886.1	1318.3	2003.4	2555.8	2621.9	2465.0	2288.1	1454.0
57.5°	271.8	277.5	328.4	456.5	819.9	1583.3	2385.2	2556.5	2540.3	2304.5	1470.0
60°	144.4	146.0	158.3	197.6	370.5	1003.9	2052.3	2308.5	2471.7	2327.1	1489.6
62.5°	110.4	110.9	110.2	114.9	155.7	445.6	1551.2	1897.8	2195.4	2310.1	1467.9
65°	95.7	96.5	91.9	90.8	99.9	159.0	921.6	1352.8	1725.1	2080.7	1320.1
67.5°	85.8	86.1	80.6	75.9	77.5	86.0	363.6	740.6	1141.9	1525.2	956.8
70°	79.0	78.7	72.7	65.2	63.1	58.8	115.6	271.5	545.7	773.4	445.0
72.5°	69.9	70.1	67.2	57.5	52.4	41.1	53.6	79.2	162.8	210.8	104.2
75°	62.0	61.2	57.6	51.5	43.2	27.0	26.5	35.3	50.2	49.9	22.5
77.5°	44.8	44.0	45.2	42.2	33.2	17.5	13.3	17.0	20.4	19.7	6.3
80°	32.9	32.4	29.1	35.1	29.3	12.0	8.3	9.1	10.5	8.9	1.9
82.5°	22.5	22.3	20.6	19.4	16.7	7.3	5.2	5.7	6.8	5.0	1.0
85°	3.6	4.0	14.9	11.8	9.9	3.2	3.6	3.9	4.5	2.8	0.3
87.5°	0.0	0.0	7.0	6.2	1.9	1.3	2.1	2.3	2.3	1.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1
2.5°	775.1	758.9	728.9	698.0	669.4	635.2	611.7	594.1	573.7	568.2	580.2
5°	780.4	749.8	685.4	615.3	549.4	476.4	420.6	376.4	336.4	322.8	335.1
7.5°	788.8	743.3	638.3	522.9	408.2	294.3	216.3	165.0	132.3	122.5	127.7
10°	797.2	733.9	583.7	413.4	256.7	143.3	93.2	74.5	67.5	66.0	66.9
12.5°	804.2	721.3	517.2	294.0	137.3	76.7	61.0	58.0	57.0	57.0	57.3
15°	808.4	702.2	438.4	187.0	79.0	58.0	53.3	52.3	52.3	52.4	52.8
17.5°	807.9	677.9	352.1	113.2	59.1	51.3	48.6	47.8	47.6	47.9	48.1
20°	801.9	646.2	265.5	74.6	51.5	46.8	44.0	42.6	42.4	42.7	43.1
22.5°	790.6	607.0	189.9	57.5	46.5	42.4	39.0	37.7	37.7	38.0	38.4
25°	776.8	559.1	129.8	48.7	41.9	37.7	34.5	33.3	33.7	34.5	34.6
27.5°	759.7	505.2	88.2	41.8	36.4	33.0	30.6	29.8	30.6	31.7	32.1
30°	744.9	449.0	63.0	36.1	30.9	28.5	27.0	27.0	28.2	30.3	30.8
32.5°	733.6	394.7	48.6	31.9	26.9	24.8	24.0	24.8	26.5	28.7	29.1
35°	732.2	349.8	41.1	28.5	24.0	21.9	21.5	23.0	24.8	26.4	26.7
37.5°	743.3	308.4	37.1	25.7	21.4	19.4	19.1	20.9	22.7	24.6	25.1
40°	764.5	275.8	34.2	23.1	19.3	17.2	16.5	17.8	20.2	22.8	23.5
42.5°	792.1	249.0	30.9	20.6	17.2	14.2	13.4	14.9	17.5	20.2	21.0
45°	818.3	225.8	27.4	17.6	14.4	11.0	10.7	12.6	13.9	16.7	17.3
47.5°	832.7	205.4	24.3	14.4	11.2	8.9	8.9	9.4	10.7	13.9	14.6
50°	827.8	189.1	21.0	10.7	7.8	6.8	6.8	6.6	8.6	11.2	11.7
52.5°	818.1	179.7	18.1	8.3	5.3	4.9	4.4	4.9	6.0	7.1	7.3
55°	816.7	178.1	15.2	6.6	3.7	3.2	2.4	2.4	2.4	2.3	1.9
57.5°	828.0	180.7	12.8	5.3	2.8	2.1	1.3	0.0	0.0	0.0	0.0
60°	839.6	183.4	11.0	3.7	1.9	1.1	0.2	0.0	0.0	0.0	0.0
62.5°	820.2	177.3	9.2	2.3	1.5	0.5	0.0	0.0	0.0	0.0	0.0
65°	720.5	150.9	7.3	1.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	512.5	101.0	4.9	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	233.9	42.2	3.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	50.0	13.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.2	9.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.2	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.9	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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	0.0

(END OF REPORT)