

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: P484585

Luminaire Tested: **IFLD-L-SA8D-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484585  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

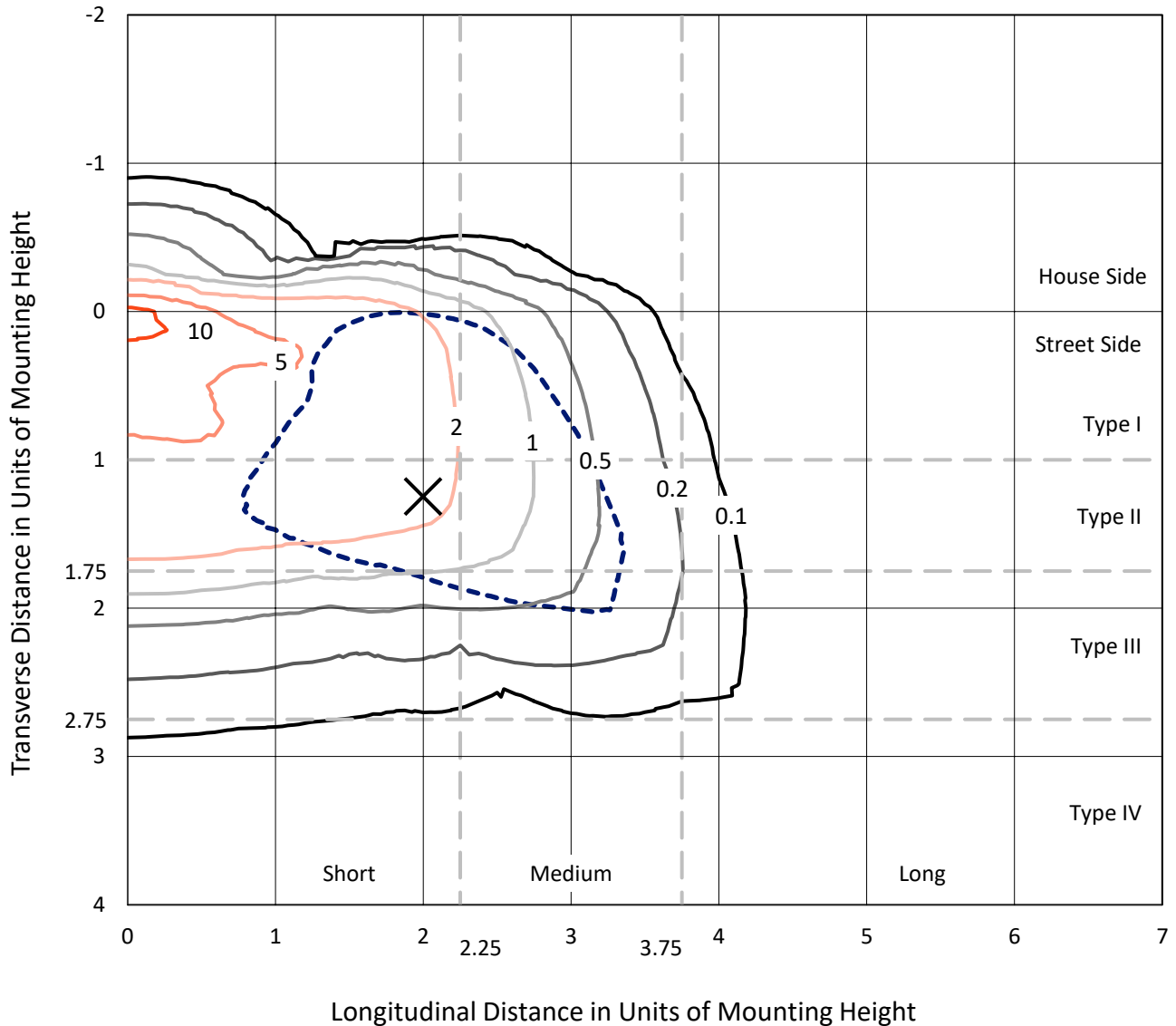
Lumens per Lamp: N/A  
Luminaire Lumens: 37045.4 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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: 24 FT

REPORT NUMBER: P484585  
 CATALOG NUMBER: IFLD-L-SA8D-830-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

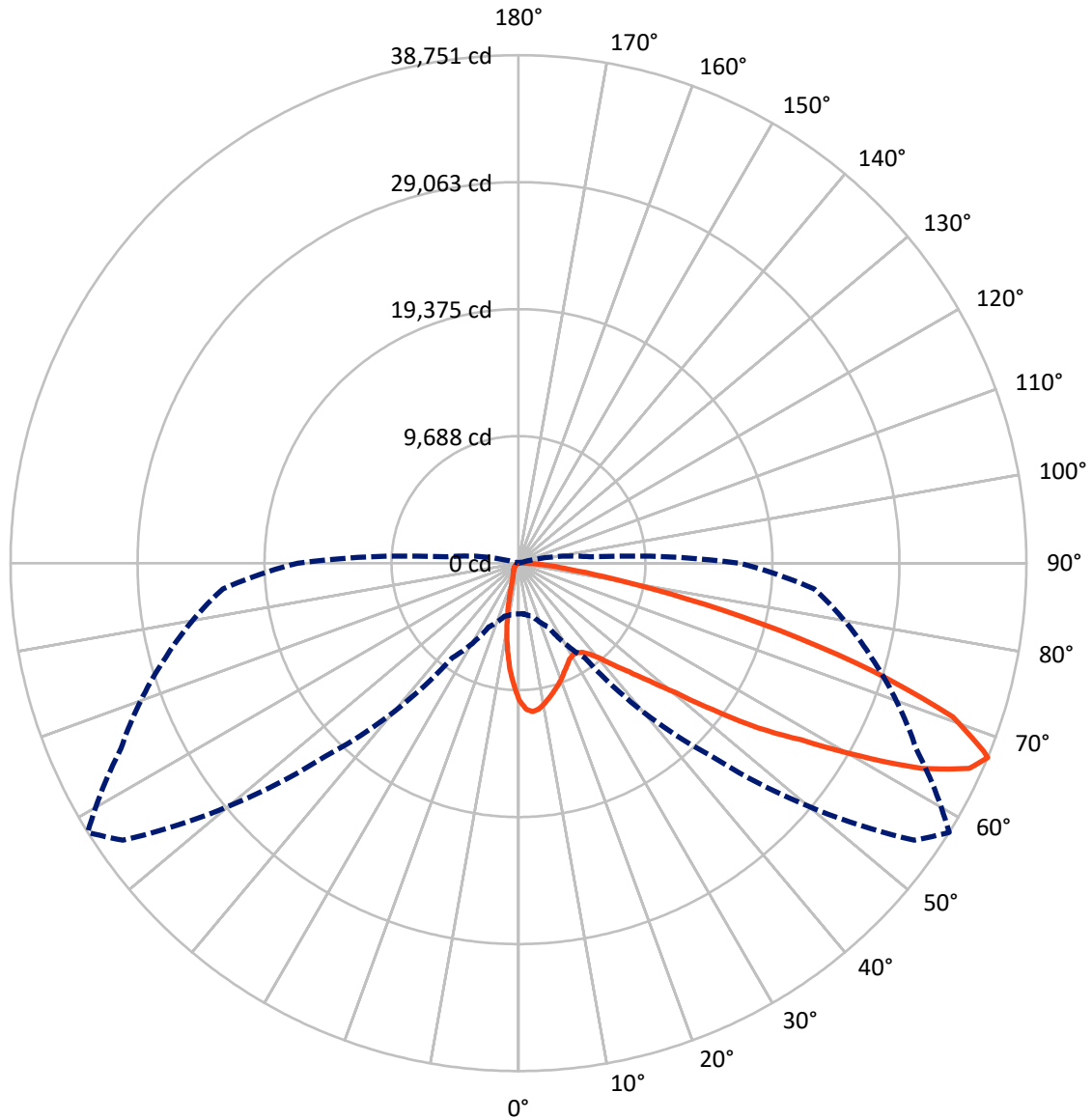
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P484585  
CATALOG NUMBER: IFLD-L-SA8D-830-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484585

CATALOG NUMBER: IFLD-L-SA8D-830-U-SL3-HSS

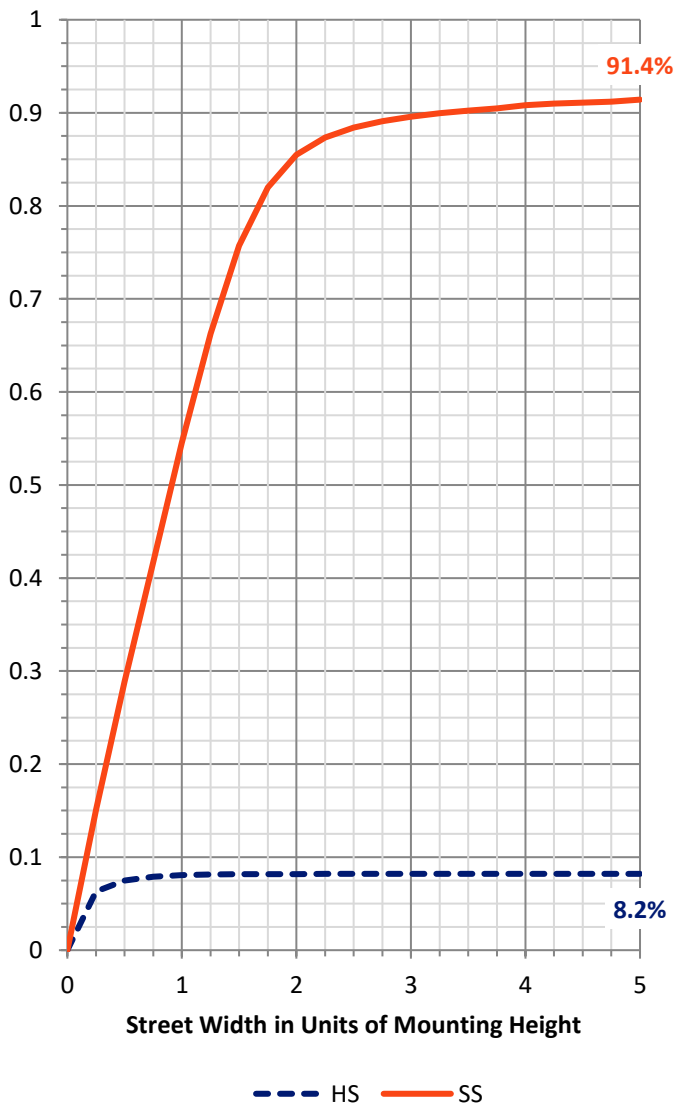
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3062.0	0.0	3062.0
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	33983.4	0.0	33983.4
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	37045.4	0.0	37045.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	832.8	2.2
10°-20°	1727.3	4.7
20°-30°	2291.8	6.2
30°-40°	3175.7	8.6
40°-50°	5181.8	14.0
50°-60°	9107.9	24.6
60°-70°	10087.7	27.2
70°-80°	4180.3	11.3
80°-90°	460.2	1.2
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°	37045.4	100.0
0°-180°	37045.4	100.0



REPORT NUMBER: P484585

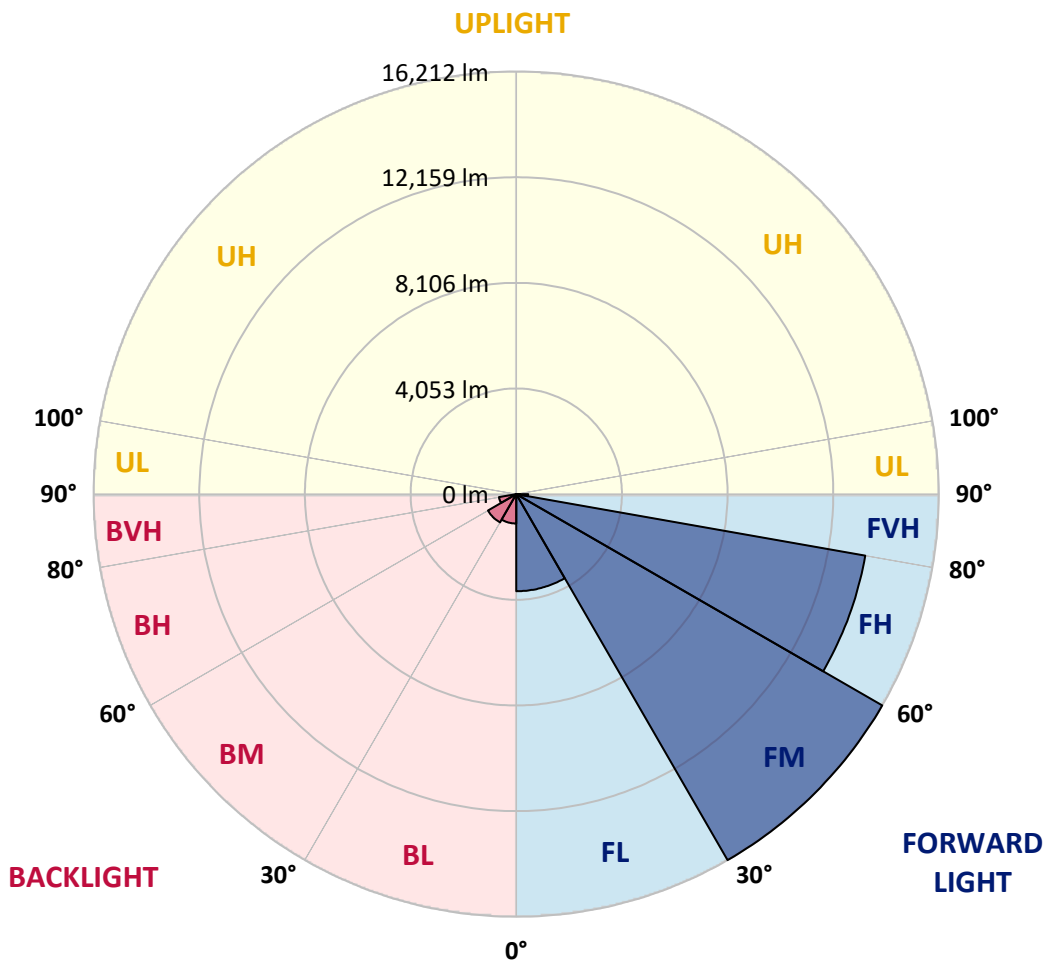
CATALOG NUMBER: IFLD-L-SA8D-830-U-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3724.1	10.1			
FM (30°-60°)	16211.8	43.8			
FH (60°-80°)	13594.8	36.7			G5
FVH (80°-90°)	452.6	1.2			G3/500
BL (0°-30°)	1127.8	3.0	B3/2500		
BM (30°-60°)	1253.5	3.4	B2/2500		
BH (60°-80°)	673.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P484585

CATALOG NUMBER: IFLD-L-SA8D-830-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5
2.5°	11420.1	11459.4	11493.9	11429.9	11484.0	11405.3	11203.7	11159.4	11125.0	10825.0	10652.9
5°	11415.2	11370.9	11405.3	11434.9	11361.1	11420.1	11370.9	11375.8	11243.0	10972.5	10490.6
7.5°	10652.9	10633.2	10652.9	10795.5	10957.8	11085.7	11159.4	11233.2	11144.7	10741.4	10274.2
10°	9625.0	9723.3	9777.4	10033.2	10284.0	10520.1	10751.2	10888.9	10864.3	10702.0	10038.1
12.5°	8906.9	8877.4	9074.1	9241.3	9492.2	9969.2	10372.5	10500.4	10647.9	10421.7	9728.2
15°	8242.9	8164.2	8282.3	8572.5	9000.3	9379.0	9944.6	10136.4	10323.3	10382.4	9561.0
17.5°	7608.5	7647.8	7770.8	8031.5	8434.7	8965.9	9497.1	9772.5	10220.1	10141.4	9310.2
20°	7303.6	7387.2	7431.4	7564.2	7844.6	8375.7	9167.6	9388.9	9865.9	10136.4	9064.3
22.5°	7318.3	7318.3	7215.0	7293.7	7549.5	7962.6	8720.0	8965.9	9723.3	9880.7	8843.0
25°	7475.7	7377.3	7382.2	7288.8	7397.0	7623.2	8316.7	8616.7	9433.1	9905.3	8724.9
27.5°	7593.7	7574.1	7544.5	7520.0	7382.2	7416.7	8051.1	8297.0	9320.0	9875.8	8542.9
30°	8021.6	7933.1	7903.6	7849.5	7667.5	7500.3	7839.6	8149.5	9231.5	9944.6	8439.7
32.5°	8380.6	8395.4	8420.0	8262.6	8105.2	7692.1	7898.7	8144.6	9167.6	10102.0	8542.9
35°	8833.1	8897.1	8906.9	8857.7	8690.5	8282.3	8144.6	8356.1	9275.8	10382.4	8552.8
37.5°	9521.7	9452.8	9639.7	9659.4	9541.3	9000.3	8715.1	8798.7	9595.4	10829.9	8926.6
40°	9969.2	10052.8	10402.0	10618.4	10416.8	9925.0	9541.3	9526.6	10057.8	11533.2	9388.9
42.5°	10466.0	10652.9	11036.5	11503.7	11479.1	11021.7	10633.2	10569.3	10879.1	12551.3	10121.7
45°	11144.7	11311.9	11848.0	12551.3	12934.9	12546.4	11961.1	11833.2	11877.5	13938.2	11370.9
47.5°	12271.0	12226.7	12998.9	13692.3	14321.9	14021.8	13771.0	13397.2	13362.8	15571.1	13097.2
50°	13544.8	13534.9	14223.5	15010.4	15738.3	16323.6	15905.5	15497.3	15507.1	17789.2	15128.4
52.5°	14754.7	14946.5	15689.1	16471.1	17720.3	18349.9	18753.2	18590.9	17808.9	19771.2	17302.3
55°	15394.0	15561.2	16299.0	17646.6	19618.8	21236.9	22328.7	22191.0	20681.1	22004.1	19446.6
57.5°	14789.1	14902.2	15900.6	17666.2	20946.7	24556.7	25604.2	25432.1	23651.7	23710.7	22038.5
60°	12256.2	12433.3	13918.6	15989.1	20430.3	27114.1	30114.3	29853.6	26356.7	25869.8	23705.8
62.5°	8488.8	8606.9	9826.6	12403.7	17981.0	28004.3	34373.4	34516.1	29209.3	27551.9	24202.6
65°	5498.6	5488.7	6187.1	7933.1	12743.1	25309.2	36891.6	37776.8	31963.5	27807.6	24050.1
67°	3885.4	3870.6	4200.2	5380.5	8823.3	20853.2	36847.3	38750.6	33458.6	27881.4	22638.6
67.5°	3585.4	3570.6	3885.4	4947.7	7962.6	19392.5	36296.5	38249.0	33984.9	27778.1	22018.9
70°	2783.7	2744.4	2862.4	3408.3	4637.9	12541.5	31063.5	35135.8	32893.0	25201.0	17582.6
72.5°	2011.6	2055.8	2242.7	2798.5	3639.5	6747.8	23676.3	28412.5	27473.2	18994.2	11174.2
75°	1401.7	1441.0	1741.0	2282.1	3339.5	4092.0	16008.8	20607.3	19136.8	10485.6	4760.8
77.5°	732.8	782.0	1111.5	1824.7	3034.5	3167.3	9565.9	13067.7	10141.4	3732.9	1313.2
80°	339.4	363.9	555.8	1293.5	2537.8	2783.7	5577.3	7269.1	4057.5	836.1	452.5
82.5°	147.5	162.3	255.7	742.7	1800.1	2434.5	3452.6	3811.6	1470.5	270.5	280.3
85°	29.5	34.4	98.4	393.5	870.5	1475.5	2424.7	2262.4	737.7	132.8	221.3
87.5°	0.0	0.0	24.6	113.1	236.1	437.7	1027.9	1027.9	226.2	68.9	83.6
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: P484585

CATALOG NUMBER: IFLD-L-SA8D-830-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5	10495.5
2.5°	10500.4	10323.3	9934.8	9575.8	9320.0	9029.8	8646.2	8474.1	8410.2	8321.6	8188.8
5°	10225.0	10008.6	9344.6	8675.7	7942.9	7387.2	6797.0	6452.7	6192.0	6029.7	5975.6
7.5°	9836.4	9393.8	8498.7	7426.5	6477.3	5651.0	4755.9	4151.0	3762.4	3605.1	3457.5
10°	9526.6	8951.2	7588.8	6256.0	4992.0	3782.1	2773.9	2242.7	1839.4	1686.9	1667.3
12.5°	9123.3	8434.7	6738.0	5060.8	3472.3	2252.5	1534.5	1332.8	1219.7	1200.0	1185.3
15°	8788.9	7967.5	5931.4	3919.8	2247.6	1406.6	1195.1	1145.9	1116.4	1106.6	1111.5
17.5°	8562.6	7465.9	5105.1	2852.6	1480.4	1150.9	1101.7	1072.2	1057.4	1052.5	1037.7
20°	8115.1	7042.9	4288.7	1996.8	1155.8	1062.3	1023.0	998.4	983.6	978.7	973.8
22.5°	7859.3	6506.8	3472.3	1391.9	1027.9	964.0	934.5	914.8	890.2	875.4	870.5
25°	7603.6	6113.3	2744.4	1082.0	934.5	890.2	845.9	821.3	782.0	762.3	757.4
27.5°	7303.6	5724.8	2114.8	939.4	841.0	796.8	752.5	713.1	664.0	644.3	634.5
30°	7131.4	5346.1	1593.5	841.0	772.2	713.1	659.0	609.9	555.8	521.3	511.5
32.5°	7042.9	5001.8	1195.1	767.2	698.4	634.5	565.6	506.6	457.4	427.9	423.0
35°	6934.7	4667.4	939.4	698.4	629.5	560.7	491.8	432.8	383.6	359.0	349.2
37.5°	7047.8	4470.7	782.0	644.3	575.4	496.7	423.0	363.9	324.6	300.0	295.1
40°	7357.7	4308.4	678.7	595.1	521.3	437.7	368.9	309.8	275.4	255.7	245.9
42.5°	7834.7	4308.4	614.8	545.9	472.1	383.6	314.8	270.5	236.1	216.4	211.5
45°	8700.3	4441.2	560.7	496.7	413.1	329.5	270.5	226.2	191.8	172.1	167.2
47.5°	9915.1	4746.1	516.4	452.5	368.9	290.2	236.1	191.8	157.4	137.7	132.8
50°	11548.0	5439.5	472.1	398.4	329.5	250.8	196.7	152.5	123.0	103.3	98.4
52.5°	13584.1	6423.2	427.9	368.9	280.3	211.5	157.4	123.0	93.4	78.7	73.8
55°	15738.3	7628.2	373.8	329.5	241.0	177.1	127.9	93.4	68.9	59.0	54.1
57.5°	17907.2	8557.7	329.5	285.3	196.7	142.6	103.3	73.8	49.2	39.3	34.4
60°	19058.1	8646.2	285.3	236.1	157.4	113.1	78.7	54.1	34.4	24.6	19.7
62.5°	19235.2	7859.3	245.9	191.8	127.9	88.5	54.1	39.3	19.7	9.8	9.8
65°	18325.3	6551.1	211.5	152.5	98.4	63.9	39.3	24.6	9.8	4.9	0.0
67°	16849.8	5488.7	182.0	127.9	78.7	49.2	29.5	14.8	4.9	0.0	0.0
67.5°	16279.3	5193.6	172.1	118.0	73.8	44.3	24.6	14.8	4.9	0.0	0.0
70°	12634.9	3708.3	127.9	83.6	54.1	34.4	19.7	9.8	0.0	0.0	0.0
72.5°	7741.3	2168.9	98.4	59.0	39.3	24.6	14.8	4.9	0.0	0.0	0.0
75°	3246.0	747.6	83.6	44.3	29.5	14.8	9.8	4.9	0.0	0.0	0.0
77.5°	845.9	280.3	59.0	29.5	19.7	14.8	9.8	4.9	0.0	0.0	0.0
80°	344.3	127.9	39.3	19.7	19.7	14.8	9.8	4.9	0.0	0.0	0.0
82.5°	226.2	59.0	24.6	19.7	14.8	9.8	4.9	0.0	0.0	0.0	0.0
85°	172.1	34.4	14.8	14.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	73.8	19.7	14.8	9.8	9.8	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)