

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: P299995

Luminaire Tested: **GAA-AF-07-LED-U-SL3-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-07-LED-U-SL3-8030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI
3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III w/Spill
Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26663.9 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

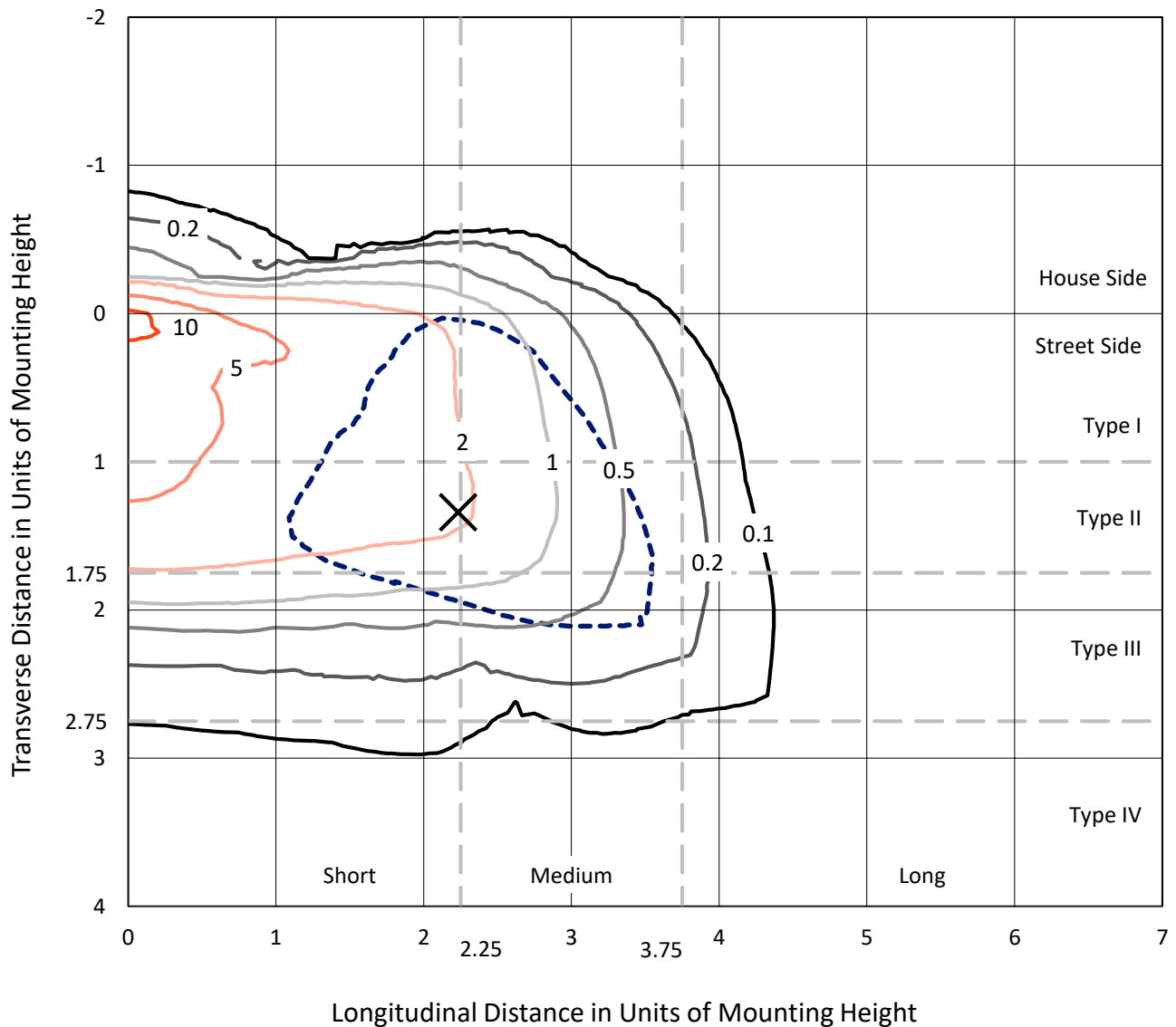
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

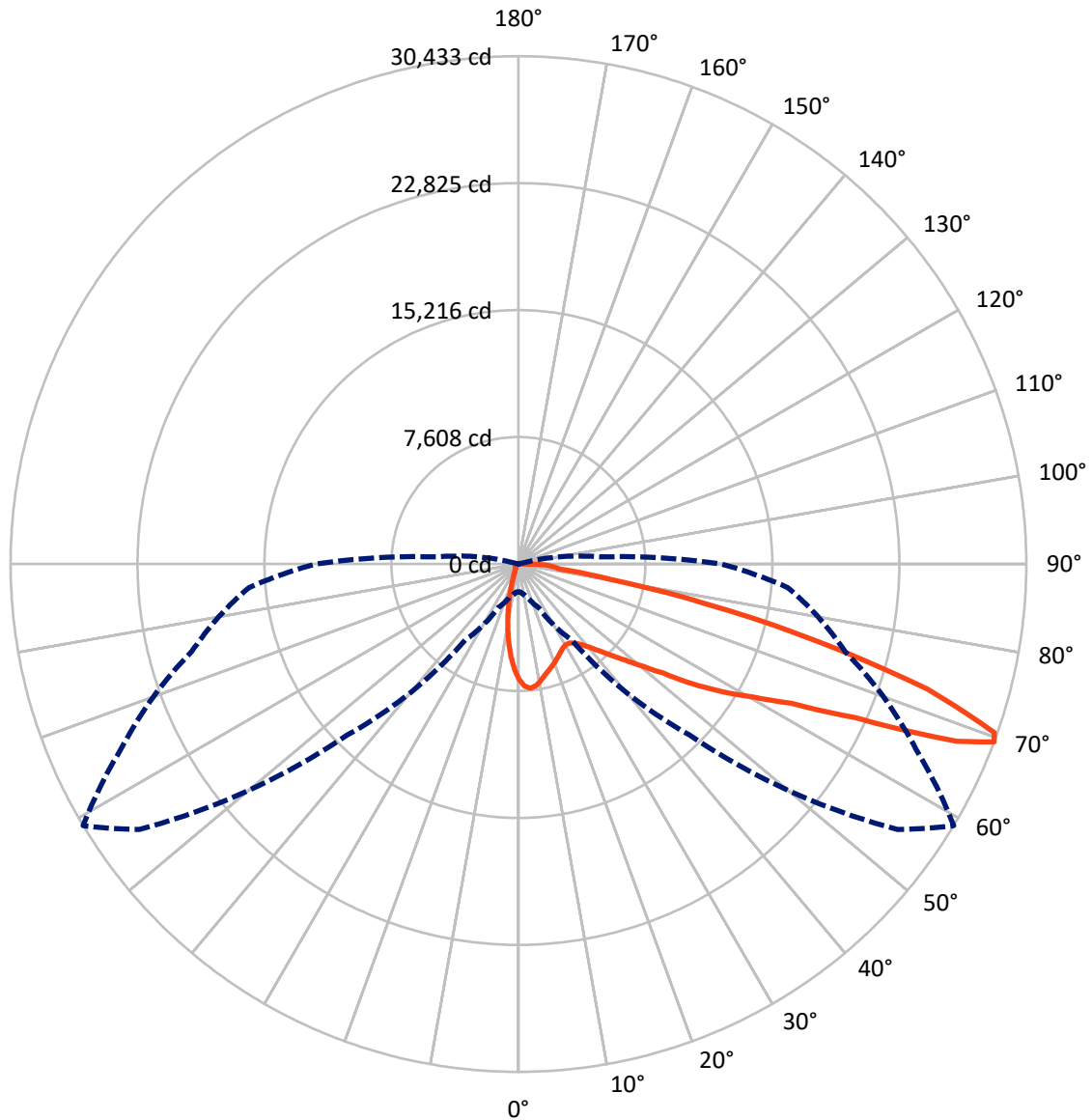
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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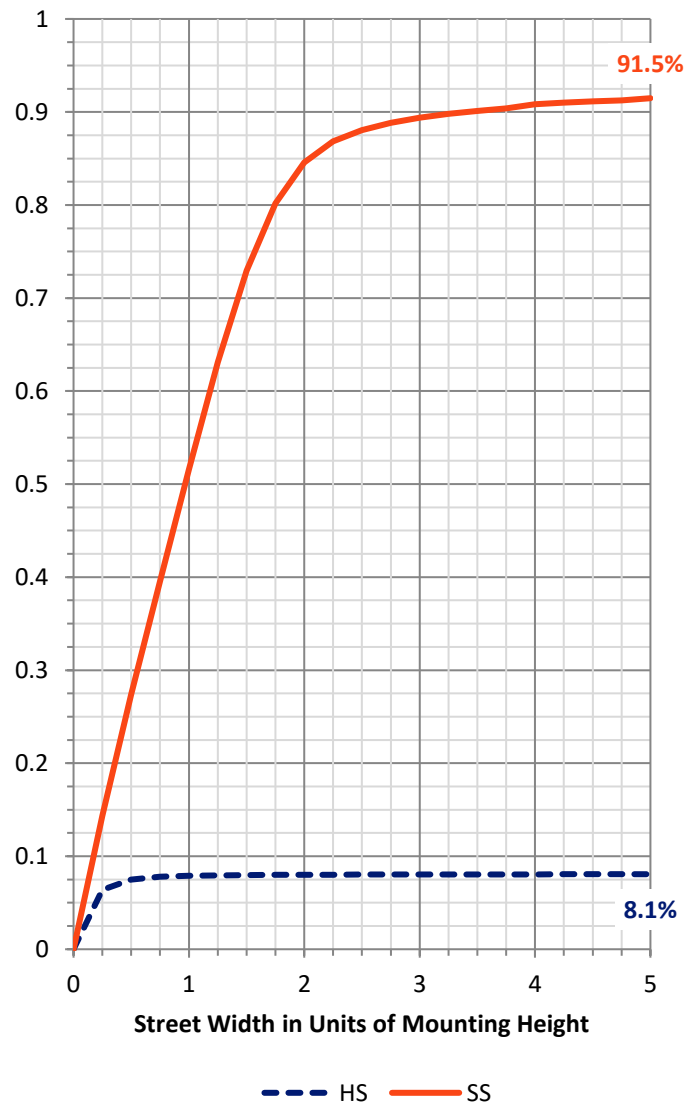
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2171.4	0.0	2171.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	24492.5	0.0	24492.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	26663.9	0.0	26663.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.3	2.1
10°-20°	1164.0	4.4
20°-30°	1566.3	5.9
30°-40°	2274.2	8.5
40°-50°	3786.7	14.2
50°-60°	5907.3	22.2
60°-70°	7309.8	27.4
70°-80°	3704.5	13.9
80°-90°	387.6	1.5
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°	26663.9	100.0
0°-180°	26663.9	100.0



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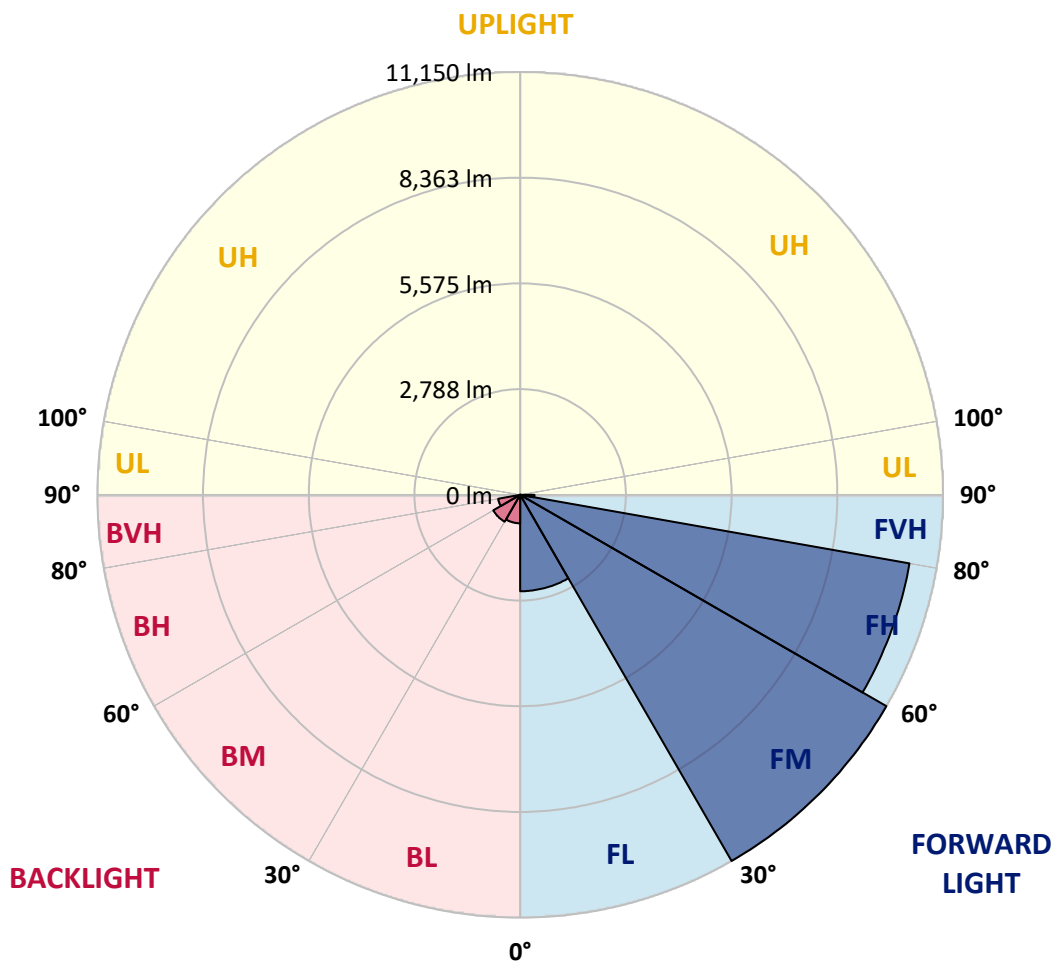
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2542.1	9.5			
FM	(30°-60°)	11150.1	41.8			
FH	(60°-80°)	10424.6	39.1			G4/12000
FVH	(80°-90°)	375.7	1.4			G3/500
BL	(0°-30°)	751.6	2.8	B2/1000		
BM	(30°-60°)	818.2	3.1	B1/1000		
BH	(60°-80°)	589.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1
2.5°	7606.6	7603.8	7570.5	7555.4	7528.1	7471.0	7382.0	7335.4	7260.1	7128.6	6952.4
5°	7537.2	7573.7	7592.9	7594.7	7614.3	7592.9	7513.0	7474.2	7370.1	7158.8	6842.4
7.5°	7067.0	7080.2	7136.4	7184.3	7277.9	7366.9	7395.7	7378.8	7317.2	7091.2	6670.3
10°	6563.5	6576.7	6643.4	6706.4	6833.3	6970.2	7114.9	7145.5	7171.1	6994.4	6504.6
12.5°	6128.9	6142.6	6210.6	6293.2	6441.1	6610.0	6834.6	6884.4	6997.6	6902.7	6371.8
15°	5755.0	5761.0	5827.6	5929.9	6106.5	6323.4	6578.5	6658.4	6831.9	6837.8	6255.8
17.5°	5436.9	5451.9	5493.0	5590.7	5783.8	6052.2	6349.4	6464.0	6667.1	6783.5	6142.6
20°	5242.4	5257.5	5256.1	5310.4	5483.9	5770.1	6120.2	6257.2	6504.6	6727.8	6041.7
22.5°	5205.0	5205.0	5165.7	5157.9	5260.6	5500.3	5881.9	6049.0	6358.1	6703.6	5971.0
25°	5339.2	5332.8	5235.1	5155.2	5159.8	5302.6	5651.0	5850.0	6234.8	6720.1	5933.1
27.5°	5622.6	5614.9	5491.2	5339.2	5216.8	5215.5	5476.1	5690.2	6136.7	6798.6	5948.1
30°	6014.3	6011.6	5877.4	5685.6	5464.2	5260.6	5415.9	5610.3	6073.2	6940.1	5982.8
32.5°	6442.5	6437.9	6337.1	6135.3	5854.5	5464.2	5479.3	5642.3	6091.5	7128.6	6067.3
35°	6896.7	6889.0	6845.1	6668.9	6359.9	5839.5	5687.5	5813.9	6206.0	7410.7	6233.0
37.5°	7387.9	7395.7	7427.2	7258.3	6934.2	6365.8	6035.8	6121.6	6436.6	7793.7	6502.8
40°	8113.3	8111.9	8122.4	7900.6	7588.8	7009.5	6522.4	6549.8	6822.8	8301.8	6913.2
42.5°	9429.4	9337.6	9058.7	8606.3	8292.7	7745.4	7136.4	7107.6	7294.8	8930.4	7487.4
45°	11198.3	11002.0	10278.4	9411.6	9010.3	8574.8	7891.4	7799.7	7918.8	9685.9	8196.4
47.5°	12719.3	12515.7	11492.3	10249.7	9771.7	9361.8	8776.6	8610.9	8650.1	10531.8	9094.7
50°	13236.5	13137.0	12243.2	10979.6	10509.0	10352.4	9803.7	9601.5	9545.8	11510.1	10136.5
52.5°	13057.1	13049.8	12454.1	11453.0	11184.6	11377.7	11095.6	10861.8	10656.9	12541.7	11196.5
55°	12769.1	12807.0	12539.9	11867.5	11858.4	12314.0	12862.7	12668.2	12074.3	13662.0	12110.4
57.5°	11974.8	12135.9	12492.0	12651.8	13022.4	13488.5	14334.4	14449.0	13746.4	14519.7	12868.6
60°	9716.0	10070.3	11234.3	12764.5	14522.9	15683.8	16110.6	16208.3	15118.2	15232.8	13892.5
62.5°	6896.7	7258.3	8734.6	11323.4	14545.3	18567.9	18756.5	18372.1	16629.2	16290.0	15658.2
65°	3660.6	3940.0	5146.1	8173.5	12611.1	19237.6	23384.0	22238.2	19294.7	18368.9	17939.3
67.5°	1872.5	1957.0	2436.8	4000.3	8669.8	17087.5	27531.7	28338.3	23888.8	20431.8	17829.3
69°	1657.1	1706.8	2025.0	2891.9	5551.4	14473.2	27733.9	30432.7	26294.1	20259.7	16202.4
70°	1604.1	1647.9	1937.4	2617.5	4339.4	12137.3	26960.1	30248.7	26909.0	19605.5	14987.2
72.5°	1361.7	1399.2	1725.1	2313.1	3526.9	6024.8	21900.3	25632.2	24146.8	16332.0	10848.1
75°	910.7	1034.4	1655.7	2168.4	3280.8	3422.8	14438.5	18522.7	17206.7	11015.7	5651.0
77.5°	218.7	235.1	467.5	1725.1	3000.5	3012.4	7425.8	11514.6	9391.9	3926.3	1335.7
80°	117.8	113.2	131.0	342.4	2793.7	2827.1	3342.9	5589.3	3353.4	651.4	440.1
82.5°	83.1	78.5	84.5	143.3	879.2	2575.1	2418.5	2529.9	1390.0	250.2	197.7
85°	30.1	28.8	46.6	129.6	275.7	1480.4	2484.7	2086.6	1126.2	114.6	144.7
87.5°	10.5	9.1	18.3	70.8	84.5	630.4	1533.4	1577.2	443.3	69.4	68.0
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°	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1	6940.1
2.5°	6878.5	6784.9	6613.2	6436.6	6273.6	6077.8	5979.6	5883.3	5842.7	5827.6	5756.9
5°	6679.4	6521.0	6156.3	5789.7	5451.9	5093.1	4856.7	4666.7	4554.9	4500.6	4414.8
7.5°	6424.7	6165.4	5611.7	5046.6	4520.2	4001.6	3617.3	3321.5	3117.9	3020.2	2931.2
10°	6177.3	5832.2	5045.2	4274.6	3559.7	2872.3	2341.4	1957.0	1711.4	1598.2	1526.1
12.5°	5955.9	5508.1	4497.8	3522.3	2624.8	1820.0	1280.0	974.2	821.7	768.7	743.2
15°	5758.2	5209.5	3980.6	2807.4	1777.6	1040.4	699.8	595.7	571.5	571.5	568.3
17.5°	5571.1	4916.9	3481.2	2136.4	1115.7	636.4	532.3	518.6	518.6	524.5	524.5
20°	5391.7	4638.0	2998.7	1533.4	702.5	504.9	481.1	478.0	481.1	488.4	488.4
22.5°	5237.8	4384.6	2548.2	1052.2	521.8	455.1	443.3	438.7	440.1	444.6	447.8
25°	5123.2	4170.5	2123.2	713.0	449.2	414.5	401.3	393.5	387.6	387.6	390.3
27.5°	5051.1	3989.8	1711.4	518.6	404.0	377.1	355.6	343.7	330.0	322.7	325.5
30°	4998.2	3817.7	1325.2	423.6	362.0	334.6	307.7	288.0	268.4	259.3	262.5
32.5°	4978.5	3678.9	990.6	373.9	324.1	294.0	260.7	235.1	214.1	206.3	208.2
35°	5031.5	3568.9	725.4	337.8	294.0	256.1	218.7	189.9	173.5	168.9	170.3
37.5°	5170.3	3510.0	542.8	307.7	267.0	224.6	182.6	155.2	144.7	144.7	146.1
40°	5432.3	3508.6	436.0	286.7	242.9	194.5	150.6	131.0	125.1	128.3	129.6
42.5°	5815.3	3588.5	379.8	267.0	221.9	165.7	125.1	111.4	110.0	113.2	114.6
45°	6338.4	3734.6	349.7	250.2	199.0	138.8	105.5	96.3	96.3	100.9	102.7
47.5°	6979.4	3948.7	324.1	233.7	176.2	115.9	90.4	84.5	85.8	90.4	91.8
50°	7751.3	4218.9	298.5	215.5	159.8	96.3	78.5	74.0	75.3	81.3	83.1
52.5°	8630.5	4582.3	277.5	199.0	138.8	79.9	66.2	63.5	66.2	72.6	74.0
55°	9384.2	4907.8	252.0	185.3	111.4	66.2	54.3	54.3	57.5	64.8	66.2
57.5°	10109.5	5248.3	229.2	159.8	87.6	53.0	45.2	46.6	51.1	58.9	60.3
60°	11174.1	5825.8	202.2	134.2	66.2	42.0	37.9	39.3	45.2	53.0	54.3
62.5°	12981.8	6705.0	174.8	111.4	51.1	33.3	30.1	33.3	40.6	49.8	51.1
65°	14613.3	7062.4	143.3	93.6	39.3	25.6	25.6	30.1	39.3	48.4	49.8
67.5°	13704.0	5944.9	111.4	74.0	30.1	19.6	21.0	28.8	37.9	48.4	49.8
69°	12119.5	4861.2	95.0	58.9	25.6	18.3	19.6	28.8	37.9	46.6	48.4
70°	10884.7	4104.3	84.5	49.8	22.8	18.3	19.6	26.9	37.9	46.6	48.4
72.5°	7290.2	2216.3	68.0	36.1	21.0	16.4	16.4	26.9	36.1	45.2	46.6
75°	3132.9	612.2	54.3	25.6	18.3	15.1	15.1	25.6	34.7	43.8	46.6
77.5°	572.9	155.2	43.8	22.8	18.3	15.1	13.7	24.2	33.3	42.0	43.8
80°	227.8	76.7	34.7	19.6	16.4	13.7	11.9	22.8	31.5	40.6	42.0
82.5°	137.4	43.8	28.8	18.3	16.4	11.9	10.5	19.6	30.1	39.3	40.6
85°	111.4	30.1	22.8	18.3	15.1	11.9	9.1	18.3	26.9	37.9	39.3
87.5°	54.3	21.0	21.0	16.4	15.1	11.9	9.1	16.4	25.6	36.1	37.9
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)