

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: LUMARK

Report Number: P285768

Luminaire Tested: **PRV-XL-C150-D-UNV-T2-BZ-7030-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C150-D-UNV-T2-BZ-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37380 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

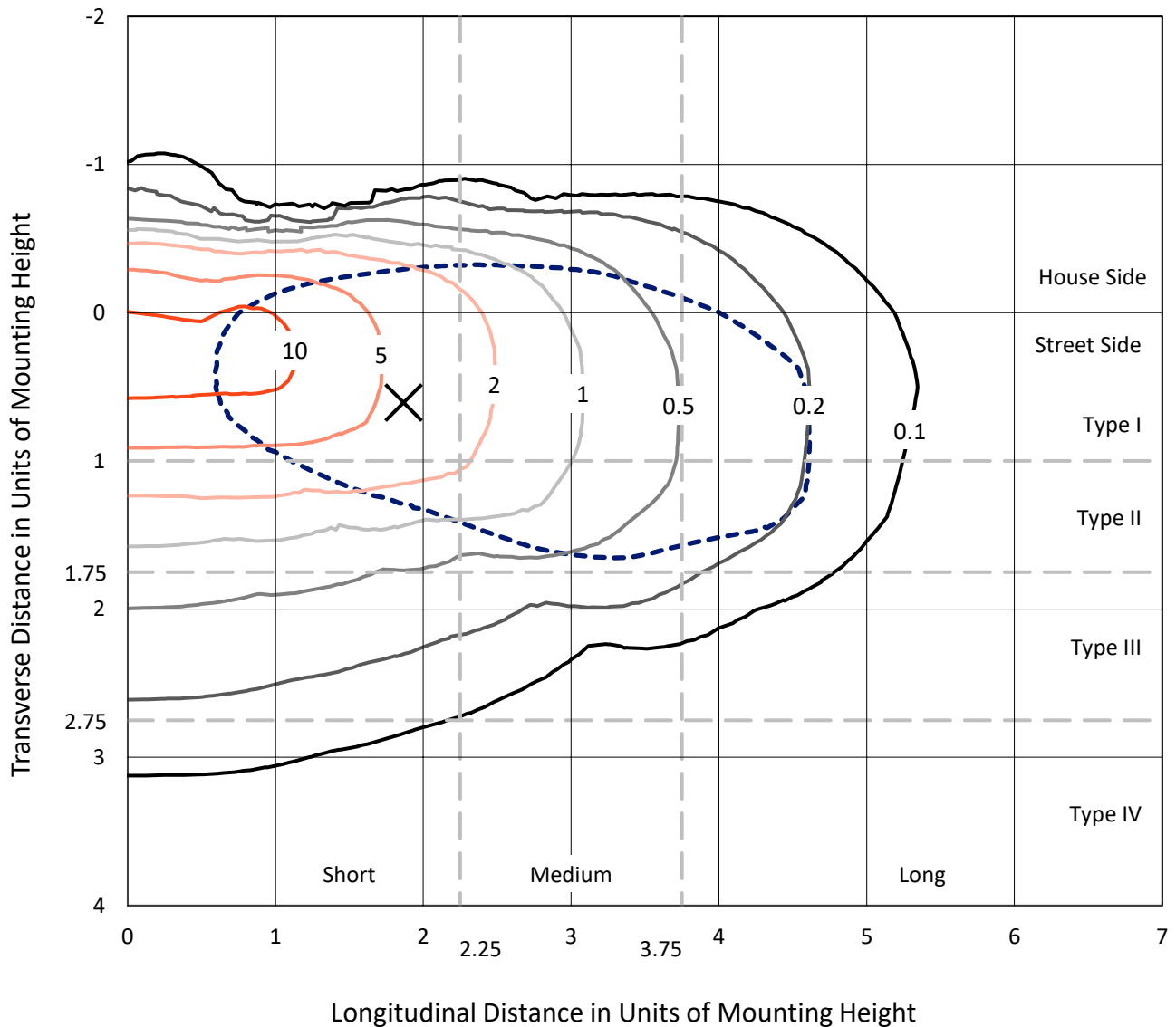
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

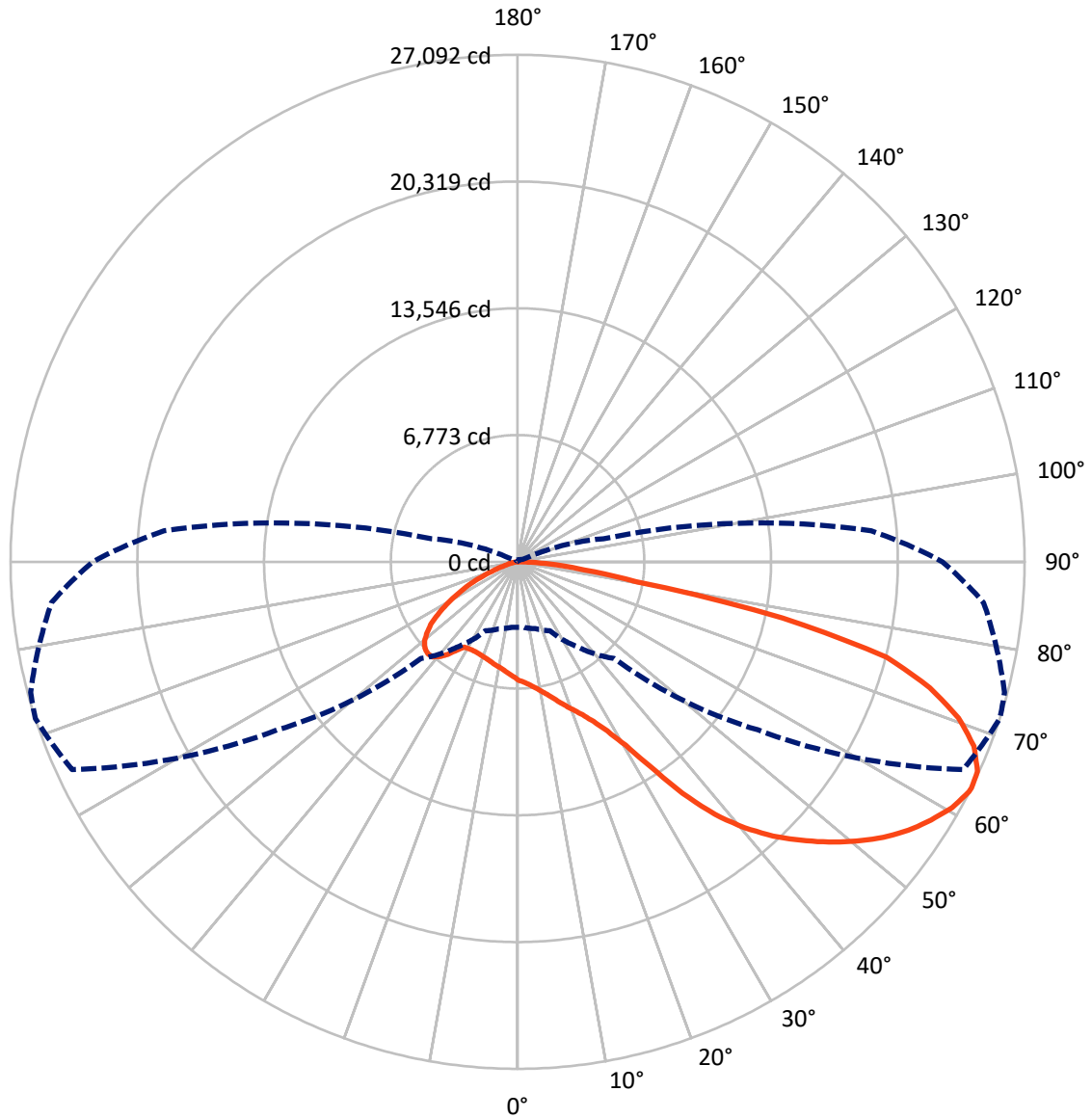
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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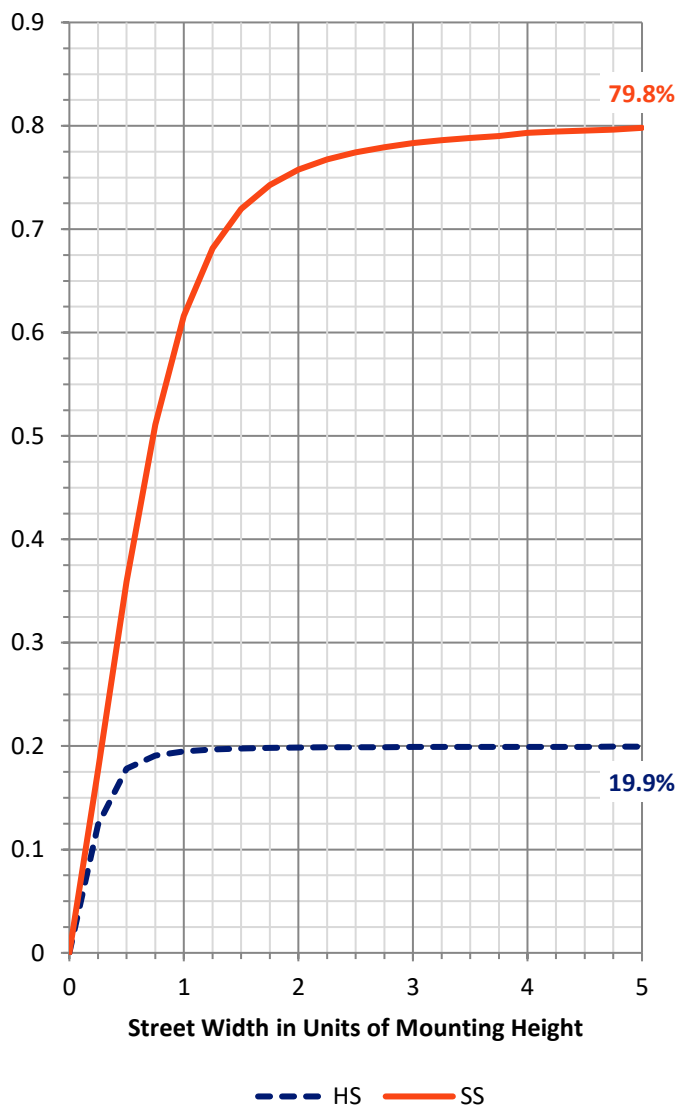
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7541.3	0.0	7541.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	29838.7	0.0	29838.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	37380.0	0.0	37380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.1	1.6
10°-20°	1831.9	4.9
20°-30°	3091.0	8.3
30°-40°	4730.6	12.7
40°-50°	6590.3	17.6
50°-60°	7638.2	20.4
60°-70°	7488.1	20.0
70°-80°	4675.1	12.5
80°-90°	730.7	2.0
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°	37380.0	100.0
0°-180°	37380.0	100.0

Coefficient of Utilization



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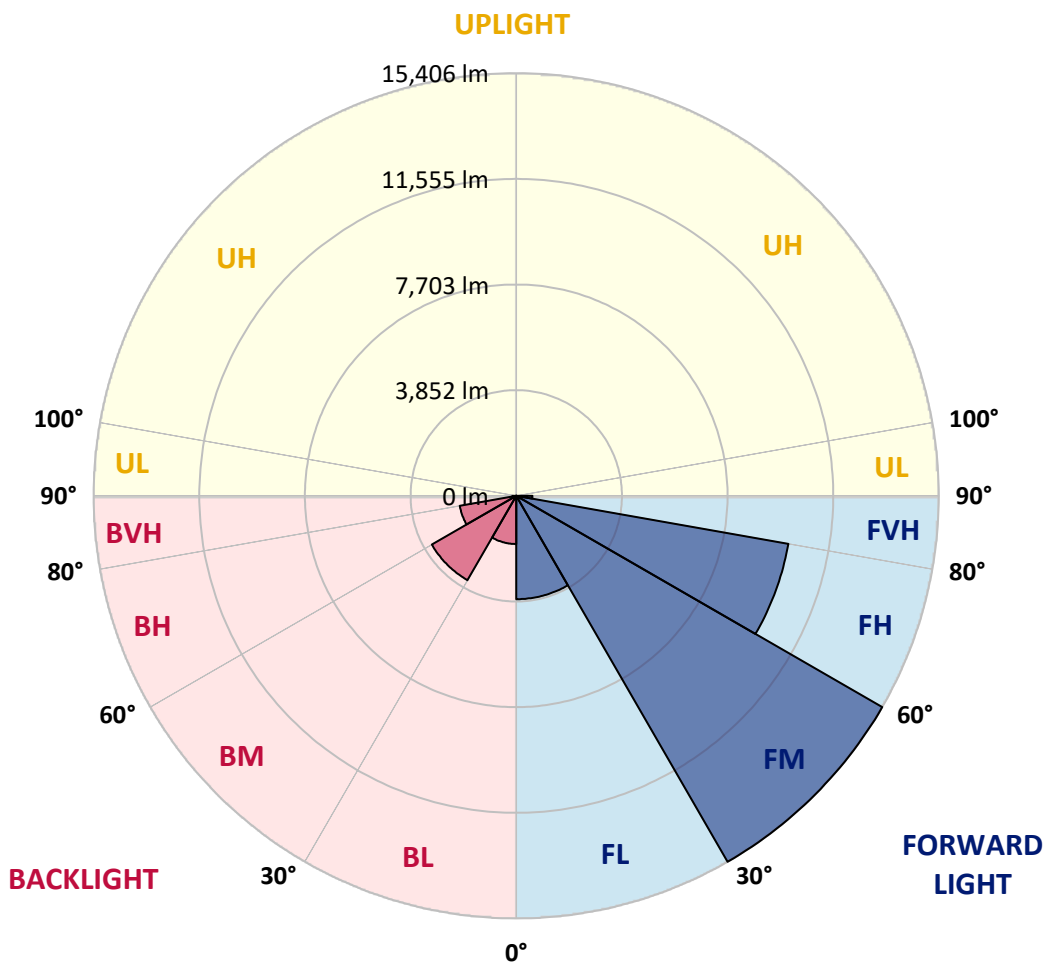
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3768.9	10.1			
FM (30°-60°)	15406.3	41.2			
FH (60°-80°)	10072.7	26.9			G4/12000
FVH (80°-90°)	590.7	1.6			G4/750
BL (0°-30°)	1758.1	4.7	B3/2500		
BM (30°-60°)	3552.7	9.5	B3/5000		
BH (60°-80°)	2090.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	140.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1
2.5°	6874.3	6855.8	6835.7	6810.9	6790.8	6729.0	6673.4	6566.7	6435.3	6429.1	6322.5
5°	7342.7	7313.3	7290.1	7246.9	7198.9	7089.2	6960.9	6781.6	6594.5	6565.2	6376.6
7.5°	7733.8	7702.9	7676.6	7621.0	7566.9	7432.4	7267.0	7025.8	6793.9	6735.2	6452.3
10°	8075.4	8044.5	8032.1	7971.9	7933.2	7786.4	7580.8	7319.5	7028.9	6939.2	6566.7
12.5°	8435.6	8403.1	8381.5	8318.1	8271.8	8115.6	7933.2	7641.1	7311.8	7215.9	6730.6
15°	8791.2	8761.8	8712.3	8678.3	8624.2	8461.9	8290.3	7985.8	7658.1	7537.5	6950.1
17.5°	9118.9	9094.1	9057.0	9027.7	8982.8	8814.3	8627.3	8369.1	8033.7	7885.3	7202.0
20°	9360.0	9361.6	9346.1	9330.6	9346.1	9208.5	9057.0	8769.5	8424.8	8251.7	7463.3
22.5°	9567.2	9579.5	9599.6	9622.8	9721.7	9653.7	9471.3	9237.9	8868.4	8664.4	7798.7
25°	9669.2	9678.5	9768.1	9919.6	10142.2	10140.7	9970.6	9802.1	9451.2	9239.4	8265.6
27.5°	9729.5	9741.8	9867.1	10171.6	10564.2	10624.5	10554.9	10480.7	10236.5	10024.7	8882.4
30°	9726.4	9743.4	9936.6	10318.4	10896.6	11202.6	11208.8	11482.4	11366.5	11221.2	9922.7
32.5°	9494.5	9500.7	9769.7	10332.3	11147.0	11715.9	11970.9	12688.2	13046.8	13073.1	11844.2
35°	8944.2	9023.0	9424.9	10207.1	11327.9	12218.3	12878.3	14229.4	15181.6	15226.5	13773.4
37.5°	8548.5	8596.4	9053.9	9983.0	11411.3	12742.3	13920.2	16079.8	17121.6	17011.9	15370.2
40°	8115.6	8174.4	8644.3	9683.1	11358.8	13192.1	14982.2	17855.9	18690.7	18519.1	16730.5
42.5°	7636.4	7685.9	8128.0	9239.4	11191.8	13516.8	16007.1	19390.9	20032.4	19822.2	17967.2
45°	7164.9	7197.4	7616.3	8641.2	10870.3	13714.6	16942.3	20772.9	21222.7	21045.0	19106.5
47.5°	6566.7	6605.3	7118.6	8070.8	10281.3	13708.4	17752.3	22001.8	22377.5	22179.6	20122.1
50°	5064.1	5088.9	6222.0	7552.9	9520.8	13436.4	18446.4	23114.8	23468.8	23243.1	21126.9
52.5°	4588.0	4608.1	4959.0	6908.3	8690.7	12872.1	18902.4	24141.3	24461.3	24220.1	22074.5
55°	4360.8	4374.7	4544.7	5622.2	7962.6	11904.5	19103.4	25092.0	25334.7	25022.4	22844.3
57.5°	4039.3	4067.1	4323.7	4815.3	7250.0	10418.9	18815.9	25860.2	26042.6	25736.6	23594.0
60°	3795.0	3812.0	4028.4	4418.0	6388.9	8757.1	17789.4	26379.6	26676.4	26399.7	24298.9
62.5°	3557.0	3563.1	3744.0	4122.7	5640.7	7515.8	16038.0	26347.2	27066.0	26894.4	24914.2
63°	3505.9	3512.1	3696.1	4068.6	5531.0	7310.2	15654.6	26268.3	27092.3	26936.1	24996.1
65°	3289.5	3298.8	3478.1	3821.3	5054.9	6659.4	13957.3	25782.9	27004.2	26999.5	25105.9
67.5°	2966.5	2983.5	3136.5	3430.2	4405.6	5837.1	11340.2	25265.1	26296.2	26351.8	24492.2
70°	2575.4	2587.7	2760.9	3008.2	3706.9	4955.9	8684.5	23609.5	24994.6	24840.0	23070.0
72.5°	2161.1	2182.7	2348.1	2539.8	3074.7	4088.7	6288.4	20785.3	23040.6	23155.0	20684.8
75°	1885.9	1898.3	2040.5	2176.5	2553.7	3254.0	4206.2	14925.0	20372.5	20401.9	17843.5
77.5°	1564.4	1579.8	1726.7	1855.0	2071.4	2450.1	2901.5	7757.0	14486.0	15308.4	13855.3
80°	862.6	1001.7	1244.4	1338.7	1499.5	1488.6	1845.7	4099.5	6410.6	8015.1	9151.3
82.5°	145.3	187.0	502.4	655.4	714.2	627.6	896.6	2256.9	3574.0	4101.1	4925.0
85°	61.8	89.7	262.8	287.5	179.3	174.7	354.0	1181.0	2045.1	2355.8	2538.3
87.5°	7.7	13.9	68.0	89.7	41.7	57.2	71.1	369.5	712.6	819.3	926.0
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°	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1
2.5°	6271.4	6235.9	6154.0	6090.6	6044.2	5980.8	5912.8	5863.3	5810.8	5787.6	5796.9
5°	6280.7	6201.9	6027.2	5889.6	5736.6	5623.7	5476.9	5402.7	5322.3	5282.1	5280.6
7.5°	6305.5	6181.8	5906.6	5690.2	5472.2	5296.0	5104.3	4972.9	4901.8	4849.3	4843.1
10°	6367.3	6191.1	5815.4	5521.7	5240.4	5003.9	4770.4	4600.4	4503.0	4448.9	4456.6
12.5°	6478.6	6225.1	5750.5	5384.1	5022.4	4741.1	4442.7	4243.3	4124.3	4057.8	4076.4
15°	6631.6	6299.3	5684.0	5214.1	4789.0	4458.2	4139.7	3914.0	3781.1	3723.9	3742.5
17.5°	6803.2	6407.5	5637.7	5024.0	4543.2	4169.1	3873.9	3652.8	3430.2	3385.4	3385.4
20°	6994.9	6528.1	5629.9	4843.1	4300.5	3894.0	3553.9	3368.4	3045.3	2935.5	2912.3
22.5°	7248.4	6698.1	5620.6	4677.7	4042.4	3609.5	3192.1	2900.0	2481.1	2292.5	2273.9
25°	7597.8	6933.1	5636.1	4541.7	3807.4	3289.5	2694.4	2226.0	1873.5	1637.0	1624.7
27.5°	8066.2	7246.9	5685.6	4414.9	3572.4	2895.3	2086.9	1587.6	1315.5	1103.7	1040.3
30°	8951.9	7743.1	5772.1	4302.1	3298.8	2366.7	1484.0	1074.4	879.6	732.7	700.3
32.5°	10644.6	8989.0	5891.2	4176.8	2961.8	1743.7	990.9	717.3	559.6	474.6	493.1
35°	12332.7	10542.6	6458.5	3992.9	2518.2	1160.9	661.6	457.6	352.4	349.4	369.5
37.5°	13853.8	11916.8	7225.2	3787.3	1924.6	780.6	397.3	304.5	295.3	321.5	361.7
40°	15115.2	13032.9	7872.9	3499.8	1321.7	477.7	259.7	276.7	262.8	273.6	269.0
42.5°	16286.9	14037.7	8398.5	3173.6	779.1	275.2	225.7	256.6	236.5	227.2	208.7
45°	17341.2	14985.3	8662.8	2660.4	454.5	219.5	205.6	242.7	228.8	211.8	184.0
47.5°	18301.1	15817.0	8836.0	1958.6	261.2	191.7	191.7	218.0	214.9	194.8	179.3
50°	19296.6	16630.1	8819.0	1202.7	221.1	176.2	182.4	182.4	193.2	151.5	137.6
52.5°	20176.2	17361.2	8466.5	681.7	204.0	166.9	165.4	148.4	157.7	117.5	109.8
55°	20890.4	17930.1	7874.5	449.8	193.2	165.4	145.3	128.3	120.6	85.0	88.1
57.5°	21592.2	18471.2	6968.6	355.5	201.0	159.2	132.9	109.8	94.3	66.5	63.4
60°	22269.3	18902.4	6008.7	320.0	211.8	159.2	109.8	92.7	63.4	51.0	44.8
62.5°	22678.9	18996.7	4946.7	289.1	218.0	148.4	98.9	75.7	46.4	34.0	30.9
63°	22708.3	18968.9	4758.1	284.4	219.5	148.4	98.9	72.7	44.8	30.9	27.8
65°	22663.5	18618.0	4022.3	269.0	224.1	142.2	94.3	58.7	35.6	21.6	18.5
67.5°	21913.7	17444.7	2981.9	252.0	214.9	140.7	86.6	47.9	27.8	13.9	10.8
70°	20078.8	15623.7	1992.6	224.1	207.1	137.6	102.0	40.2	23.2	7.7	6.2
72.5°	17515.8	13659.0	1334.1	184.0	180.9	112.8	61.8	34.0	17.0	3.1	0.0
75°	14804.4	10992.4	825.5	140.7	146.9	95.8	49.5	29.4	13.9	0.0	0.0
77.5°	11524.2	8120.3	587.4	89.7	103.6	81.9	41.7	24.7	10.8	0.0	0.0
80°	7862.1	5503.2	425.1	49.5	54.1	54.1	34.0	18.5	6.2	0.0	0.0
82.5°	4560.2	3083.9	216.4	24.7	23.2	27.8	15.5	9.3	1.5	0.0	0.0
85°	2224.5	1366.5	37.1	13.9	12.4	12.4	6.2	0.0	0.0	0.0	0.0
87.5°	754.4	354.0	4.6	6.2	4.6	1.5	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)