

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: McGRAW-EDISON

Report Number: 769008_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-3F-FG-XX-HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769008_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSM-XX-350-MP-XX-3F-FG-XX-HS
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE III
DISTRIBUTION
WITH HOUSE-SIDE SHIELD
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 23480.3 lumens
Efficiency: 71.2%
Efficacy: 59.1 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

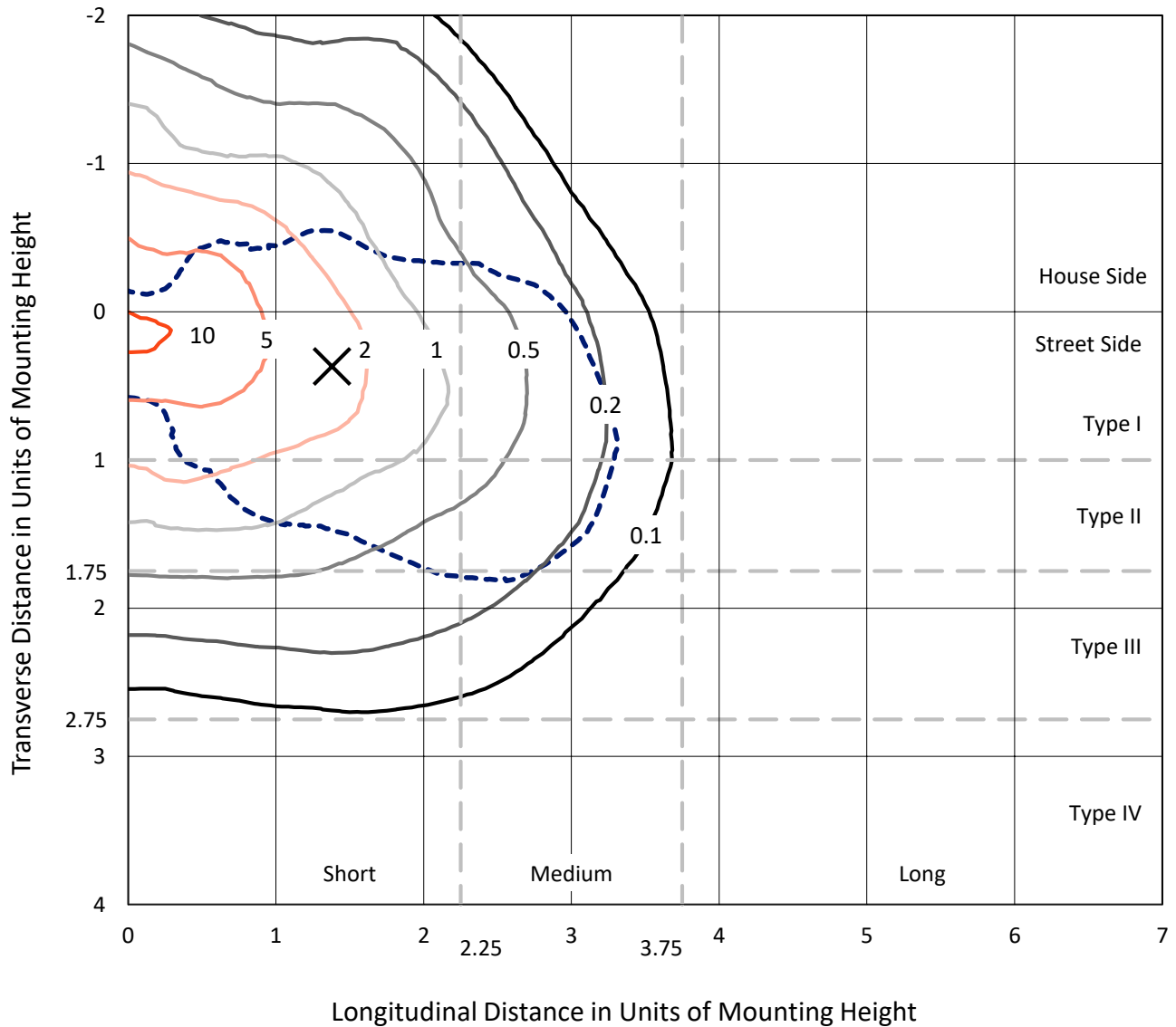
Input Watts (W): 397
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

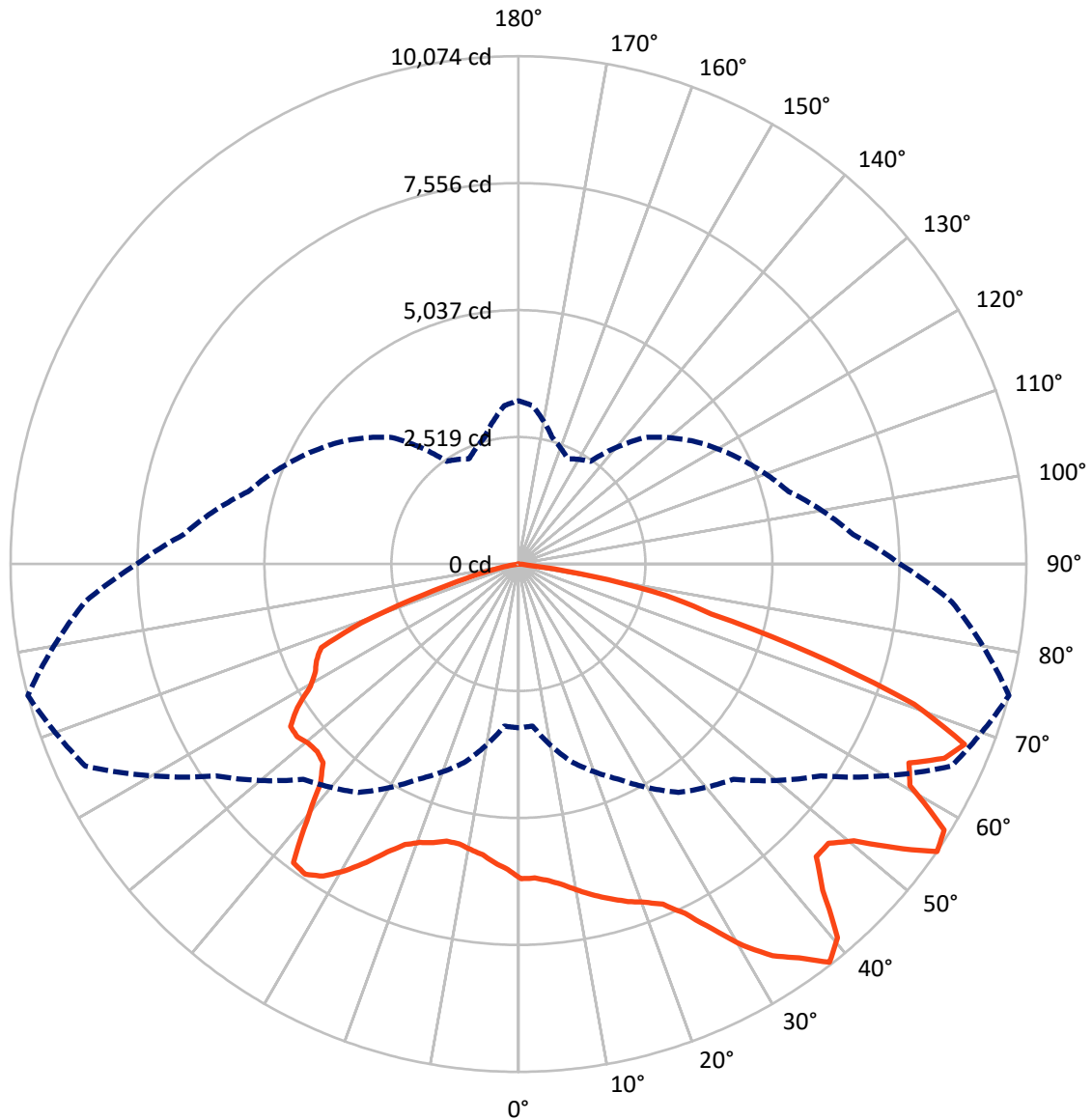
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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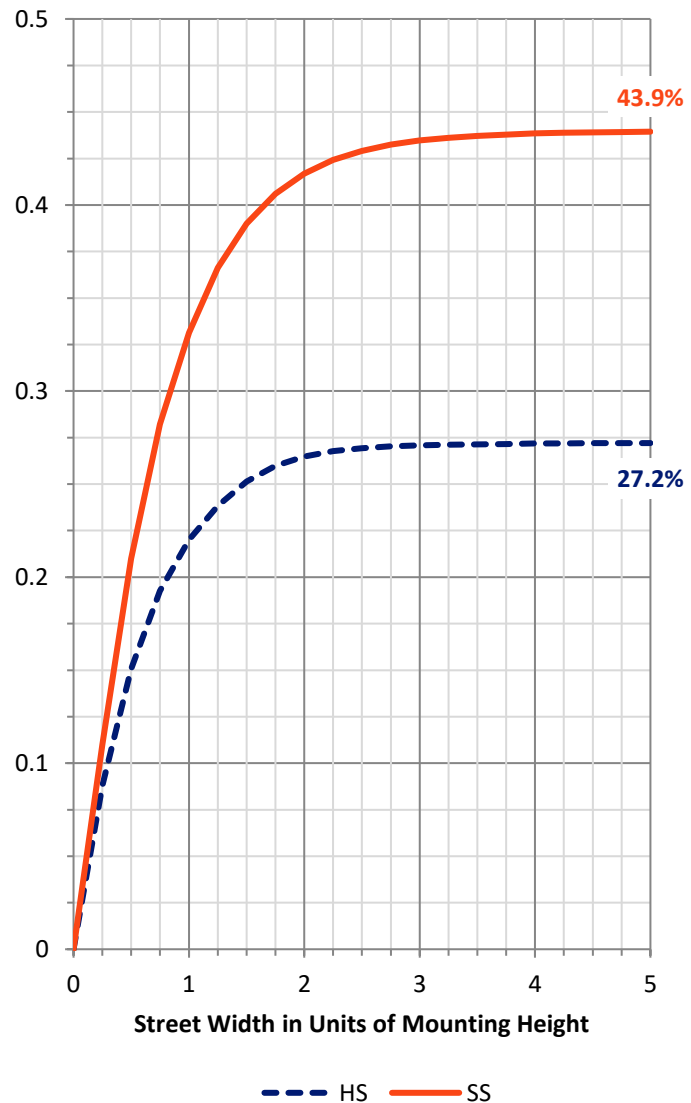
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9017.3	0.0	9017.3
	% Lamp	27.3	0.0	27.3
Street Side	Lumens	14463.0	0.0	14463.0
	% Lamp	43.8	0.0	43.8
Total	Lumens	23480.3	0.0	23480.3
	% Lamp	71.2	0.0	71.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	581.7	2.5	1.8
10°-20°	1696.9	7.2	5.1
20°-30°	2775.2	11.8	8.4
30°-40°	3863.2	16.5	11.7
40°-50°	4095.9	17.4	12.4
50°-60°	4570.4	19.5	13.8
60°-70°	4118.4	17.5	12.5
70°-80°	1712.5	7.3	5.2
80°-90°	66.0	0.3	0.2
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	23480.3	100.0	71.2
0°-180°	23480.3	100.0	71.2



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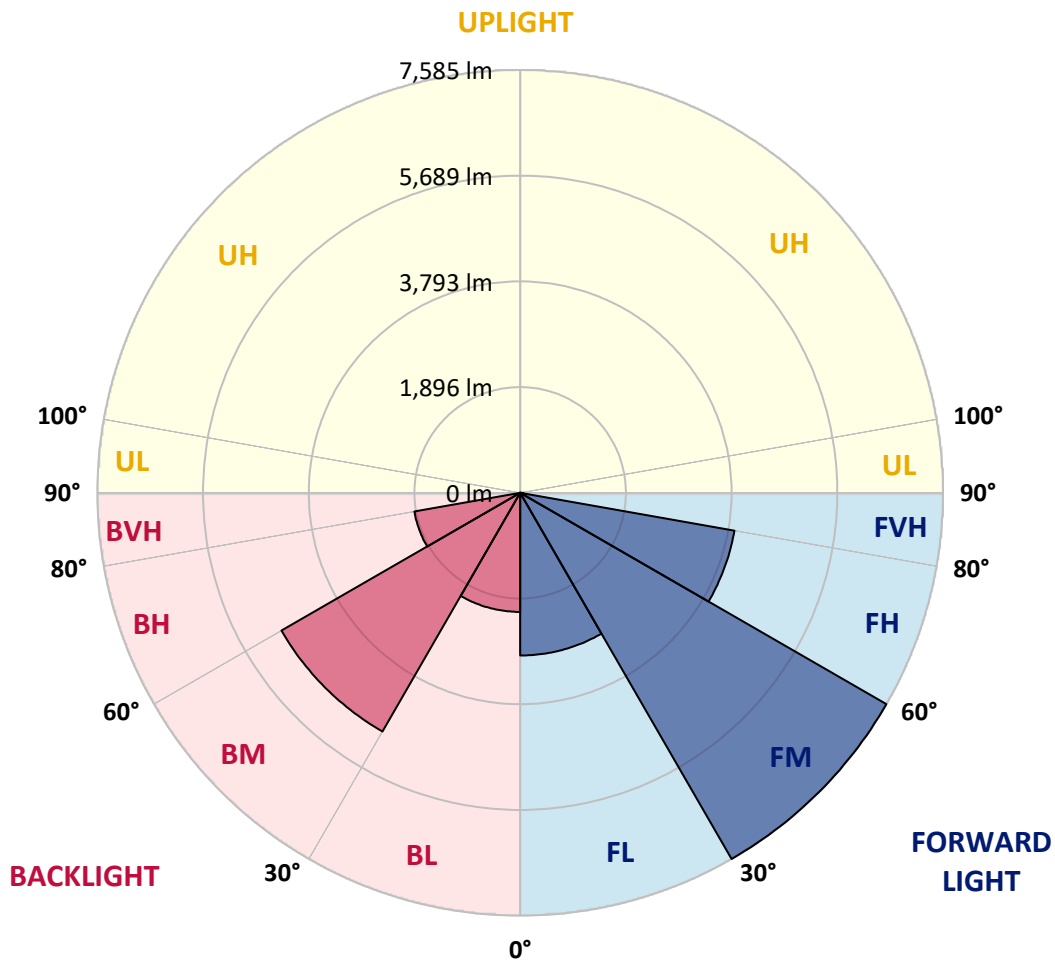
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2917.5	8.8			
FM	(30°-60°)	7585.2	23.0			
FH	(60°-80°)	3903.4	11.8			G2/5000
FVH	(80°-90°)	56.9	0.2			G1/100
BL	(0°-30°)	2136.4	6.5	B3/2500		
BM	(30°-60°)	4944.3	15.0	B3/5000		
BH	(60°-80°)	1927.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	9.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		9519.7	28.8			

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5
2.5°	6545.0	6569.8	6565.2	6499.2	6474.4	6398.3	6337.8	6297.5	6237.0	6171.9	6161.8
5°	6827.3	6852.1	6842.0	6751.2	6676.1	6569.8	6484.5	6408.4	6307.6	6186.6	6126.1
7.5°	6978.6	7008.8	6993.2	6902.5	6857.6	6801.7	6741.2	6625.7	6428.6	6222.3	6116.0
10°	7089.5	7109.7	7109.7	7039.1	7073.9	7059.2	7013.4	6867.7	6589.9	6313.1	6182.0
12.5°	7129.8	7144.5	7174.8	7170.2	7230.7	7245.3	7154.6	6978.6	6746.7	6418.5	6226.9
15°	7039.1	7029.0	7099.6	7190.3	7275.6	7301.2	7230.7	7124.3	6892.4	6534.9	6333.2
17.5°	6857.6	6842.0	6983.2	7104.2	7194.9	7281.1	7305.8	7281.1	7039.1	6690.8	6499.2
20°	6575.2	6549.6	6736.6	6872.2	6993.2	7160.1	7326.0	7371.8	7160.1	6791.6	6589.9
22.5°	6232.4	6192.1	6424.0	6565.2	6776.9	7063.8	7371.8	7513.0	7331.5	6968.5	6746.7
25°	5819.0	5808.9	6000.5	6206.8	6565.2	6998.8	7513.0	7775.2	7678.9	7351.7	7084.0
27.5°	5365.2	5379.9	5601.8	5853.8	6393.8	7073.9	7765.1	8173.9	8194.1	7845.8	7533.2
30°	5002.2	5002.2	5234.2	5566.9	6262.7	7235.2	8097.8	8682.7	8783.5	8365.5	8027.2
32.5°	4649.3	4664.0	4972.0	5385.4	6252.6	7502.9	8426.0	9101.6	9262.9	8799.1	8440.7
35°	4346.8	4356.9	4754.8	5264.4	6333.2	7678.9	8557.1	9303.2	9595.7	9172.2	8773.4
37.5°	4094.8	4129.6	4679.6	5238.8	6383.7	7658.8	8602.0	9555.3	10023.8	9368.3	8930.2
40°	3893.1	3933.4	4689.7	5294.7	6247.1	7477.2	8587.3	9620.4	9746.9	8698.2	8168.4
42.5°	3791.3	3831.7	4750.2	5339.6	5980.3	7109.7	8178.5	9055.8	8849.5	7865.9	7361.8
45°	3751.0	3746.4	4855.6	5254.3	5531.2	6413.9	7426.8	8224.3	8279.3	7452.5	6897.9
47.5°	3690.5	3665.8	4885.8	5113.2	5183.8	5819.0	6827.3	7855.8	8279.3	7402.1	6776.9
50°	3549.3	3539.2	4780.4	5022.4	5153.5	5722.8	6686.2	8087.8	8627.7	7674.3	6952.9
52.5°	3458.6	3383.4	4543.0	4895.9	5355.2	5904.2	6952.9	8708.3	9348.2	8178.5	7250.8
55°	3246.8	3226.7	4059.0	4709.8	5531.2	6035.3	7326.0	9479.2	10074.2	8632.2	7568.0
57.5°	3004.8	3010.3	3559.4	4432.1	5450.5	6030.8	7331.5	9731.3	9958.7	8345.3	7275.6
60°	2722.5	2768.3	3135.9	3993.9	5087.5	5687.9	7008.8	9328.0	8920.1	7568.0	6726.5
62.5°	2349.4	2409.9	2728.0	3484.2	4593.4	5264.4	6504.7	9041.1	8692.8	7467.2	6585.3
65°	1754.5	1774.7	2198.2	2984.7	4185.5	5012.3	6065.6	8803.7	9287.7	7593.7	6640.3
67.5°	1411.7	1407.1	1790.2	2556.6	3811.5	4780.4	5829.1	8097.8	9545.2	7896.2	6932.8
70°	1078.9	1089.0	1452.0	2112.9	3343.1	4462.3	5611.8	7376.4	8329.8	7265.5	6186.6
72.5°	726.0	736.1	1003.8	1618.8	2631.8	3903.2	5012.3	6247.1	6101.3	4790.5	4004.0
75°	484.0	479.4	594.9	998.2	1794.8	2748.2	3347.7	3993.9	3948.1	3025.0	2601.5
77.5°	282.3	292.4	242.0	312.6	584.8	1114.7	1770.1	2772.9	2990.2	2062.5	1683.9
80°	131.1	131.1	100.8	121.0	242.0	550.0	913.0	1528.1	1512.5	927.7	715.9
82.5°	50.4	45.8	30.2	25.7	45.8	86.2	116.4	166.8	181.5	96.2	70.6
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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5
2.5°	6105.9	6061.0	6010.6	5980.3	5964.8	5950.1	5919.8	5914.3	5929.9	5929.9
5°	6055.5	5944.6	5833.7	5742.9	5672.3	5611.8	5541.2	5511.0	5486.2	5486.2
7.5°	6010.6	5808.9	5597.2	5420.2	5279.1	5183.8	5113.2	5052.7	5022.4	5022.4
10°	6025.2	5742.9	5430.3	5183.8	4956.4	4795.1	4734.6	4730.0	4750.2	4760.2
12.5°	6030.8	5672.3	5284.6	4986.7	4740.1	4548.5	4472.4	4573.2	4649.3	4669.5
15°	6126.1	5677.8	5218.6	4871.2	4568.7	4356.9	4280.8	4407.3	4492.6	4508.2
17.5°	6257.2	5778.7	5284.6	4845.5	4508.2	4246.0	4225.8	4316.6	4401.8	4427.5
20°	6343.3	5859.3	5309.3	4865.7	4518.2	4205.7	4155.2	4346.8	4427.5	4457.8
22.5°	6494.6	6000.5	5440.4	4972.0	4609.0	4215.8	4048.9	4331.2	4482.5	4518.2
25°	6797.1	6272.8	5692.5	5238.8	4699.8	4256.1	3968.2	4054.4	4387.2	4417.4
27.5°	7215.1	6640.3	6035.3	5486.2	4744.7	4266.2	3913.2	3786.8	4190.1	4286.3
30°	7654.2	6988.7	6378.2	5708.1	4694.2	4200.2	3817.0	3625.4	3893.1	3973.8
32.5°	8032.8	7301.2	6620.2	5798.8	4583.3	4084.7	3706.1	3488.8	3609.8	3640.1
35°	8315.1	7467.2	6610.1	5732.8	4367.0	3923.3	3585.1	3357.8	3393.5	3408.2
37.5°	8385.7	7416.8	6448.8	5546.8	4180.0	3786.8	3443.9	3206.5	3282.6	3287.2
40°	7583.6	6595.4	5738.3	4891.3	3998.5	3575.0	3226.7	3060.8	3256.9	3267.0
42.5°	6787.0	5863.9	5203.9	4502.7	3851.8	3312.8	2994.8	2873.8	3212.0	3246.8
45°	6337.8	5526.6	5027.0	4422.0	3791.3	3000.2	2672.1	2586.8	3060.8	3196.4
47.5°	6232.4	5456.0	4972.0	4397.2	3786.8	2728.0	2365.0	2349.4	2904.0	3095.6
50°	6327.8	5476.2	4946.3	4397.2	3766.6	2627.2	2284.3	2268.8	2859.1	3004.8
52.5°	6489.1	5566.9	4992.2	4331.2	3655.7	2561.2	2314.6	2450.2	3040.6	3146.0
55°	6670.6	5551.3	4891.3	4246.0	3549.3	2486.0	2304.5	2596.9	3156.1	3236.8
57.5°	6378.2	5228.7	4679.6	4165.3	3468.7	2455.8	2223.8	2506.2	2934.2	3035.1
60°	5843.8	4785.0	4482.5	4135.1	3428.3	2395.2	2097.3	2153.2	2571.2	2873.8
62.5°	5561.4	4558.6	4452.2	4149.8	3418.2	2203.7	1815.0	1709.6	2198.2	2541.0
65°	5385.4	4437.6	4447.7	4079.2	3333.0	1835.2	1407.1	1310.8	1623.4	1855.3
67.5°	5314.8	4250.6	4114.9	3685.9	2994.8	1401.6	993.7	937.8	1034.0	1159.6
70°	4694.2	3333.0	2788.5	2415.4	2153.2	957.9	675.6	615.1	610.5	665.5
72.5°	3080.9	1946.1	1300.8	1104.6	973.5	564.7	429.0	398.8	383.2	403.3
75°	2036.8	1094.5	660.9	529.8	413.4	282.3	247.5	257.6	257.6	272.2
77.5°	1255.8	564.7	318.1	231.9	161.3	106.3	90.8	116.4	116.4	121.0
80°	514.2	217.2	106.3	60.5	35.8	15.6	5.5	15.6	20.2	20.2
82.5°	55.9	20.2	5.5	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
87.5°	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

(END OF REPORT)