

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: P455997

Luminaire Tested: **GALN-SA7B-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33085 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

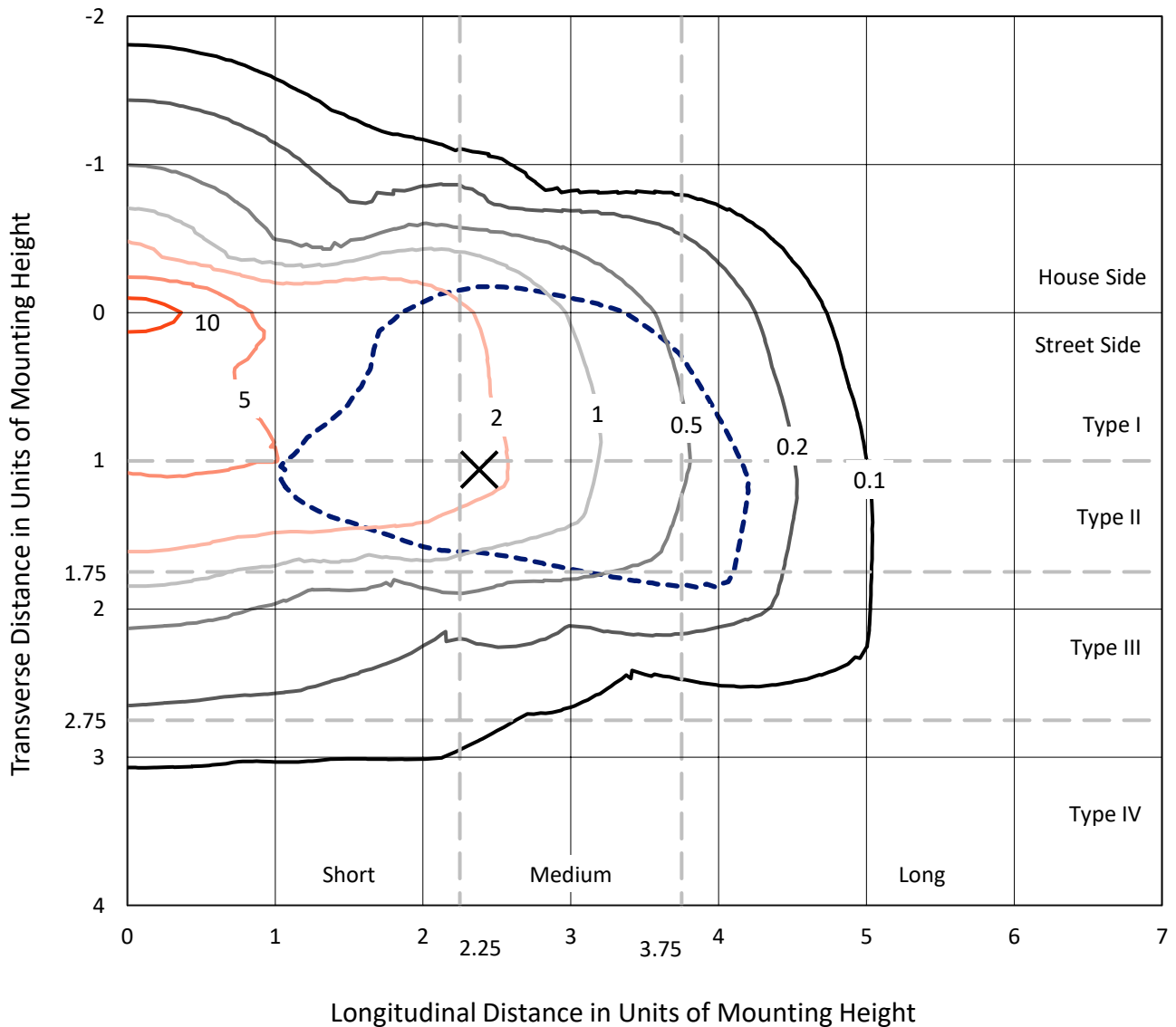
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

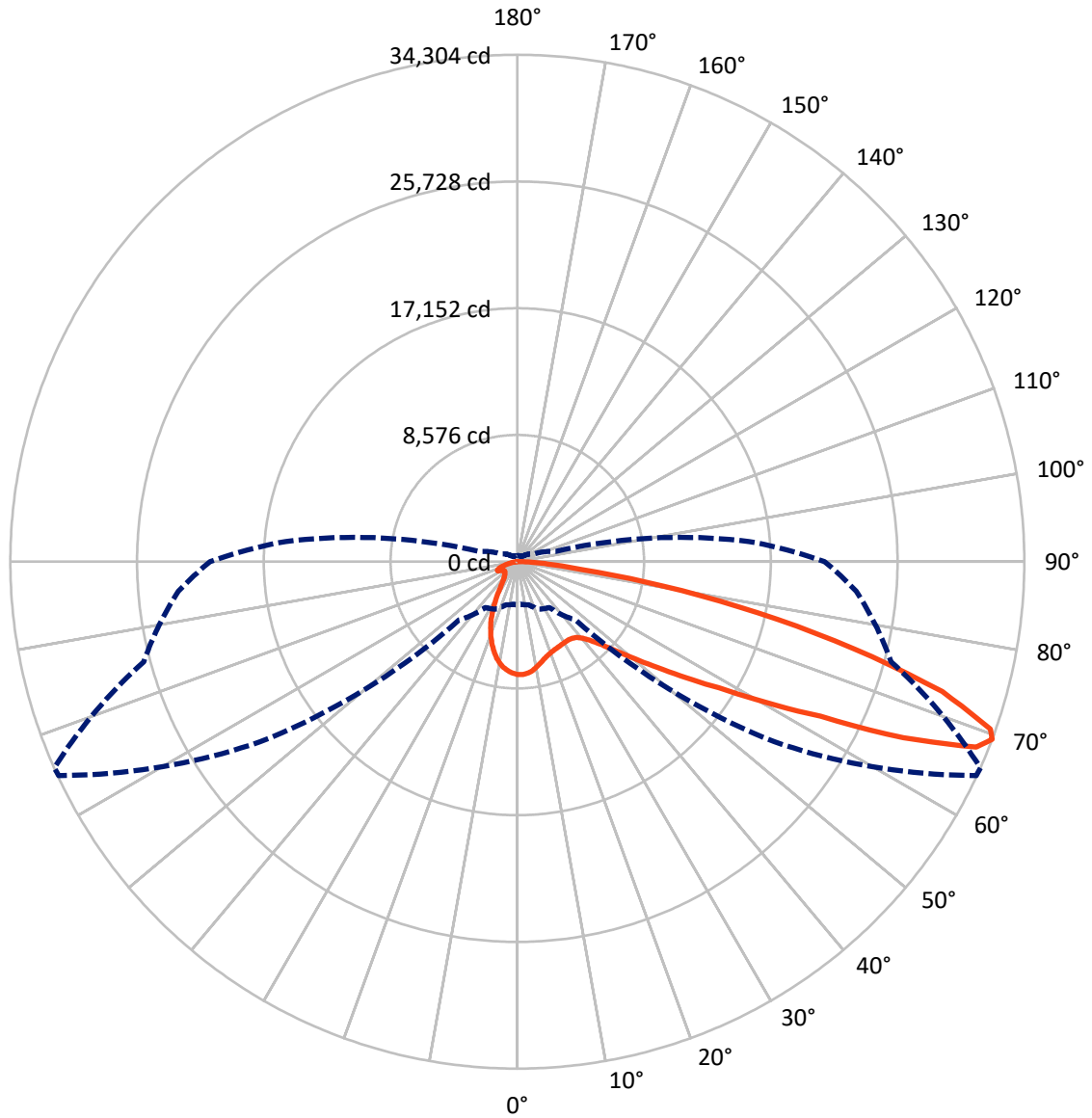
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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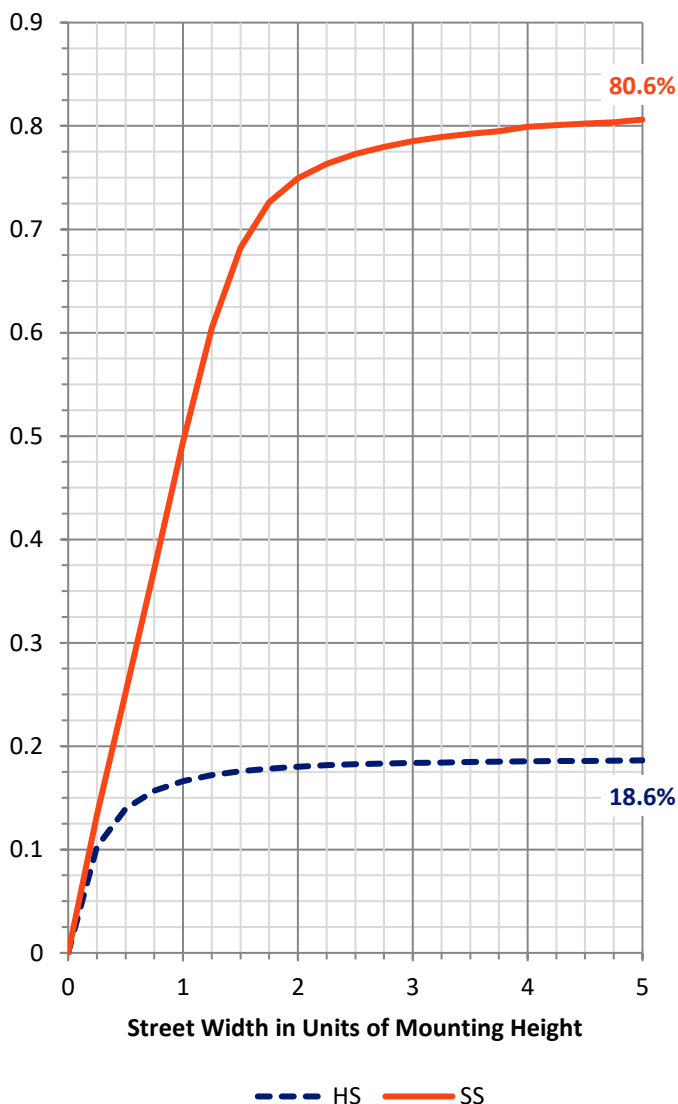
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6222.0	0.0	6222.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26863.0	0.0	26863.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	33085.0	0.0	33085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.5	2.0
10°-20°	1573.7	4.8
20°-30°	2142.4	6.5
30°-40°	2878.9	8.7
40°-50°	4298.7	13.0
50°-60°	6837.8	20.7
60°-70°	8410.1	25.4
70°-80°	5472.0	16.5
80°-90°	808.0	2.4
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°	33085.0	100.0
0°-180°	33085.0	100.0

Coefficient of Utilization



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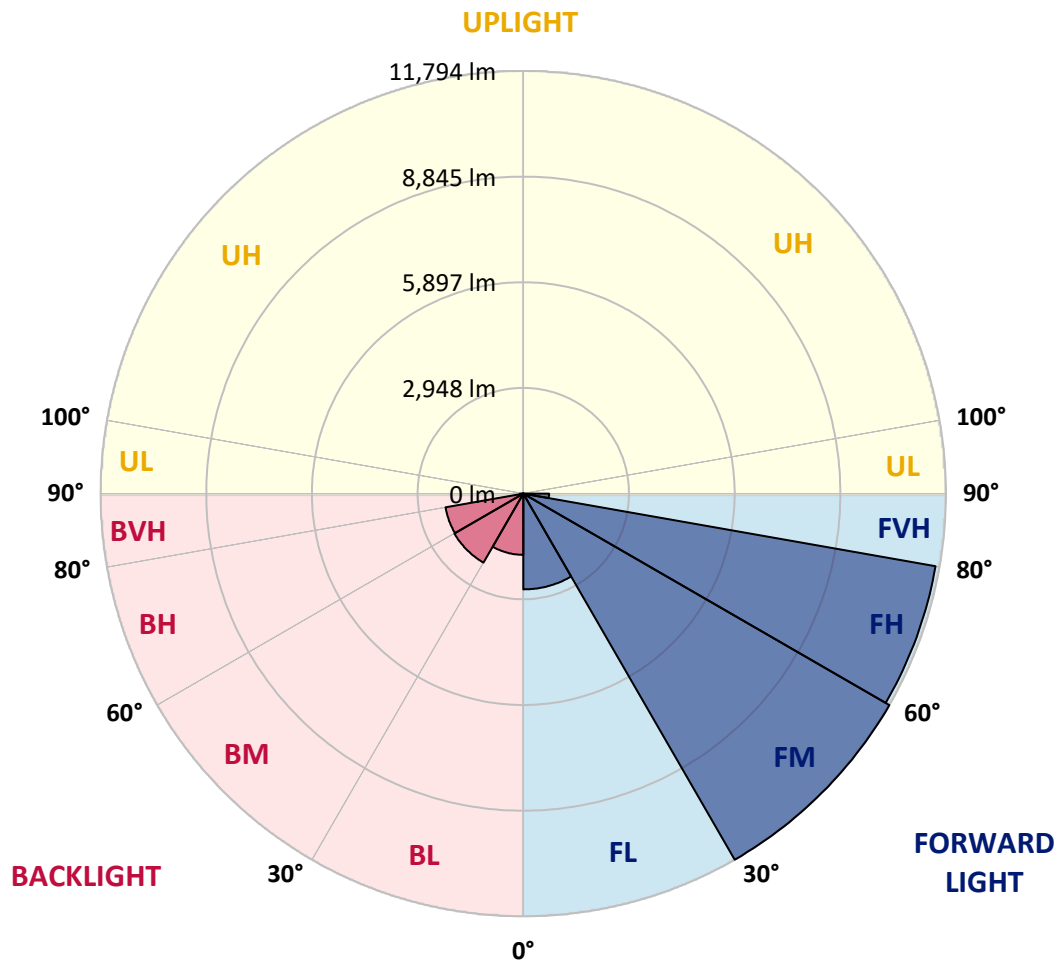
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2671.6	8.1			
FM	(30°-60°)	11793.8	35.6			
FH	(60°-80°)	11679.2	35.3			G4/12000
FVH	(80°-90°)	718.4	2.2			G4/750
BL	(0°-30°)	1708.0	5.2	B3/2500		
BM	(30°-60°)	2221.5	6.7	B2/2500		
BH	(60°-80°)	2202.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	89.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2
2.5°	7372.7	7402.1	7435.0	7471.7	7541.3	7579.8	7607.3	7638.4	7642.1	7658.6	7645.7
5°	6828.6	6863.4	6912.9	6982.5	7086.9	7250.0	7418.6	7556.0	7572.5	7649.4	7671.4
7.5°	6374.2	6394.4	6434.7	6546.4	6694.8	6876.2	7121.7	7400.2	7440.5	7623.8	7687.9
10°	6004.1	6024.3	6071.9	6187.3	6333.9	6561.1	6830.4	7196.9	7229.8	7545.0	7691.5
12.5°	5727.4	5745.8	5797.1	5910.7	6079.2	6291.8	6588.6	6977.0	7024.6	7440.5	7656.7
15°	5516.7	5551.5	5593.7	5687.1	5864.9	6070.1	6357.7	6775.5	6813.9	7330.6	7632.9
17.5°	5427.0	5443.4	5472.8	5558.9	5689.0	5890.5	6180.0	6617.9	6663.7	7253.7	7627.4
20°	5430.6	5447.1	5452.6	5500.2	5593.7	5767.7	6053.6	6493.3	6548.3	7185.9	7636.6
22.5°	5555.2	5557.0	5536.9	5520.4	5557.0	5701.8	5963.8	6399.9	6464.0	7156.5	7643.9
25°	5747.6	5780.6	5751.3	5674.3	5606.5	5676.1	5929.0	6348.5	6409.0	7114.4	7634.7
27.5°	6059.1	6064.6	6040.7	5936.3	5760.4	5709.1	5914.3	6310.1	6361.4	7083.3	7588.9
30°	6476.8	6460.3	6438.3	6322.9	6046.2	5835.5	5945.5	6275.3	6328.4	7037.5	7534.0
32.5°	6900.0	6951.3	6931.2	6795.6	6436.5	6081.0	6046.2	6271.6	6315.6	7002.6	7473.5
35°	7348.9	7372.7	7468.0	7398.4	7030.1	6478.6	6235.0	6328.4	6363.2	7004.5	7431.4
37.5°	7700.7	7764.8	7988.4	8048.8	7702.5	7004.5	6540.9	6489.6	6504.3	7094.3	7447.9
40°	8125.8	8235.7	8523.4	8770.7	8543.5	7687.9	7061.3	6788.3	6806.6	7310.5	7556.0
42.5°	8664.4	8741.4	9128.0	9463.3	9426.6	8591.2	7691.5	7277.5	7286.6	7741.0	7858.3
45°	9294.7	9404.6	9838.9	10342.7	10428.8	9613.5	8602.1	8017.7	8012.2	8409.8	8422.6
47.5°	10100.9	10168.7	10599.2	11148.9	11497.0	10897.9	9707.0	9080.3	9021.7	9384.5	9280.1
50°	10842.9	10949.2	11275.3	11876.3	12742.9	12402.1	11159.9	10458.2	10320.7	10659.7	10483.8
52.5°	11154.4	11266.2	11541.0	12286.7	13811.1	14347.9	13004.9	12101.6	11872.6	12132.8	12068.7
55°	10613.9	10758.6	11015.1	11922.1	14280.1	16592.3	15493.0	14001.6	13834.9	13723.1	13741.4
57.5°	9161.0	9298.4	9644.7	10645.0	13719.5	18221.2	19045.6	16443.9	16086.7	15571.8	15659.8
60°	6973.3	7059.4	7239.0	8347.5	12057.7	18644.4	23080.1	19531.2	19304.0	17413.2	17475.5
62.5°	4952.4	5049.5	5174.1	5727.4	8827.5	17451.6	26238.8	23842.3	23030.7	19320.5	19260.0
65°	4021.7	3955.7	4105.9	4364.3	5179.6	13525.3	26949.7	29826.3	28708.6	21832.4	20993.3
67.5°	3307.1	3237.5	3385.9	3845.8	3939.2	7850.9	24388.3	33710.5	33487.0	24564.2	22754.0
69°	2927.8	2891.2	3021.3	3545.3	3781.6	5575.4	21246.1	34251.0	34304.2	26174.7	23025.2
70°	2638.4	2653.0	2779.4	3393.2	3710.2	4597.0	18158.9	33505.3	33956.0	26979.0	22732.0
72.5°	1942.1	1973.3	2149.2	2810.6	3642.4	3900.7	10806.3	29265.6	30062.6	27026.7	20795.4
75°	1357.7	1343.0	1498.7	2116.2	3440.9	3865.9	6346.7	22633.1	23536.4	23360.5	17473.6
77.5°	888.6	912.4	1037.0	1495.1	2894.9	3836.6	4137.1	16057.3	16643.6	15623.1	10335.4
80°	626.6	624.8	694.4	1020.5	2147.3	3686.4	3387.7	10121.0	9972.6	6139.7	3065.3
82.5°	359.1	384.8	465.4	718.2	1436.4	3244.8	3116.6	4840.7	4419.3	1749.7	1035.2
85°	199.7	208.9	276.7	434.2	839.1	2444.1	2720.8	2202.3	2077.7	731.0	445.2
87.5°	64.1	69.6	115.4	219.9	381.1	1154.3	1540.9	1016.9	938.1	263.8	179.6
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°	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2	7640.2
2.5°	7651.2	7673.2	7614.6	7557.8	7506.5	7435.0	7370.9	7317.8	7281.1	7275.6	7257.3
5°	7676.9	7678.7	7567.0	7416.7	7270.1	7108.9	6942.2	6823.1	6711.3	6649.0	6617.9
7.5°	7695.2	7678.7	7477.2	7233.5	6951.3	6658.2	6365.0	6130.5	5949.1	5877.7	5905.2
10°	7687.9	7636.6	7341.6	6951.3	6540.9	6103.0	5681.6	5351.8	5049.5	4893.8	4897.5
12.5°	7647.6	7563.3	7140.1	6634.4	6031.6	5445.3	4800.3	4355.1	4005.2	3798.1	3734.0
15°	7612.8	7466.2	6903.7	6203.8	5454.4	4617.1	3831.1	3281.5	2988.3	2825.2	2823.4
17.5°	7576.1	7372.7	6645.4	5747.6	4791.2	3713.9	2889.4	2469.8	2332.4	2348.9	2321.4
20°	7537.6	7262.8	6376.0	5240.1	3983.2	2770.3	2163.8	1993.4	2031.9	2107.0	2118.0
22.5°	7493.7	7145.6	6086.5	4681.3	3133.1	2085.0	1755.2	1729.6	1828.5	1945.8	1962.3
25°	7425.9	6999.0	5721.9	4096.8	2416.7	1680.1	1537.2	1555.5	1652.6	1751.6	1762.6
27.5°	7330.6	6817.6	5353.7	3367.6	1815.7	1441.9	1405.3	1429.1	1476.7	1537.2	1551.9
30°	7202.4	6612.4	4930.4	2737.3	1454.8	1322.8	1308.2	1321.0	1348.5	1374.1	1381.5
32.5°	7074.1	6414.5	4503.5	2096.0	1297.2	1244.1	1229.4	1229.4	1229.4	1233.1	1234.9
35°	6955.0	6227.6	4045.5	1632.5	1214.7	1181.8	1161.6	1139.6	1136.0	1123.1	1123.1
37.5°	6889.0	6057.2	3558.1	1366.8	1154.3	1130.5	1103.0	1066.3	1046.2	1048.0	1044.4
40°	6901.9	5945.5	3114.7	1216.6	1104.8	1079.2	1037.0	994.9	982.1	982.1	978.4
42.5°	7046.6	5908.8	2689.7	1137.8	1057.2	1027.9	974.7	936.3	928.9	927.1	930.8
45°	7380.1	5998.6	2308.6	1086.5	1016.9	972.9	919.8	884.9	877.6	877.6	875.8
47.5°	8030.5	6289.9	2035.6	1053.5	987.6	930.8	875.8	841.0	828.2	824.5	824.5
50°	9041.9	6922.0	1832.2	1024.2	950.9	892.3	835.5	795.2	775.0	773.2	771.4
52.5°	10447.2	7907.7	1753.4	1002.2	910.6	852.0	789.7	751.2	725.5	720.1	716.4
55°	12090.6	9283.7	1861.5	985.7	868.5	806.2	742.0	701.7	677.9	666.9	665.1
57.5°	13994.3	10936.4	2271.9	963.7	830.0	756.7	694.4	654.1	628.4	615.6	612.0
60°	15703.7	12634.8	2988.3	950.9	797.0	703.6	639.4	602.8	579.0	566.1	564.3
62.5°	17581.7	14254.5	3843.9	985.7	782.3	652.3	588.1	555.2	535.0	522.2	522.2
65°	19588.0	15876.0	4410.1	1103.0	804.3	612.0	533.2	505.7	487.4	478.2	476.4
67.5°	20940.1	16436.6	3633.2	1223.9	859.3	568.0	480.0	458.0	447.1	437.9	437.9
69°	20793.6	15727.5	2680.5	1255.1	875.8	546.0	450.7	434.2	419.6	415.9	412.2
70°	20330.0	14919.5	2246.3	1234.9	863.0	525.8	432.4	412.2	399.4	395.8	393.9
72.5°	18107.6	12938.9	1672.8	1073.7	734.7	456.2	382.9	364.6	353.6	348.1	348.1
75°	15044.1	10575.4	1306.4	853.8	575.3	384.8	328.0	313.3	304.1	300.5	298.6
77.5°	8431.8	5905.2	938.1	668.8	436.1	311.5	274.8	262.0	252.8	249.2	249.2
80°	2348.9	1687.4	551.5	441.6	296.8	236.4	218.0	208.9	196.0	186.9	192.4
82.5°	884.9	731.0	315.1	265.7	188.7	157.6	152.1	144.7	139.2	126.4	126.4
85°	430.6	355.4	201.5	141.1	104.4	82.4	78.8	75.1	71.5	62.3	64.1
87.5°	148.4	157.6	87.9	51.3	31.1	20.2	16.5	9.2	9.2	9.2	9.2
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)