

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: P528570

Luminaire Tested: **GALN-SA3C-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14135 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

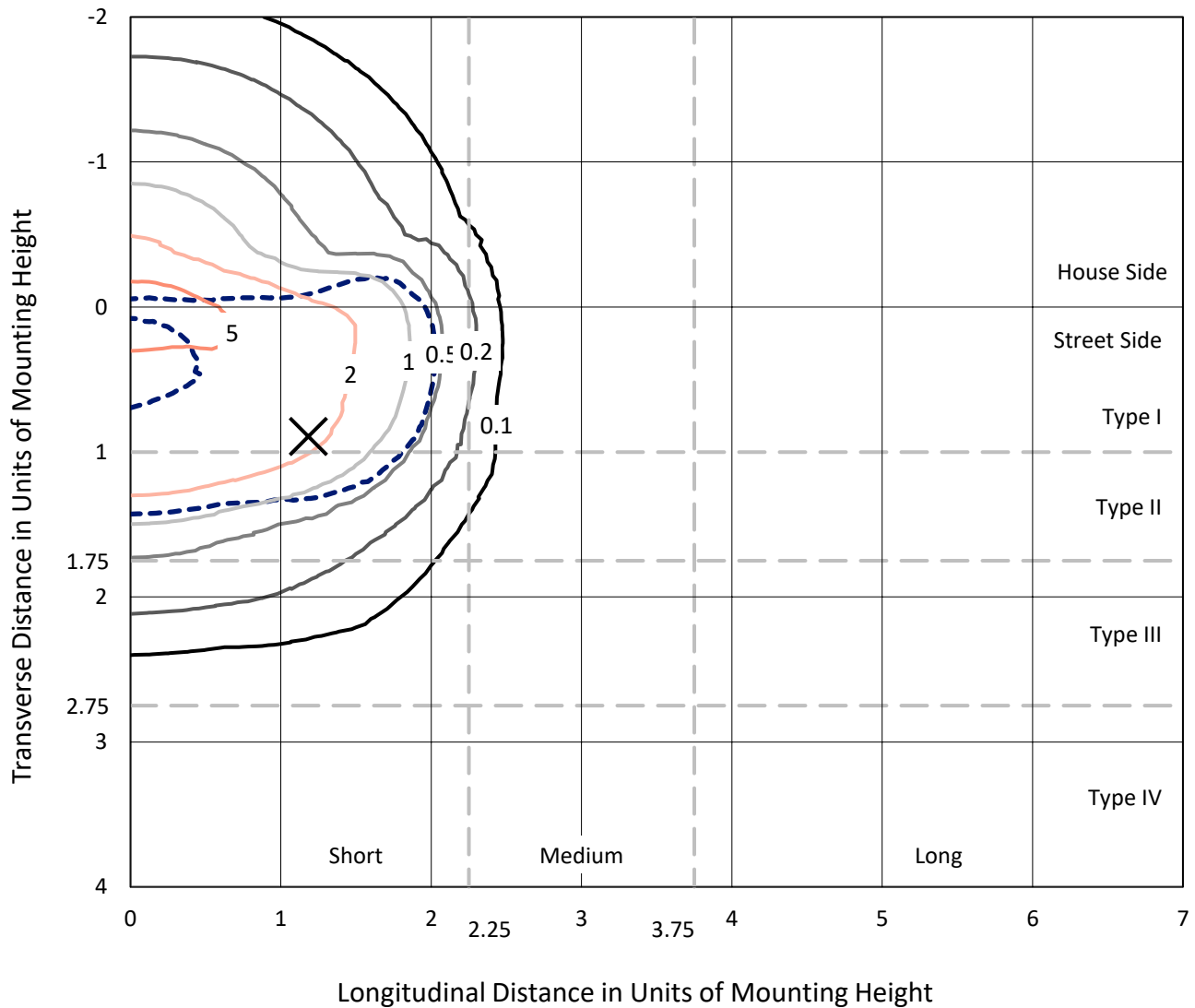
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

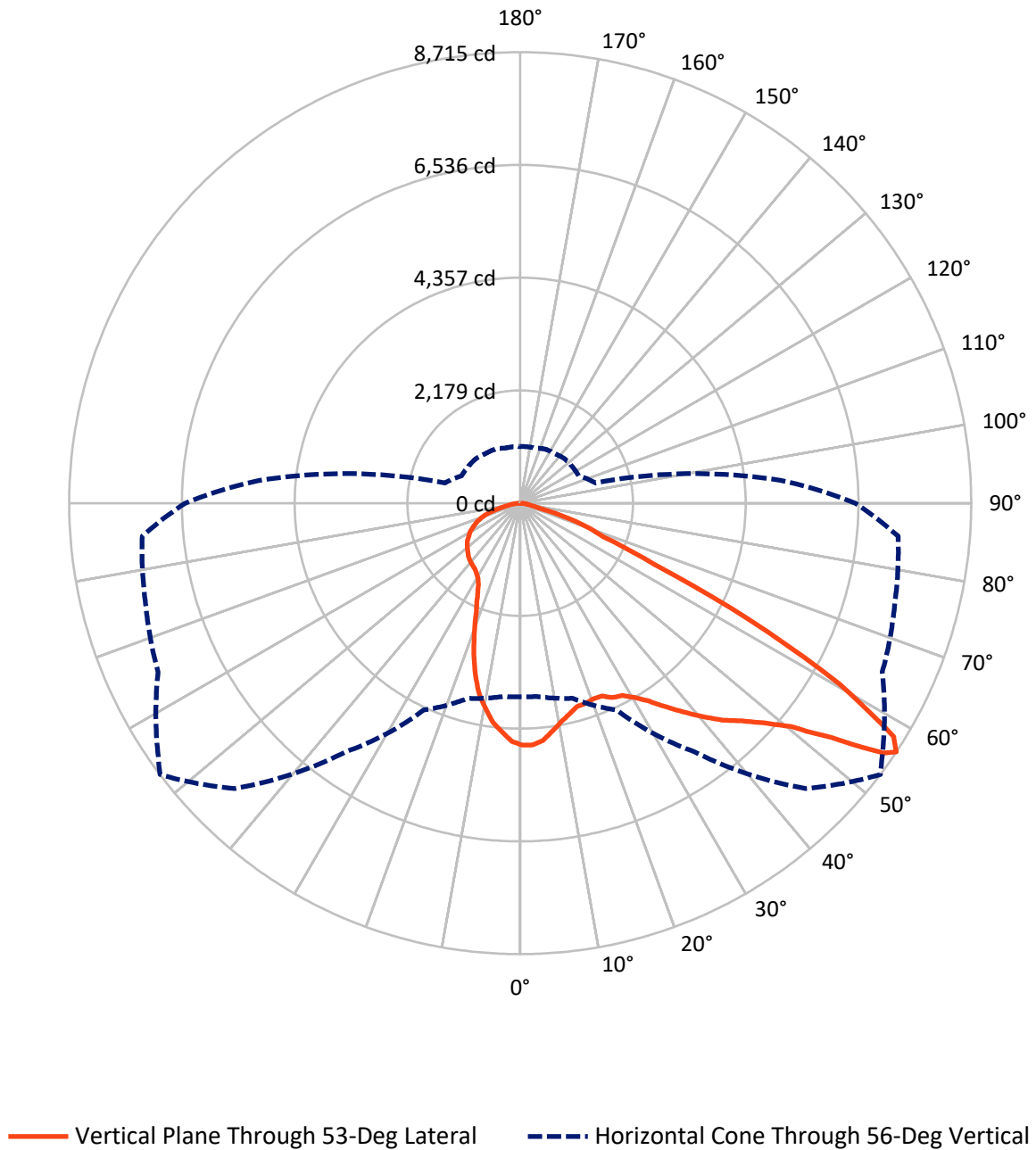


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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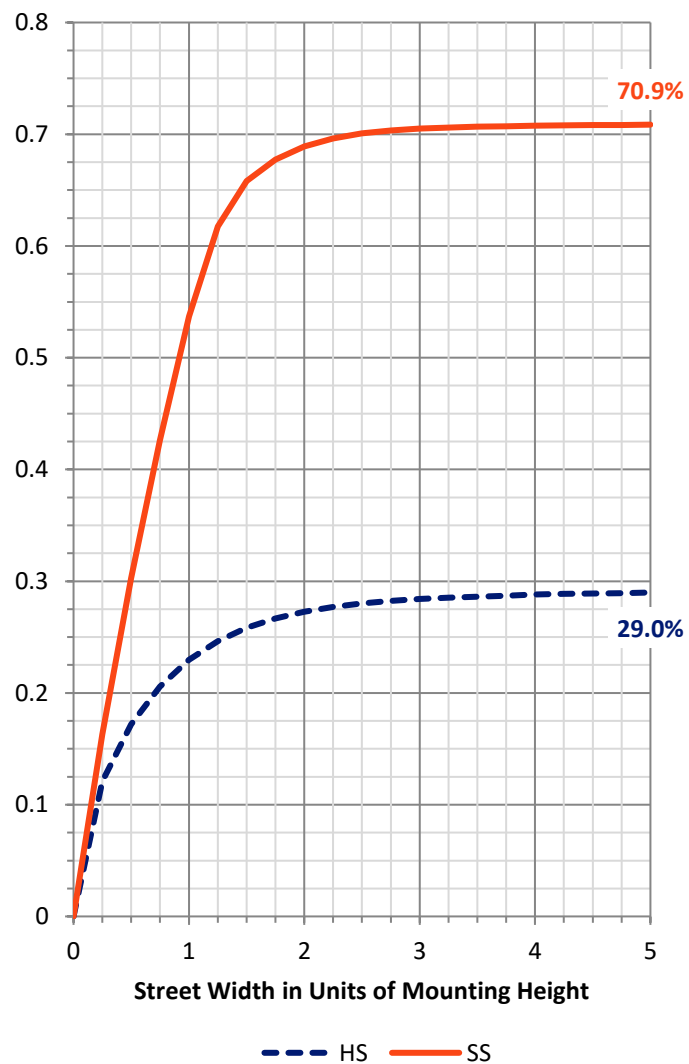
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4124.9	0.0	4124.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10010.1	0.0	10010.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	14135.0	0.0	14135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.0	2.9
10°-20°	1034.0	7.3
20°-30°	1524.7	10.8
30°-40°	2178.5	15.4
40°-50°	2998.4	21.2
50°-60°	3543.3	25.1
60°-70°	1888.3	13.4
70°-80°	479.1	3.4
80°-90°	74.7	0.5
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°	14135.0	100.0
0°-180°	14135.0	100.0

Coefficient of Utilization



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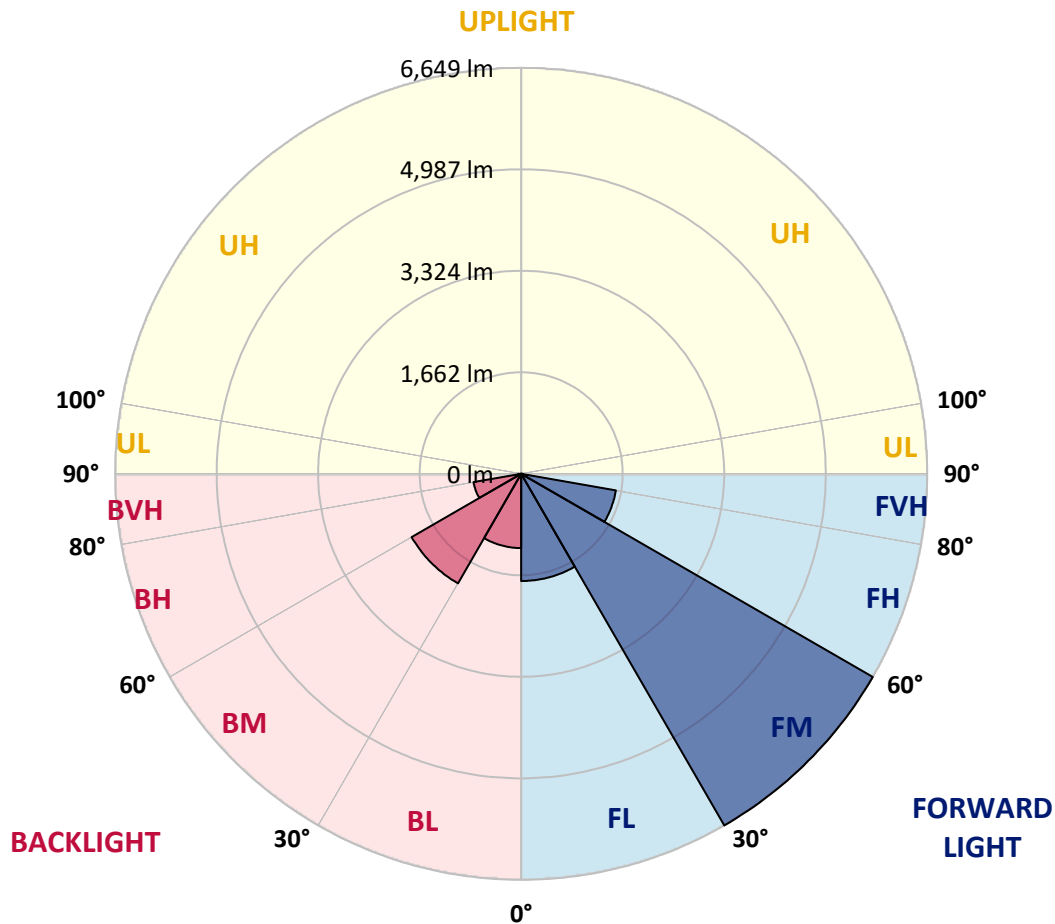
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1756.1	12.4			
FM	(30°-60°)	6648.8	47.0			
FH	(60°-80°)	1575.2	11.1			G1/1800
FVH	(80°-90°)	30.0	0.2			G1/100
BL	(0°-30°)	1216.6	8.6	B3/2500		
BM	(30°-60°)	2071.4	14.7	B2/2500		
BH	(60°-80°)	792.2	5.6	B2/1000		G2/1000
BVH	(80°-90°)	44.7	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4
2.5°	4618.4	4578.5	4602.1	4593.0	4667.3	4689.1	4678.2	4687.3	4729.0	4709.1	4667.3
5°	4315.6	4371.8	4382.7	4409.9	4453.4	4538.6	4605.7	4623.8	4643.8	4736.3	4727.2
7.5°	4040.0	4078.0	4058.1	4137.9	4232.2	4370.0	4451.6	4466.1	4649.2	4700.0	4738.1
10°	3865.9	3827.8	3918.5	3940.2	4047.2	4205.0	4302.9	4362.7	4529.5	4730.8	4754.4
12.5°	3704.5	3691.8	3746.2	3807.9	3927.5	4090.7	4190.5	4214.0	4471.5	4683.7	4794.3
15°	3584.8	3570.3	3624.7	3670.1	3809.7	3954.7	4081.7	4148.8	4408.1	4656.5	4759.8
17.5°	3490.5	3488.7	3519.6	3601.1	3744.4	3865.9	4070.8	4074.4	4375.4	4698.2	4788.8
20°	3485.1	3483.3	3488.7	3579.4	3709.9	3858.6	4036.3	4069.0	4375.4	4669.2	4790.7
22.5°	3530.4	3501.4	3534.1	3592.1	3686.4	3871.3	4049.0	4121.6	4480.6	4812.4	4872.2
25°	3603.0	3610.2	3628.3	3648.3	3702.7	3900.3	4161.4	4221.3	4603.9	4935.7	4984.7
27.5°	3735.3	3731.7	3739.0	3749.8	3797.0	3927.5	4206.8	4360.9	4861.4	5155.1	5106.2
30°	3929.3	3916.7	3945.7	3983.7	3940.2	4014.6	4357.3	4473.3	5100.7	5376.3	5242.2
32.5°	4105.2	4152.4	4206.8	4223.1	4170.5	4185.0	4556.7	4674.6	5300.2	5648.3	5409.0
35°	4324.6	4362.7	4435.3	4486.0	4477.0	4433.4	4828.7	4984.7	5588.5	5847.8	5584.9
37.5°	4538.6	4583.9	4703.6	4854.1	4770.7	4750.8	5118.9	5247.6	5677.3	5954.8	5713.6
40°	4883.1	4881.3	5088.0	5166.0	5240.3	5205.9	5419.9	5463.4	5724.5	5931.2	5717.2
42.5°	5287.5	5262.1	5472.4	5593.9	5690.0	5693.7	5733.5	5719.0	5746.2	5811.5	5679.2
45°	5671.9	5726.3	5938.4	6156.0	6252.1	6263.0	5998.3	5971.1	5784.3	5777.1	5606.6
47.5°	6141.5	6154.2	6328.3	6614.8	6837.8	6761.7	6341.0	6281.2	5951.1	6007.4	5728.1
50°	6168.7	6263.0	6419.0	6756.2	7441.6	7421.7	6785.2	6672.8	6219.5	6333.7	6067.2
52.5°	5599.4	5577.6	5762.6	6313.8	7396.3	8078.1	7521.4	7253.1	6796.1	6709.1	6616.6
55°	4266.6	4317.4	4480.6	5037.3	6422.6	8087.2	8524.2	8304.8	7412.6	7263.9	7157.0
56°	3742.6	3749.8	3904.0	4411.7	5860.5	7798.9	8714.6	8536.9	7719.1	7492.4	7329.2
57.5°	3102.5	3060.8	3140.6	3418.0	4946.6	7189.6	8506.0	8680.1	8078.1	7739.0	7512.4
60°	2442.5	2433.4	2400.8	2451.5	3126.1	5416.2	7080.8	7472.5	8041.8	7506.9	7195.0
62.5°	1994.6	1949.3	2014.5	2087.1	2172.3	3360.0	4975.6	5205.9	6384.5	5992.8	5405.3
65°	1546.7	1525.0	1606.6	1842.3	1893.1	2134.2	2834.1	3011.8	3769.8	3702.7	3260.3
67.5°	1064.4	1068.0	1138.7	1497.8	1755.2	1733.5	1735.3	1827.8	1967.4	1461.5	1272.9
70°	674.5	672.7	710.8	964.7	1412.5	1427.0	1354.5	1327.3	1258.4	761.6	806.9
72.5°	433.4	420.7	440.6	533.1	730.7	845.0	870.4	886.7	728.9	598.4	649.1
75°	244.8	232.1	224.8	248.4	288.3	333.6	366.3	377.2	422.5	453.3	480.5
77.5°	74.3	67.1	81.6	108.8	143.2	192.2	233.9	241.2	284.7	320.9	348.1
80°	32.6	36.3	50.8	72.5	101.5	136.0	165.0	175.9	204.9	232.1	239.4
82.5°	19.9	21.8	34.5	49.0	70.7	96.1	117.9	121.5	150.5	172.3	177.7
85°	7.3	9.1	18.1	29.0	45.3	61.7	61.7	67.1	61.7	61.7	67.1
87.5°	0.0	0.0	1.8	3.6	3.6	5.4	7.3	7.3	9.1	10.9	12.7
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°	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4
2.5°	4689.1	4680.0	4665.5	4613.0	4607.5	4591.2	4500.5	4486.0	4500.5	4457.0	4460.6
5°	4680.0	4707.2	4598.4	4545.9	4447.9	4377.2	4295.6	4253.9	4179.6	4132.4	4185.0
7.5°	4719.9	4709.1	4573.1	4458.8	4311.9	4132.4	3989.2	3907.6	3777.0	3740.8	3768.0
10°	4705.4	4647.4	4487.8	4337.3	4059.9	3902.2	3670.1	3445.2	3321.9	3258.4	3249.4
12.5°	4685.5	4669.2	4402.6	4143.3	3851.4	3519.6	3193.2	2981.0	2779.7	2692.7	2705.4
15°	4709.1	4571.2	4243.0	3914.8	3526.8	3091.6	2739.8	2466.0	2326.4	2270.2	2270.2
17.5°	4698.2	4524.1	4166.9	3659.2	3167.8	2652.8	2266.6	2101.6	2043.6	2043.6	2059.9
20°	4703.6	4554.9	4012.8	3403.5	2743.5	2233.9	1952.9	1893.1	1918.4	1927.5	1936.6
22.5°	4734.4	4453.4	3862.3	3122.4	2350.0	1911.2	1773.4	1775.2	1820.5	1869.5	1860.4
25°	4772.5	4413.5	3679.1	2843.2	2049.0	1753.4	1709.9	1704.5	1738.9	1764.3	1767.9
27.5°	4739.9	4344.6	3492.4	2495.1	1802.4	1648.3	1639.2	1642.8	1653.7	1704.5	1688.2
30°	4846.9	4364.5	3258.4	2203.1	1666.4	1613.8	1602.9	1597.5	1613.8	1628.3	1615.6
32.5°	4979.2	4293.8	3084.4	1922.1	1599.3	1588.4	1566.7	1559.4	1568.5	1554.0	1561.2
35°	5037.3	4281.1	2857.7	1720.8	1546.7	1537.7	1525.0	1523.1	1525.0	1512.3	1501.4
37.5°	5069.9	4341.0	2598.4	1628.3	1514.1	1523.1	1494.1	1490.5	1457.9	1465.1	1470.6
40°	5126.1	4248.5	2388.1	1539.5	1494.1	1476.0	1450.6	1445.2	1423.4	1410.7	1423.4
42.5°	5044.5	4221.3	2181.4	1501.4	1465.1	1445.2	1427.0	1396.2	1389.0	1378.1	1370.8
45°	4979.2	4065.3	1996.4	1454.2	1430.7	1419.8	1385.3	1352.7	1325.5	1336.4	1320.1
47.5°	5028.2	4010.9	1813.3	1414.3	1383.5	1370.8	1336.4	1311.0	1283.8	1271.1	1267.5
50°	5224.0	4112.5	1659.1	1385.3	1343.6	1336.4	1291.0	1262.0	1236.6	1227.6	1231.2
52.5°	5691.8	4389.9	1554.0	1325.5	1305.6	1272.9	1247.5	1211.3	1194.9	1165.9	1184.1
55°	6284.8	4841.4	1526.8	1269.3	1258.4	1229.4	1194.9	1167.7	1136.9	1113.3	1107.9
56°	6475.2	5057.2	1505.0	1247.5	1229.4	1213.1	1167.7	1151.4	1102.5	1097.0	1093.4
57.5°	6629.3	5247.6	1508.6	1205.8	1187.7	1173.2	1146.0	1106.1	1073.5	1053.5	1062.6
60°	6281.2	4912.1	1439.7	1142.4	1138.7	1111.5	1073.5	1055.3	1015.4	991.9	986.4
62.5°	4669.2	3334.6	1167.7	1060.8	1058.9	1029.9	986.4	966.5	959.2	926.6	926.6
65°	2689.1	2090.7	1010.0	993.7	979.2	950.2	906.6	890.3	872.2	861.3	852.2
67.5°	1147.8	1084.3	917.5	915.7	899.4	863.1	819.6	794.2	770.6	748.9	759.8
70°	832.3	845.0	828.7	819.6	799.7	754.3	716.2	685.4	649.1	634.6	645.5
72.5°	660.0	687.2	710.8	712.6	689.0	636.5	594.8	553.0	513.2	493.2	502.3
75°	500.5	518.6	542.2	547.6	513.2	476.9	437.0	393.5	362.7	339.1	342.7
77.5°	360.8	357.2	379.0	375.3	359.0	333.6	297.4	257.5	223.0	201.3	203.1
80°	246.6	252.0	264.7	262.9	243.0	226.7	199.5	166.8	141.4	123.3	119.7
82.5°	172.3	181.3	192.2	183.1	166.8	150.5	130.6	107.0	87.0	72.5	68.9
85°	61.7	70.7	81.6	87.0	92.5	88.9	74.3	59.8	43.5	36.3	34.5
87.5°	12.7	14.5	16.3	16.3	16.3	14.5	12.7	12.7	10.9	5.4	5.4
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)