

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: P193484

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-AFL-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26088 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 382  
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: 25 FT

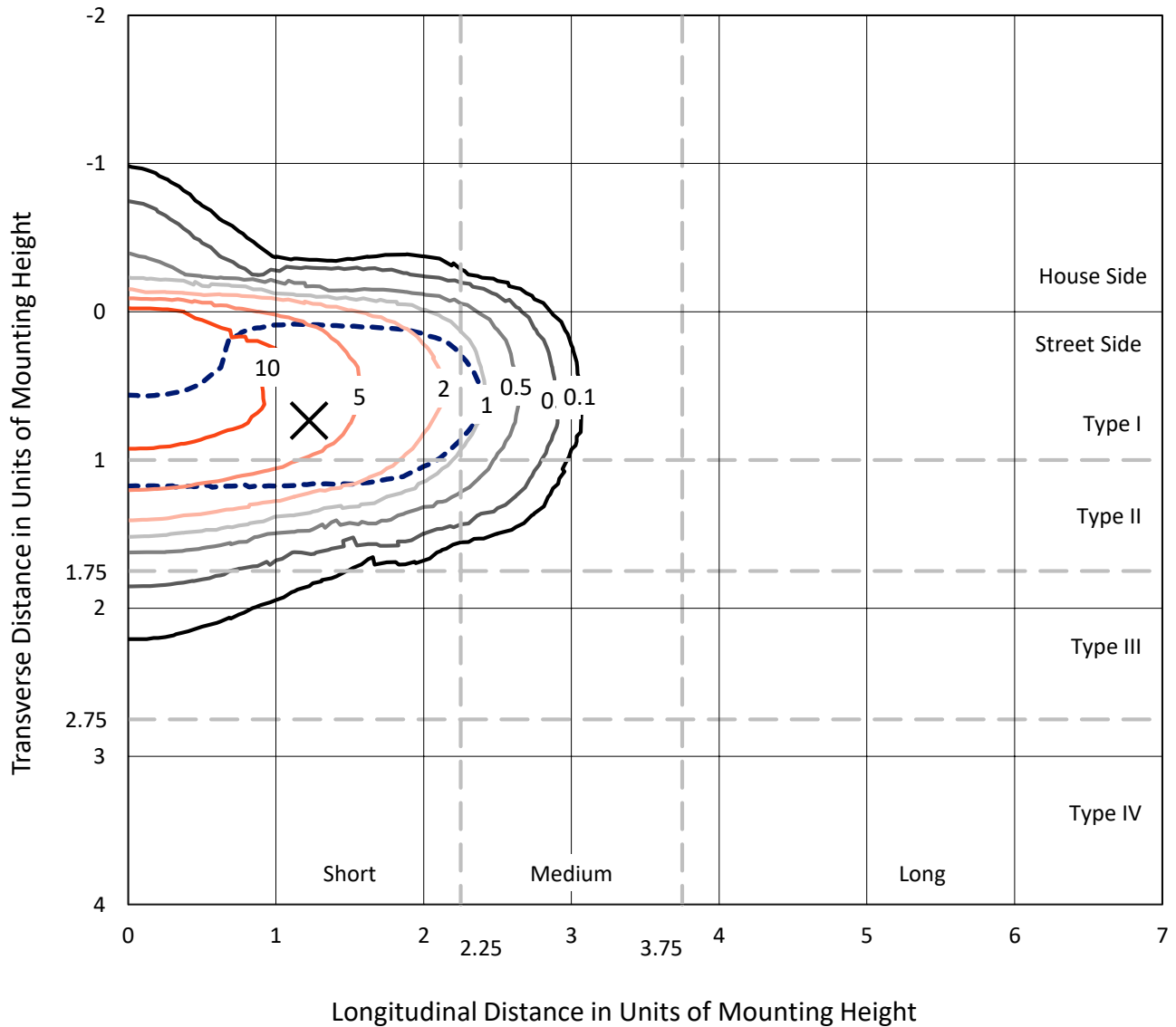


REPORT NUMBER: P193484

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-8030-1200-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

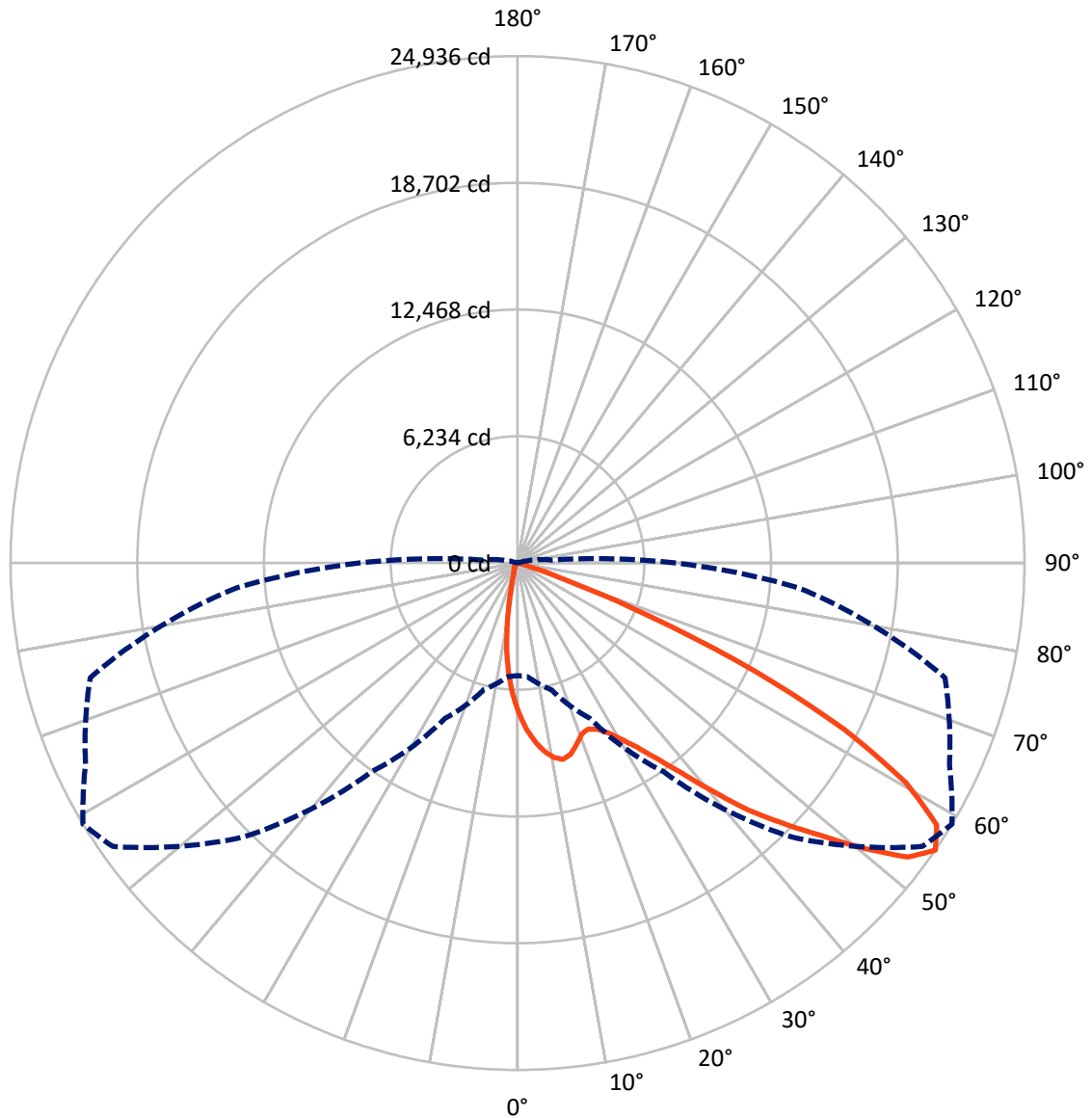


Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P193484

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-8030-1200-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P193484

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-8030-1200-HSS

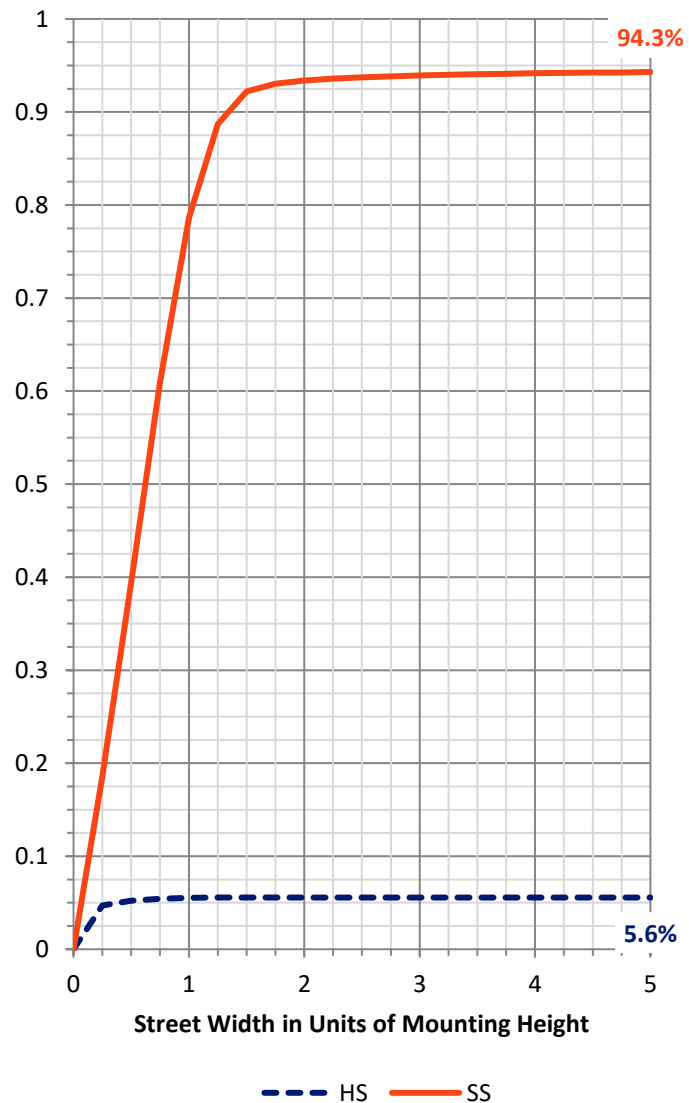
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1457.2	0.0	1457.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	24630.8	0.0	24630.8
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	26088.0	0.0	26088.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.1	2.4
10°-20°	1472.7	5.6
20°-30°	2506.1	9.6
30°-40°	4309.9	16.5
40°-50°	6654.0	25.5
50°-60°	6689.3	25.6
60°-70°	3430.3	13.1
70°-80°	371.8	1.4
80°-90°	38.9	0.1
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°	26088.0	100.0
0°-180°	26088.0	100.0



REPORT NUMBER: P193484

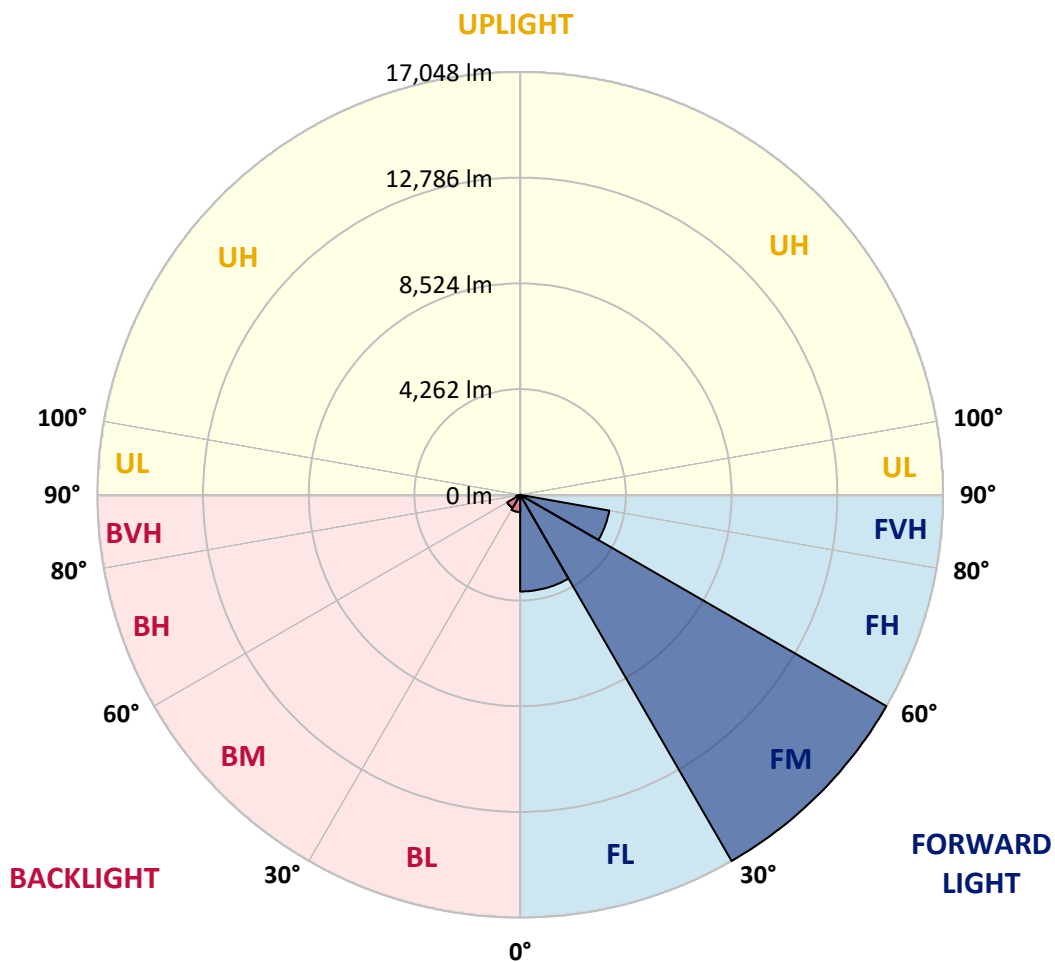
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3898.4	14.9			
FM (30°-60°)	17048.4	65.3			
FH (60°-80°)	3646.0	14.0			G2/5000
FVH (80°-90°)	38.1	0.1			G1/100
BL (0°-30°)	695.5	2.7	B2/1000		
BM (30°-60°)	604.7	2.3	B1/1000		
BH (60°-80°)	156.1	0.6	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P193484

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7
2.5°	8689.2	8596.9	8569.2	8550.7	8466.0	8359.8	8215.1	8147.3	8008.8	7785.5	7511.5
5°	9485.2	9468.3	9406.7	9372.8	9282.0	9131.1	8900.2	8789.3	8569.2	8193.5	7702.4
7.5°	9137.3	9243.5	9328.2	9469.8	9648.4	9642.2	9448.2	9332.8	9086.5	8590.7	7914.9
10°	7793.2	7879.4	8018.0	8339.8	8995.6	9574.5	9802.3	9719.2	9522.1	8955.6	8119.6
12.5°	7530.0	7520.7	7545.4	7639.3	7982.6	8807.8	9742.3	9910.1	9870.1	9289.7	8313.6
15°	7670.1	7659.3	7656.2	7688.5	7771.7	8119.6	9291.2	9773.1	10082.5	9599.1	8478.3
17.5°	8062.7	8016.5	7991.8	7965.7	7941.0	8027.2	8749.3	9389.7	10114.9	9870.1	8615.4
20°	8735.4	8658.5	8567.6	8419.8	8281.3	8238.2	8521.4	8995.6	9999.4	10076.4	8704.6
22.5°	9580.7	9482.1	9325.1	9055.7	8773.9	8610.7	8633.8	8870.9	9827.0	10301.2	8746.2
25°	10530.6	10404.3	10194.9	9820.8	9406.7	9117.2	8966.4	9049.5	9748.5	10564.4	8793.9
27.5°	11548.2	11408.1	11134.1	10624.5	10154.9	9763.9	9455.9	9445.2	9882.4	10909.3	8870.9
30°	12556.6	12535.1	12177.9	11639.0	11017.1	10541.3	10097.9	10041.0	10256.5	11386.5	9023.3
32.5°	13902.2	13740.5	13303.3	12749.1	12031.6	11460.4	10935.5	10803.1	10830.8	11942.3	9258.9
35°	15598.8	15421.7	14805.9	14040.7	13238.6	12564.3	11983.9	11803.8	11736.0	12852.2	9656.1
37.5°	16694.9	16691.9	16305.4	15526.4	14665.8	13922.2	13291.0	13080.1	12943.0	13951.4	10271.9
40°	16724.2	16796.5	16847.4	16839.7	16226.9	15541.8	14981.4	14721.2	14402.5	15420.2	11067.9
42.5°	15826.6	16012.9	16460.9	17221.5	17584.8	17312.3	16839.7	16584.1	16109.9	16992.1	12037.8
45°	14613.5	14742.8	15526.4	16927.4	18320.7	19067.4	18707.1	18249.9	17624.8	18631.7	12907.6
47.5°	14070.0	14093.1	14599.6	16137.6	18376.1	20505.3	20724.0	19980.3	19001.2	19952.6	13588.1
50°	12445.8	12487.3	13186.3	14769.0	17726.4	21184.3	22750.0	22044.9	20502.3	20970.3	13836.0
52.5°	9380.5	9439.0	10325.8	12519.7	15940.6	20894.8	24200.3	24029.4	22146.5	21467.6	13849.8
55°	5534.7	5611.7	6458.4	8427.5	12538.1	19053.5	24308.0	24936.2	23444.3	21761.6	13828.3
57.5°	2584.9	2638.8	3123.8	4341.5	7797.8	15058.4	22685.3	24314.2	24160.2	21917.1	13980.7
60°	1373.3	1388.7	1505.7	1879.8	3524.0	9548.3	19518.5	21955.6	23507.5	22132.6	14167.0
62.5°	1050.0	1054.6	1048.4	1093.1	1481.1	4238.4	14753.6	18049.7	20879.4	21971.0	13960.7
65°	909.9	917.6	874.5	863.7	949.9	1511.8	8764.7	12866.1	16407.0	19789.4	12555.1
67.5°	816.0	819.0	766.7	722.1	737.4	817.5	3457.8	7043.5	10860.0	14505.7	9100.3
70°	751.3	748.2	691.3	620.4	600.4	558.9	1099.2	2581.8	5189.8	7356.0	4232.2
72.5°	665.1	666.6	638.9	546.5	498.8	391.0	509.6	752.8	1548.8	2004.5	991.5
75°	589.6	582.0	548.1	489.6	411.1	257.1	252.5	335.6	477.3	474.2	214.0
77.5°	426.5	418.8	429.5	401.8	315.6	166.3	126.2	161.7	194.0	187.8	60.0
80°	312.5	307.9	277.1	334.1	278.7	113.9	78.5	86.2	100.1	84.7	18.5
82.5°	214.0	212.5	195.5	184.7	158.6	69.3	49.3	53.9	64.7	47.7	9.2
85°	33.9	38.5	141.6	112.4	93.9	30.8	33.9	36.9	43.1	26.2	3.1
87.5°	0.0	0.0	66.2	58.5	18.5	12.3	20.0	21.6	21.6	13.9	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7	7343.7
2.5°	7371.4	7217.4	6932.6	6638.6	6366.1	6041.2	5818.0	5650.2	5456.2	5403.8	5517.8
5°	7422.2	7131.2	6518.5	5851.8	5225.3	4530.9	3999.8	3579.5	3199.2	3069.9	3186.9
7.5°	7502.3	7069.6	6070.5	4972.8	3882.8	2798.9	2056.8	1568.8	1257.8	1165.4	1214.7
10°	7582.3	6980.3	5551.6	3932.0	2441.7	1362.5	886.8	708.2	642.0	628.1	635.8
12.5°	7648.5	6860.3	4918.9	2795.8	1305.5	729.7	580.4	551.2	541.9	541.9	545.0
15°	7688.5	6678.6	4169.1	1778.2	751.3	551.2	506.5	497.3	497.3	498.8	501.9
17.5°	7683.9	6447.7	3348.5	1076.1	561.9	488.0	461.9	454.2	452.6	455.7	457.2
20°	7627.0	6145.9	2524.9	709.7	489.6	444.9	418.8	404.9	403.4	406.4	409.5
22.5°	7519.2	5773.3	1805.9	546.5	441.9	403.4	371.0	358.7	358.7	361.8	364.9
25°	7388.3	5317.6	1234.7	463.4	398.7	358.7	327.9	317.1	320.2	327.9	329.5
27.5°	7225.1	4805.0	839.1	397.2	346.4	314.1	291.0	283.3	291.0	301.8	304.8
30°	7085.0	4270.7	598.9	343.3	294.1	271.0	257.1	257.1	267.9	287.9	292.5
32.5°	6977.3	3753.4	461.9	303.3	255.6	235.6	227.9	235.6	252.5	272.5	277.1
35°	6963.4	3327.0	391.0	271.0	227.9	207.8	204.8	218.6	235.6	250.9	254.0
37.5°	7069.6	2932.9	352.6	244.8	203.2	184.7	181.7	198.6	215.5	234.0	238.6
40°	7271.3	2623.4	324.8	220.2	183.2	163.2	157.0	169.4	192.4	217.1	223.2
42.5°	7533.0	2367.8	294.1	195.5	163.2	135.5	127.8	141.6	166.3	192.4	200.1
45°	7782.5	2147.7	260.2	167.8	137.0	104.7	101.6	120.1	132.4	158.6	164.7
47.5°	7919.5	1953.7	230.9	137.0	106.2	84.7	84.7	89.3	101.6	132.4	138.6
50°	7873.3	1798.2	200.1	101.6	73.9	64.7	64.7	63.1	81.6	106.2	110.8
52.5°	7780.9	1708.9	172.4	78.5	50.8	46.2	41.6	46.2	57.0	67.7	69.3
55°	7767.1	1693.5	144.7	63.1	35.4	30.8	23.1	23.1	23.1	21.6	18.5
57.5°	7874.8	1718.1	121.6	50.8	26.2	20.0	12.3	0.0	0.0	0.0	0.0
60°	7985.7	1744.3	104.7	35.4	18.5	10.8	1.5	0.0	0.0	0.0	0.0
62.5°	7800.9	1685.8	87.8	21.6	13.9	4.6	0.0	0.0	0.0	0.0	0.0
65°	6852.6	1434.9	69.3	15.4	9.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4874.2	960.7	46.2	9.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2224.7	401.8	29.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	475.7	124.7	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	97.0	90.8	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	30.8	143.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.5	103.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	15.4	0.0	0.0	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	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

(END OF REPORT)