

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: P530210

Luminaire Tested: **GALN-SA5B-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19157 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

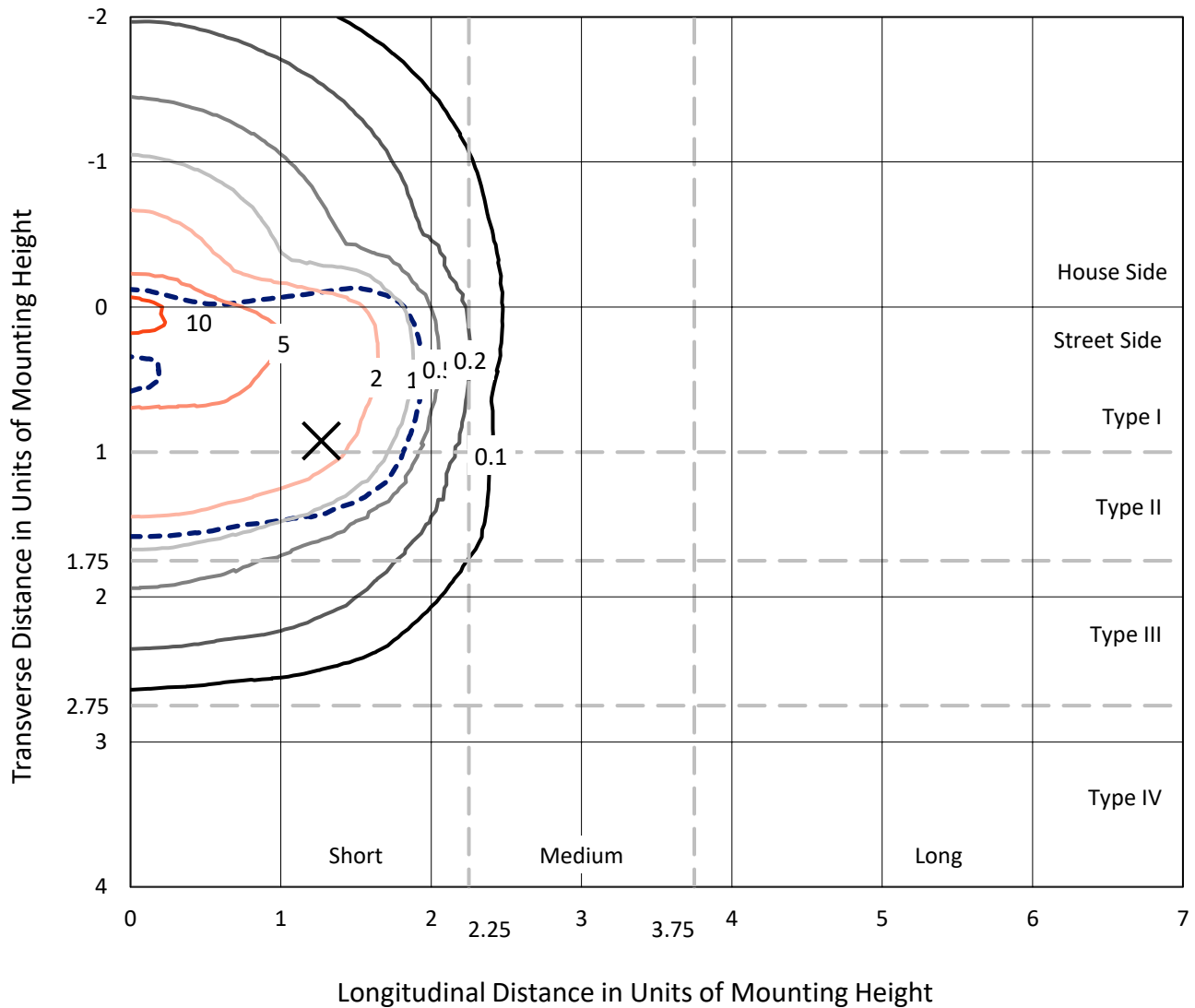
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

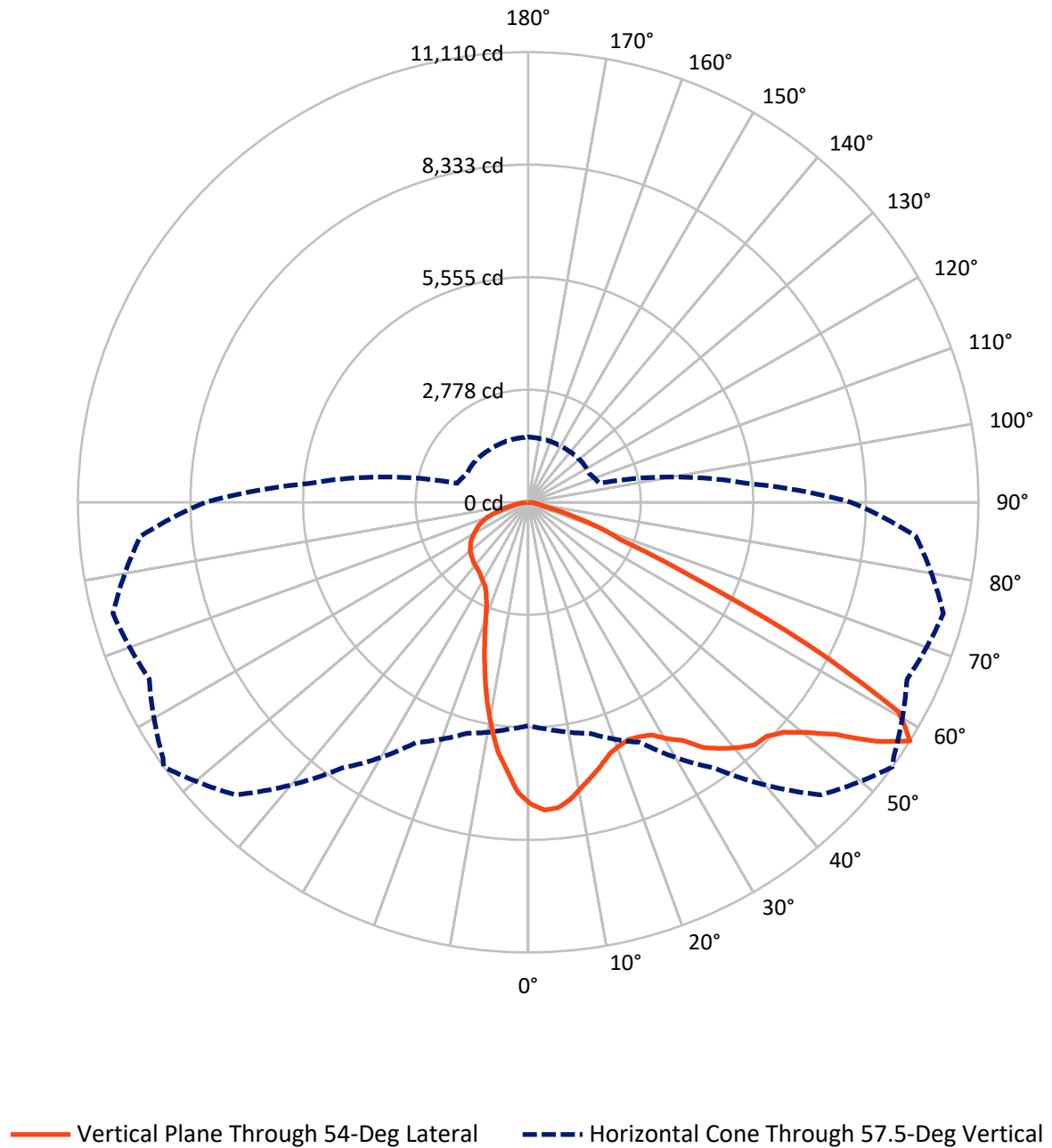


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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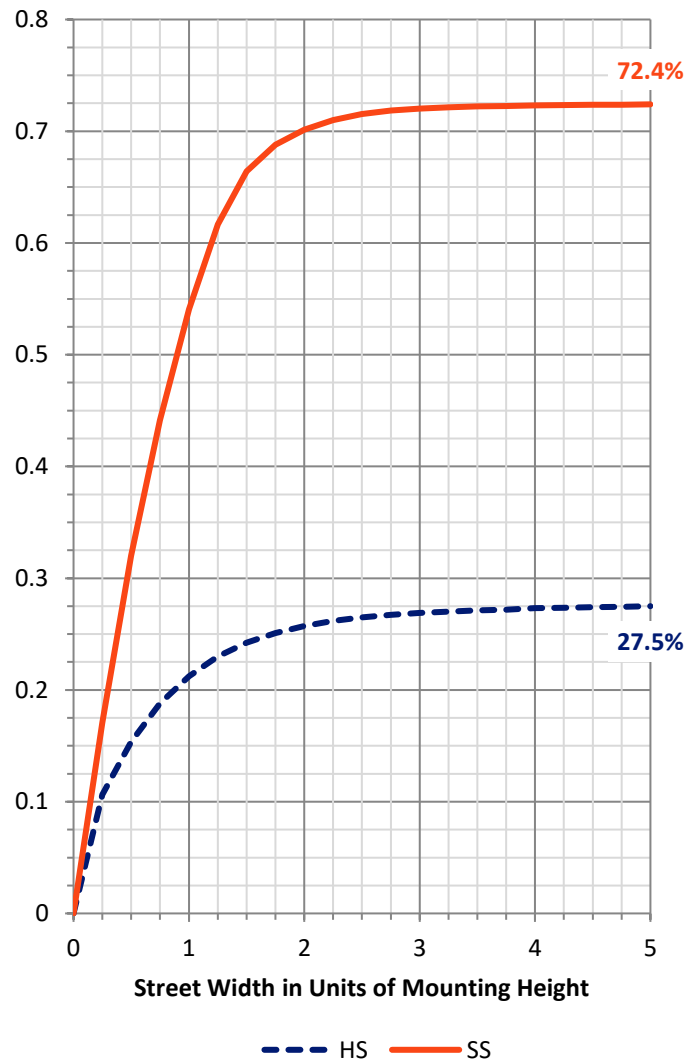
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5299.9	0.0	5299.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	13857.1	0.0	13857.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	19157.0	0.0	19157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.2	3.4
10°-20°	1486.8	7.8
20°-30°	2089.0	10.9
30°-40°	2920.4	15.2
40°-50°	3953.7	20.6
50°-60°	4815.8	25.1
60°-70°	2508.3	13.1
70°-80°	642.7	3.4
80°-90°	98.0	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°	19157.0	100.0
0°-180°	19157.0	100.0

Coefficient of Utilization



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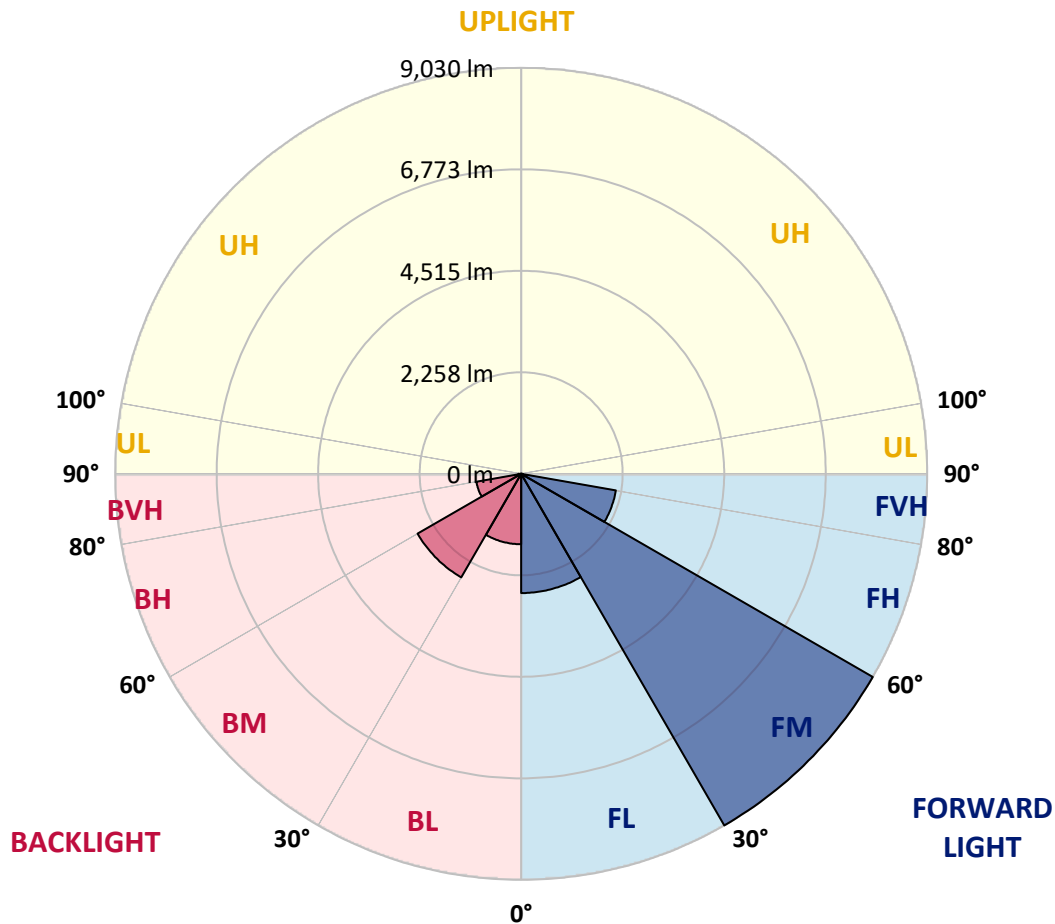
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2651.6	13.8			
FM	(30°-60°)	9030.0	47.1			
FH	(60°-80°)	2138.5	11.2			G2/5000
FVH	(80°-90°)	37.0	0.2			G1/100
BL	(0°-30°)	1566.4	8.2	B3/2500		
BM	(30°-60°)	2660.0	13.9	B3/5000		
BH	(60°-80°)	1012.5	5.3	B3/2500		G3/2500
BVH	(80°-90°)	61.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1
2.5°	7657.9	7628.3	7633.2	7672.6	7623.4	7603.7	7603.7	7507.7	7515.1	7448.6	7431.3
5°	7480.6	7411.6	7458.4	7517.5	7527.4	7547.1	7579.1	7554.4	7485.5	7414.1	7298.4
7.5°	7017.7	7079.2	7096.5	7138.3	7227.0	7308.2	7409.2	7340.2	7337.8	7266.4	7197.4
10°	6611.4	6574.4	6668.0	6729.6	6877.3	7012.7	7167.9	7160.5	7197.4	7116.2	6998.0
12.5°	6207.6	6178.0	6222.3	6362.7	6569.5	6766.5	6951.2	6882.2	7079.2	7064.4	6810.8
15°	5779.1	5801.3	5865.3	5995.8	6266.6	6503.0	6737.0	6739.4	6914.2	6973.3	6633.5
17.5°	5478.7	5454.1	5535.3	5729.9	5971.2	6254.3	6520.3	6574.4	6842.8	6877.3	6579.4
20°	5254.6	5289.1	5395.0	5493.5	5771.7	6114.0	6414.4	6434.1	6828.1	6921.6	6493.2
22.5°	5200.5	5180.8	5215.2	5375.3	5604.3	5976.1	6357.8	6431.6	6825.6	6906.9	6330.7
25°	5143.8	5207.8	5205.4	5365.4	5532.9	5865.3	6404.5	6485.8	6956.1	6983.2	6352.8
27.5°	5271.9	5264.5	5333.4	5345.7	5552.6	5894.8	6503.0	6564.6	7172.8	7150.6	6370.1
30°	5399.9	5363.0	5404.8	5550.1	5646.1	6064.7	6773.9	6769.0	7453.5	7438.7	6424.2
32.5°	5557.5	5540.3	5567.3	5695.4	5857.9	6291.3	7002.9	7148.2	7739.1	7832.7	6611.4
35°	5587.0	5658.4	5722.5	5894.8	6126.3	6658.2	7433.8	7554.4	8069.1	8362.1	6968.4
37.5°	5774.2	5801.3	5951.5	6256.8	6468.6	7148.2	7707.1	7783.4	8369.5	8701.9	7345.2
40°	5973.6	6005.6	6232.2	6552.3	6842.8	7468.3	7963.2	7987.8	8465.5	8962.9	7591.4
42.5°	6244.5	6274.0	6498.1	6899.5	7288.5	7741.6	8189.7	8216.8	8458.1	9263.3	7982.9
45°	6525.2	6596.6	6860.1	7315.6	7665.3	8061.7	8241.4	8352.2	8527.1	9531.7	8300.5
47.5°	6919.2	6985.6	7202.3	7648.0	8056.8	8342.4	8480.3	8588.6	8692.0	9765.6	8504.9
50°	7337.8	7350.1	7613.5	8017.4	8317.8	8660.0	8926.0	8962.9	8908.7	10036.5	8852.1
52.5°	7645.6	7685.0	7889.3	8283.3	8731.4	9152.5	9516.9	9556.3	9450.4	10137.4	8970.3
55°	7135.9	7113.7	7446.1	7970.6	9009.7	9886.3	10415.7	10445.2	9844.4	10450.2	9356.9
57.5°	5515.6	5621.5	5904.7	6537.5	8005.1	10211.3	11110.1	11004.2	10317.2	10607.7	9603.1
60°	4008.7	3984.1	4173.7	4597.2	6032.7	8800.4	10504.3	10612.7	9930.6	9561.3	7918.9
62.5°	3265.1	3230.6	3245.4	3260.1	3893.0	5840.7	7776.1	7773.6	7648.0	6872.4	5340.8
65°	2610.1	2691.3	2698.7	2809.5	2890.8	3489.1	4506.1	4747.4	4134.3	3390.6	2459.9
67.5°	1967.4	1937.9	2036.4	2430.3	2583.0	2519.0	2459.9	2487.0	1768.0	1275.5	1201.6
70°	1159.8	1147.4	1265.6	1694.1	2127.5	2001.9	1854.1	1856.6	1213.9	891.4	992.3
72.5°	635.3	632.8	657.4	859.4	1209.0	1255.8	1113.0	1147.4	723.9	721.5	775.6
75°	354.6	347.2	339.8	379.2	435.8	460.5	470.3	475.2	497.4	556.5	578.6
77.5°	130.5	125.6	125.6	145.3	184.7	231.5	293.0	297.9	352.1	403.8	426.0
80°	44.3	49.2	66.5	91.1	123.1	165.0	199.4	204.4	248.7	283.2	290.6
82.5°	27.1	29.5	44.3	64.0	88.6	115.7	147.7	150.2	184.7	206.8	216.7
85°	12.3	14.8	24.6	39.4	56.6	76.3	78.8	78.8	76.3	78.8	73.9
87.5°	0.0	0.0	4.9	4.9	4.9	7.4	9.8	7.4	12.3	14.8	14.8
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°	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1	7446.1
2.5°	7379.6	7352.5	7268.8	7194.9	7172.8	7074.3	6929.0	6946.3	6840.4	6889.6	6837.9
5°	7278.7	7187.6	6973.3	6882.2	6643.4	6535.0	6461.2	6276.5	6190.3	6173.1	6099.2
7.5°	7020.1	6963.5	6695.1	6448.9	6195.2	5978.6	5700.3	5510.7	5375.3	5338.3	5230.0
10°	6815.7	6690.2	6318.4	5944.1	5582.1	5205.4	4843.4	4560.2	4422.4	4262.3	4208.1
12.5°	6613.8	6424.2	5921.9	5441.8	4973.9	4498.7	4060.4	3715.7	3415.3	3343.9	3319.2
15°	6488.3	6158.3	5567.3	4988.7	4323.9	3703.4	3265.1	3038.5	2853.8	2777.5	2831.7
17.5°	6323.3	5939.2	5227.5	4456.8	3725.5	3154.3	2787.4	2647.0	2580.5	2587.9	2565.8
20°	6116.4	5732.3	4781.9	3974.2	3191.2	2735.7	2526.4	2474.6	2484.5	2501.7	2494.3
22.5°	5968.7	5481.2	4459.3	3481.7	2757.8	2504.2	2418.0	2381.1	2413.1	2427.9	2415.6
25°	5855.4	5266.9	4067.8	3045.9	2506.7	2373.7	2334.3	2331.8	2381.1	2400.8	2388.5
27.5°	5752.0	5067.5	3678.7	2713.5	2339.2	2272.7	2260.4	2290.0	2322.0	2341.7	2358.9
30°	5690.5	4914.8	3314.3	2435.3	2255.5	2223.5	2201.3	2228.4	2245.7	2265.3	2255.5
32.5°	5749.6	4806.5	2962.2	2277.7	2186.6	2154.5	2184.1	2166.9	2196.4	2213.6	2186.6
35°	5934.2	4710.5	2711.0	2193.9	2107.8	2120.1	2125.0	2117.6	2129.9	2115.1	2147.2
37.5°	6116.4	4676.0	2479.6	2122.5	2070.8	2070.8	2065.9	2051.1	2075.7	2070.8	2085.6
40°	6347.9	4698.1	2282.6	2046.2	2036.4	2031.4	2011.7	2009.3	1999.4	2001.9	2006.8
42.5°	6549.8	4747.4	2169.3	1997.0	2004.3	2014.2	1977.3	1947.7	1960.0	1935.4	1935.4
45°	6764.0	4791.7	2068.4	1962.5	1955.1	1952.6	1923.1	1905.8	1896.0	1898.5	1920.6
47.5°	7101.4	4855.7	1992.0	1915.7	1920.6	1883.7	1876.3	1854.1	1864.0	1878.8	1881.2
50°	7340.2	4991.2	1932.9	1861.5	1878.8	1854.1	1809.8	1800.0	1800.0	1824.6	1819.7
52.5°	7507.7	5180.8	1876.3	1802.4	1809.8	1790.1	1775.3	1753.2	1738.4	1772.9	1790.1
55°	8019.8	5495.9	1861.5	1753.2	1750.7	1731.0	1703.9	1681.8	1674.4	1679.3	1713.8
57.5°	7970.6	5397.4	1814.7	1667.0	1662.1	1635.0	1607.9	1600.5	1598.1	1603.0	1612.8
60°	6471.0	3986.5	1620.2	1568.5	1561.1	1556.2	1529.1	1499.6	1484.8	1499.6	1487.3
62.5°	4282.0	2669.2	1428.2	1450.3	1455.2	1442.9	1398.6	1369.1	1374.0	1391.2	1364.1
65°	2102.8	1568.5	1295.2	1354.3	1359.2	1324.7	1282.9	1248.4	1231.2	1245.9	1233.6
67.5°	1201.6	1199.2	1186.8	1248.4	1245.9	1211.5	1145.0	1115.4	1085.9	1090.8	1083.4
70°	1019.4	1039.1	1063.7	1100.7	1098.2	1058.8	980.0	957.8	916.0	911.1	898.8
72.5°	802.7	837.2	891.4	918.5	896.3	847.0	795.3	758.4	721.5	699.3	706.7
75°	595.9	645.1	674.7	691.9	657.4	630.4	588.5	544.2	499.9	480.2	472.8
77.5°	433.4	448.1	475.2	487.5	465.4	438.3	413.7	369.4	327.5	300.4	293.0
80°	302.9	312.7	332.4	332.4	332.4	320.1	288.1	243.8	216.7	192.1	187.1
82.5°	211.8	221.6	241.3	231.5	229.0	214.2	194.5	160.1	130.5	113.3	108.3
85°	73.9	81.3	98.5	118.2	125.6	123.1	110.8	88.6	68.9	56.6	51.7
87.5°	17.2	17.2	19.7	17.2	17.2	19.7	17.2	17.2	17.2	12.3	9.8
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)