

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: P199982

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL4-7030-800-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7745.1 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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

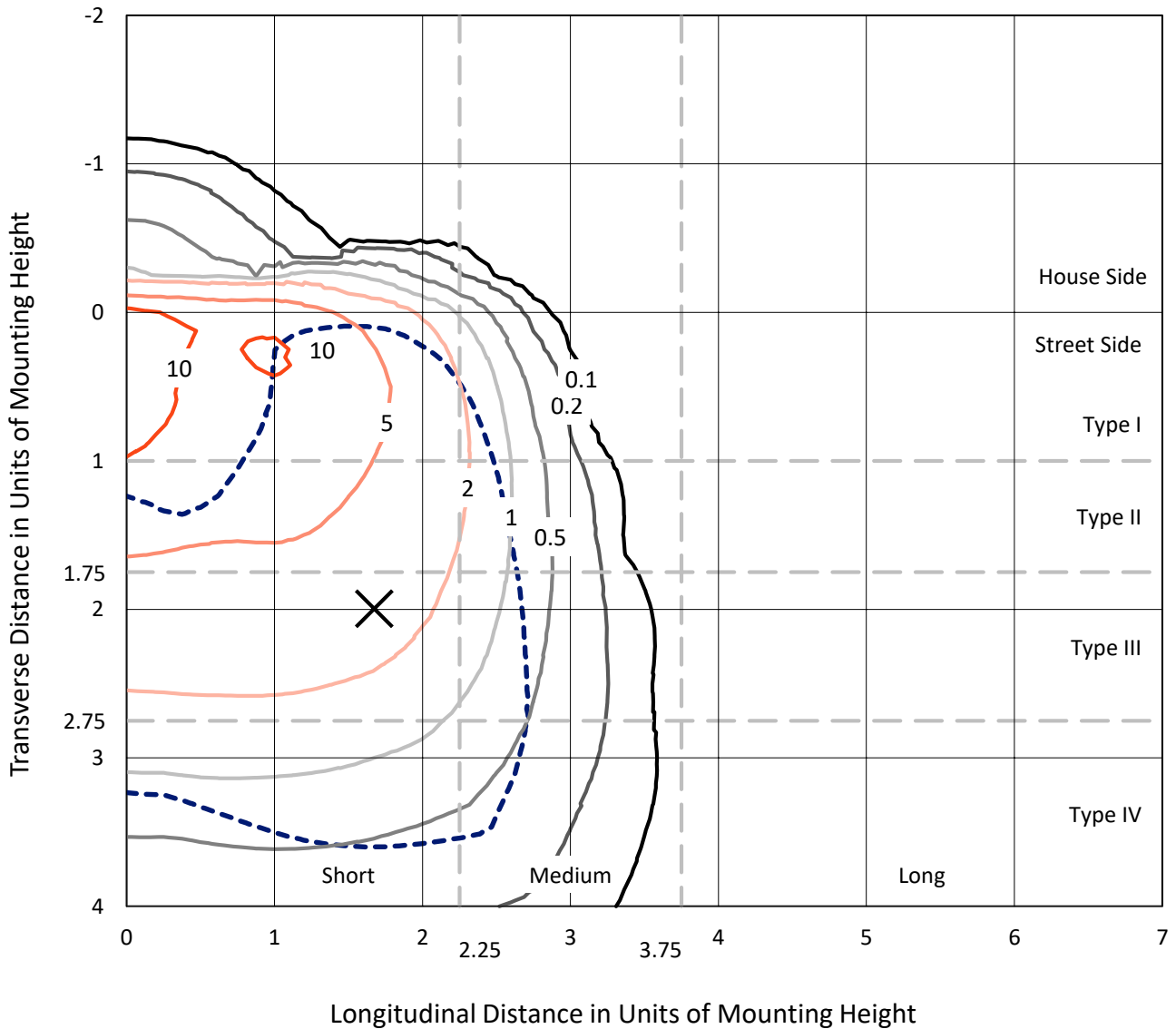


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

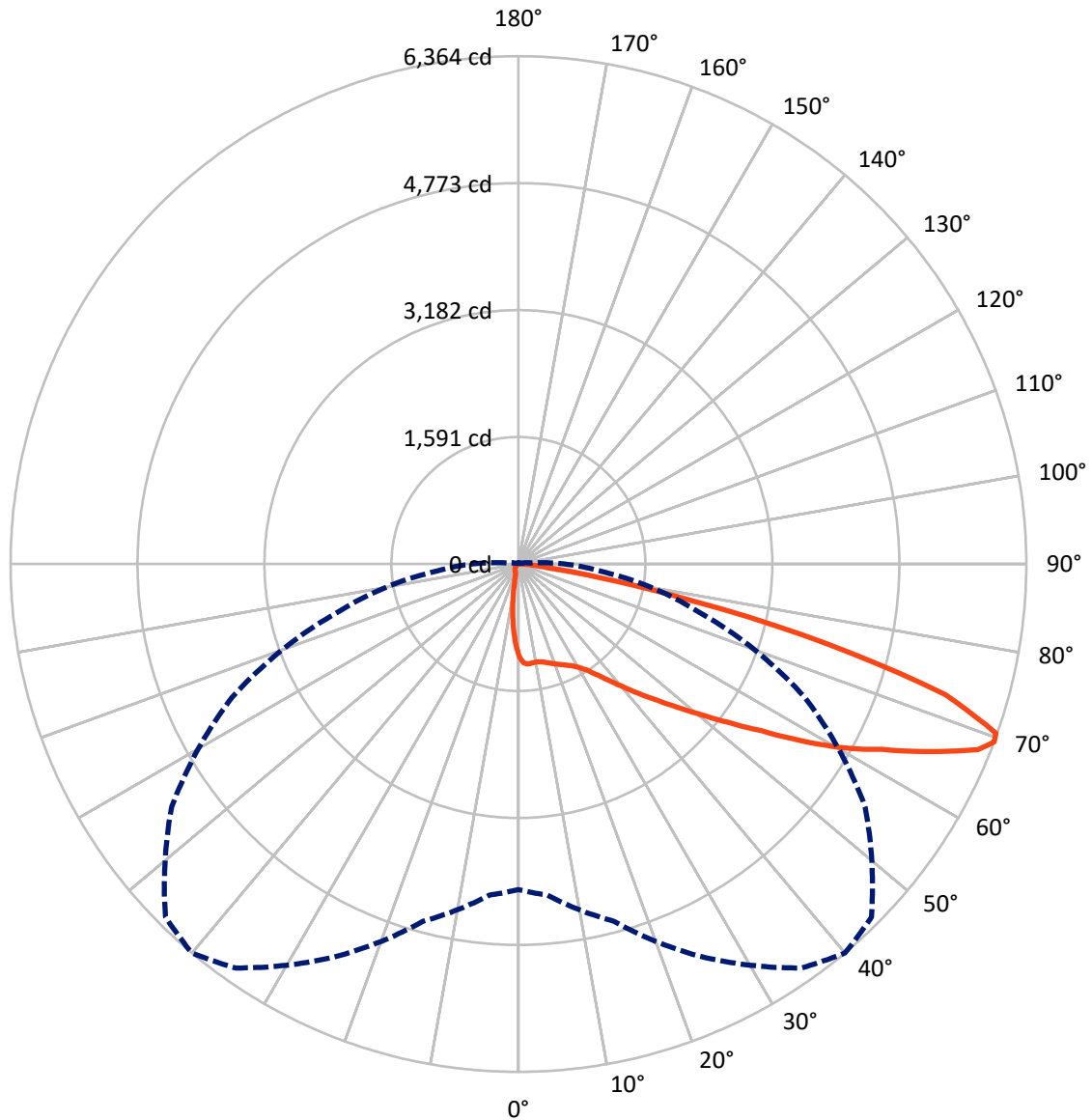


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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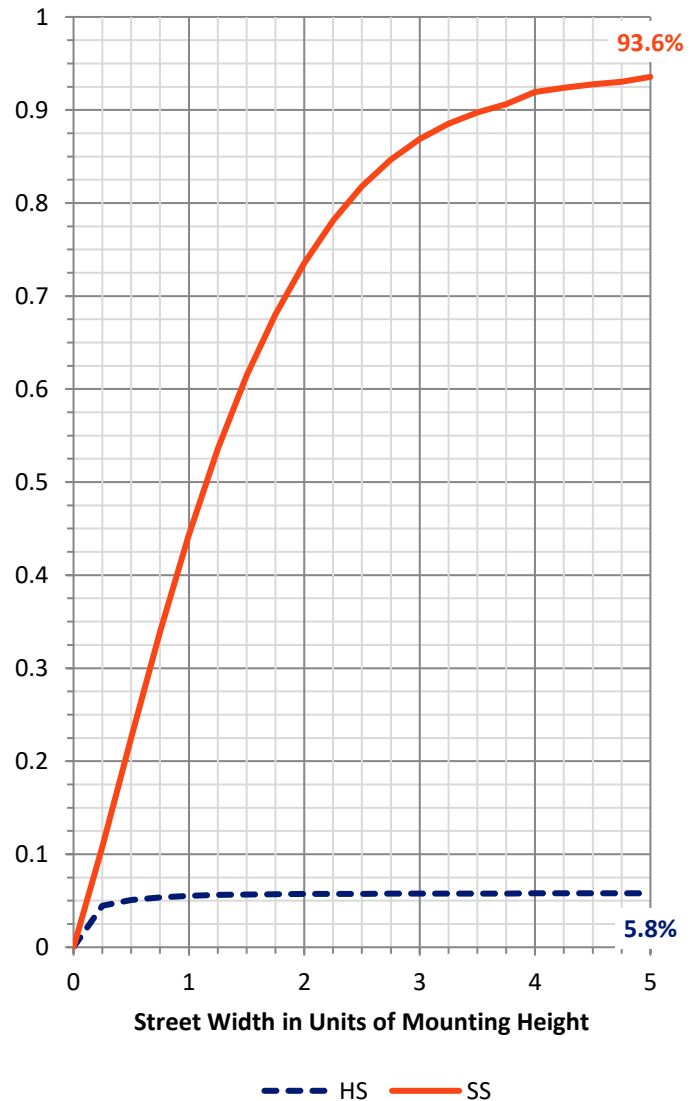
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	453.1	0.0	453.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	7292.0	0.0	7292.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	7745.1	0.0	7745.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	1.2
10°-20°	230.7	3.0
20°-30°	388.6	5.0
30°-40°	636.2	8.2
40°-50°	1101.5	14.2
50°-60°	1735.0	22.4
60°-70°	2265.9	29.3
70°-80°	1167.0	15.1
80°-90°	126.2	1.6
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°	7745.1	100.0
0°-180°	7745.1	100.0



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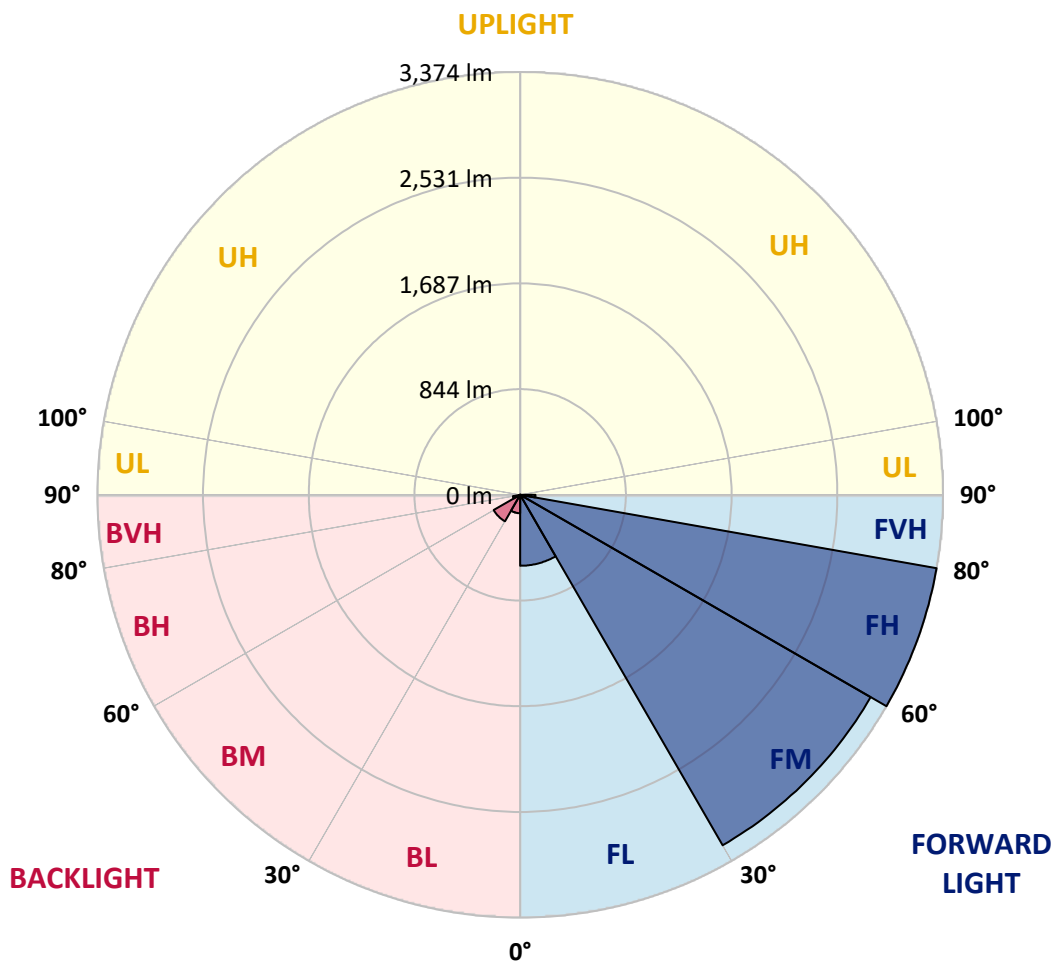
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.4	7.3			
FM	(30°-60°)	3229.2	41.7			
FH	(60°-80°)	3374.1	43.6			G2/5000
FVH	(80°-90°)	122.3	1.6			G2/225
BL	(0°-30°)	146.8	1.9	B1/500		
BM	(30°-60°)	243.5	3.1	B1/1000		
BH	(60°-80°)	58.8	0.8	B0/110		G0/110
BVH	(80°-90°)	4.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2
2.5°	1270.6	1263.6	1259.5	1254.0	1247.1	1241.1	1238.7	1221.8	1205.5	1183.4	1158.1
5°	1294.0	1291.8	1284.4	1277.1	1268.7	1259.5	1254.4	1234.1	1211.1	1178.8	1134.5
7.5°	1296.4	1293.6	1284.4	1274.3	1262.8	1251.7	1242.9	1222.6	1201.5	1168.7	1114.8
10°	1292.8	1289.4	1282.6	1271.5	1257.2	1246.6	1237.9	1218.4	1200.5	1171.0	1111.0
12.5°	1288.6	1285.3	1282.1	1276.5	1264.1	1256.8	1249.4	1230.9	1214.8	1189.9	1124.4
15°	1292.8	1290.8	1294.6	1292.2	1285.3	1278.9	1271.5	1254.9	1240.1	1219.4	1148.8
17.5°	1310.3	1310.3	1321.8	1323.2	1316.7	1307.5	1296.8	1280.3	1267.8	1250.3	1177.9
20°	1351.3	1349.9	1364.6	1367.4	1351.7	1337.4	1321.8	1301.5	1291.8	1280.7	1206.5
22.5°	1421.8	1415.3	1424.1	1421.3	1390.4	1368.3	1348.9	1324.0	1319.0	1313.9	1238.3
25°	1513.6	1509.8	1515.8	1488.7	1434.2	1404.2	1381.3	1353.1	1353.1	1358.2	1274.3
27.5°	1646.8	1632.9	1612.6	1564.7	1483.1	1444.8	1419.9	1390.0	1397.8	1416.7	1321.8
30°	1783.3	1768.0	1721.4	1647.7	1542.6	1502.5	1473.4	1442.1	1460.5	1495.1	1385.3
32.5°	1917.9	1900.8	1834.8	1741.7	1627.9	1587.8	1559.7	1525.1	1555.9	1614.0	1478.5
35°	2048.4	2033.1	1957.1	1847.3	1741.3	1708.1	1682.3	1652.4	1692.0	1773.1	1609.9
37.5°	2195.0	2178.3	2085.6	1966.7	1879.1	1855.1	1836.2	1806.3	1875.4	1994.3	1793.0
40°	2375.2	2347.1	2222.2	2103.7	2038.6	2027.1	2014.2	2010.0	2117.4	2282.1	2036.8
42.5°	2581.8	2535.7	2365.0	2247.9	2213.8	2222.2	2218.9	2237.3	2420.3	2639.9	2333.6
45°	2788.3	2728.8	2524.1	2402.0	2406.6	2435.6	2453.5	2527.3	2799.8	3050.2	2653.2
47.5°	2963.5	2904.9	2676.7	2568.3	2623.6	2680.9	2729.8	2869.4	3189.8	3454.0	2901.7
50°	3113.3	3058.0	2838.6	2751.3	2875.8	2968.1	3047.4	3254.3	3609.3	3761.5	3075.9
52.5°	3235.9	3199.0	3006.3	2961.1	3164.0	3299.1	3415.2	3663.2	3980.9	4011.3	3211.5
55°	3355.3	3329.1	3186.6	3210.5	3502.3	3686.3	3833.4	4097.1	4300.9	4219.7	3341.4
57.5°	3492.7	3468.7	3392.2	3526.8	3947.2	4178.7	4339.2	4481.6	4582.5	4432.7	3464.1
60°	3632.8	3619.0	3620.9	3878.2	4458.1	4680.3	4768.8	4805.7	4859.2	4633.2	3471.1
62.5°	3766.6	3792.9	3882.2	4269.0	4947.2	5117.9	5162.5	5198.9	5136.2	4665.1	3206.9
65°	3992.9	4035.8	4249.3	4792.3	5485.2	5667.8	5713.9	5588.9	5180.0	4253.9	2608.5
67.5°	4103.6	4181.9	4562.8	5280.0	6007.1	6210.0	6192.9	5614.3	4648.5	3243.7	1673.9
69°	4080.5	4164.0	4635.2	5429.4	6180.4	6364.4	6256.1	5304.1	3960.2	2349.9	1027.6
70°	3989.2	4073.6	4597.8	5424.0	6202.6	6348.3	6139.0	4921.0	3348.4	1718.2	642.6
72.5°	3331.3	3404.2	4081.9	4902.5	5713.9	5595.4	5135.8	3409.2	1631.5	468.0	144.8
75°	2050.6	2091.2	2928.9	3693.2	4315.6	4011.3	3421.7	1696.1	486.3	132.3	80.2
77.5°	1083.4	1101.9	1603.5	2176.9	2735.7	2263.6	1753.7	661.5	224.1	83.0	58.1
80°	640.4	654.2	863.4	995.3	1184.0	988.9	701.3	406.1	160.5	52.1	51.7
82.5°	366.5	375.3	626.1	553.3	466.6	398.4	349.0	384.9	96.3	35.0	53.5
85°	134.6	136.5	352.2	420.9	277.5	165.1	173.4	319.0	25.8	22.1	42.0
87.5°	62.7	61.3	181.2	257.7	162.3	104.6	135.1	70.0	10.1	14.3	11.5
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°	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2
2.5°	1143.4	1126.3	1095.3	1063.5	1031.3	1006.4	982.0	962.6	956.1	944.2	945.1
5°	1108.3	1077.0	1012.4	946.9	878.7	822.4	769.5	726.6	705.8	684.6	684.6
7.5°	1077.8	1032.2	931.2	824.8	714.6	621.9	538.4	475.8	441.2	413.5	413.1
10°	1066.3	1004.6	863.4	710.9	557.3	431.0	331.9	268.3	235.5	214.4	213.4
12.5°	1071.4	994.9	811.4	605.8	413.1	277.1	192.3	151.2	137.4	130.9	130.9
15°	1086.2	992.1	759.3	503.0	291.8	173.4	127.7	116.6	115.7	115.7	115.7
17.5°	1104.1	993.1	705.8	402.9	198.7	124.1	110.2	108.8	109.8	109.8	109.8
20°	1122.6	993.5	648.2	310.3	140.2	107.8	103.8	103.2	104.2	104.2	104.6
22.5°	1145.2	995.8	590.5	231.9	115.7	101.9	98.7	98.7	99.1	99.1	98.7
25°	1171.0	1000.4	530.6	172.0	105.6	97.7	94.9	94.5	94.9	94.5	94.1
27.5°	1203.3	1006.8	463.8	134.6	101.0	93.6	91.3	91.3	90.9	90.3	89.9
30°	1243.9	1014.2	388.6	114.3	96.3	89.9	87.6	87.1	86.7	85.7	85.7
32.5°	1305.6	1030.4	314.4	103.8	91.3	84.9	83.0	83.0	82.1	81.1	80.7
35°	1400.6	1062.2	248.0	97.3	85.7	79.3	77.0	77.0	76.0	75.6	75.2
37.5°	1532.0	1110.6	192.7	91.3	80.2	73.3	71.0	70.6	69.6	68.7	68.2
40°	1706.7	1170.5	151.7	85.7	74.6	67.3	65.5	64.6	62.7	61.3	61.3
42.5°	1926.1	1238.7	123.1	79.8	68.2	61.8	60.4	59.0	55.7	54.3	53.9
45°	2155.8	1300.1	104.2	72.8	61.8	56.3	55.3	53.1	48.9	47.5	47.5
47.5°	2321.3	1314.3	91.7	66.4	55.7	50.3	49.8	45.6	42.0	41.0	40.6
50°	2424.5	1286.2	81.6	59.9	50.3	44.7	43.3	38.2	36.0	35.0	34.6
52.5°	2494.1	1236.0	73.3	54.3	45.2	39.6	36.4	32.8	30.9	30.0	30.0
55°	2550.0	1165.0	65.0	49.3	41.0	35.6	30.9	28.1	26.3	25.3	25.3
57.5°	2565.5	1068.6	56.7	45.2	36.8	31.4	26.3	24.4	22.1	21.7	21.7
60°	2451.7	894.8	50.3	40.1	33.2	27.2	23.1	20.7	18.5	17.9	17.5
62.5°	2151.6	692.5	44.3	35.6	29.0	23.5	19.9	17.1	15.3	15.3	15.3
65°	1641.2	464.2	38.8	30.9	25.3	19.9	17.1	13.9	12.9	12.9	13.3
67.5°	982.5	252.6	33.2	26.3	21.7	16.6	14.3	12.0	11.5	12.0	12.0
69°	575.8	148.4	30.0	23.5	18.9	14.7	12.5	10.6	11.5	12.0	12.0
70°	355.4	100.0	27.7	21.2	17.1	13.3	11.5	10.1	11.1	11.5	11.5
72.5°	99.1	51.7	22.1	16.6	13.9	11.1	9.2	9.2	10.6	11.1	11.1
75°	64.6	38.2	17.1	12.5	10.6	8.8	7.8	8.8	10.1	10.6	10.6
77.5°	53.5	31.4	13.9	10.1	8.8	8.3	7.4	7.8	9.2	9.7	9.7
80°	48.9	22.1	11.1	9.2	7.8	7.4	6.9	6.4	8.3	8.8	8.8
82.5°	46.6	17.5	9.7	8.3	7.4	6.4	6.0	6.4	7.4	7.8	8.3
85°	29.0	11.5	8.8	7.8	6.4	6.0	6.0	6.0	6.9	7.4	7.4
87.5°	10.6	9.2	7.8	6.4	5.6	5.6	5.6	5.6	6.0	6.9	6.9
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)