

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: INVUE

Report Number: P181464

Luminaire Tested: **ICM-F05-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181464
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F05-LED-E1-T3
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11841.2 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

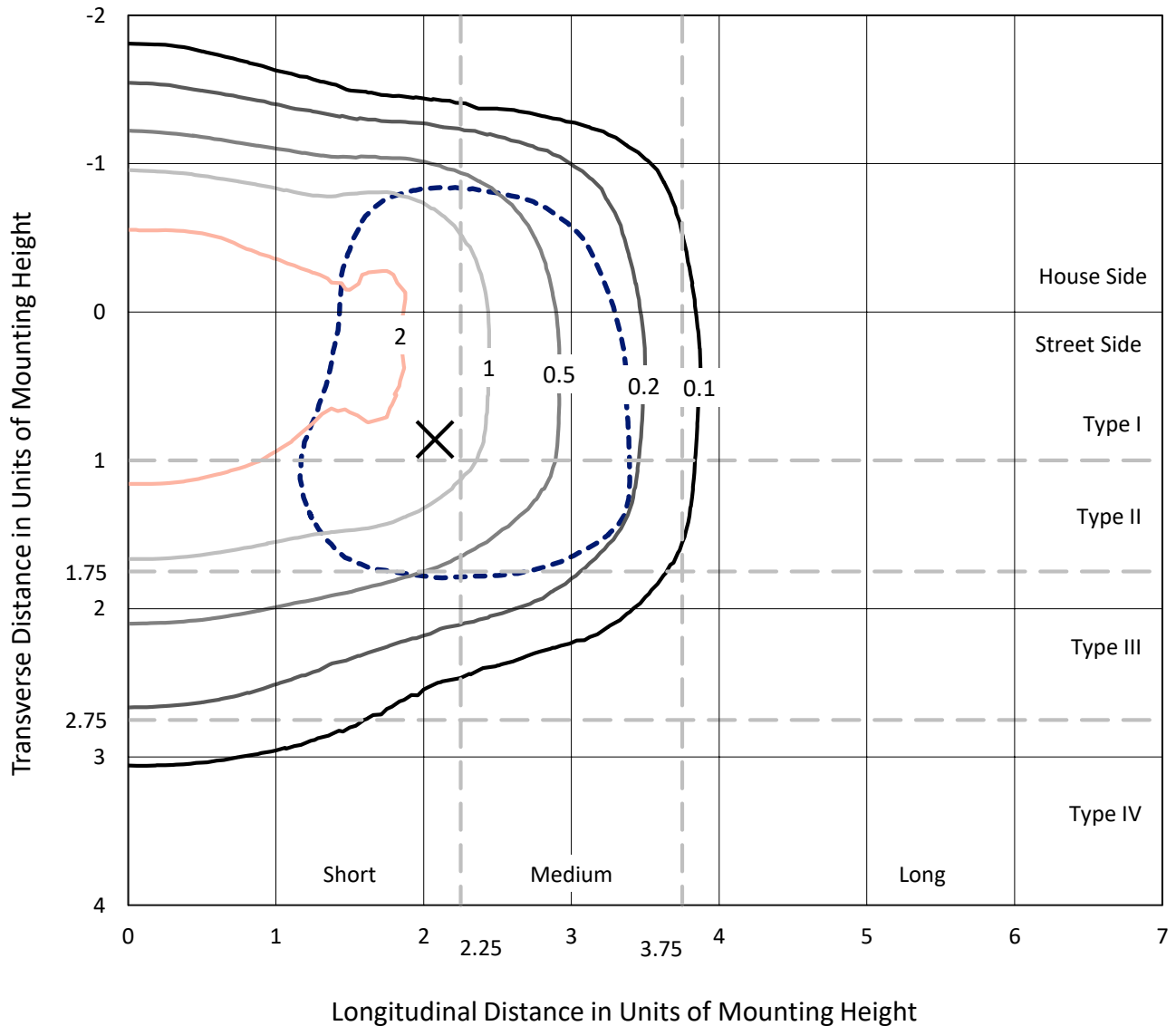
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

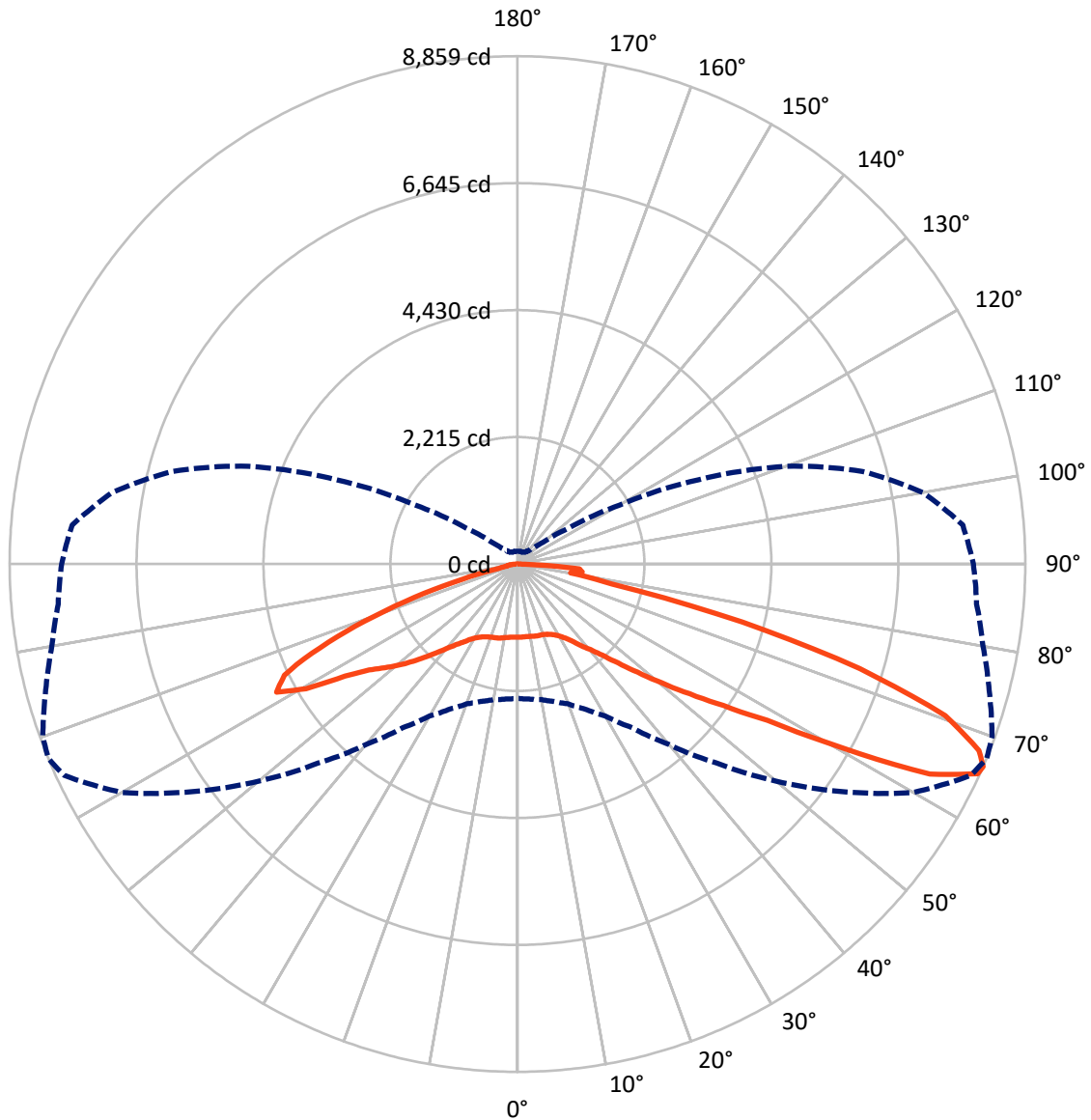
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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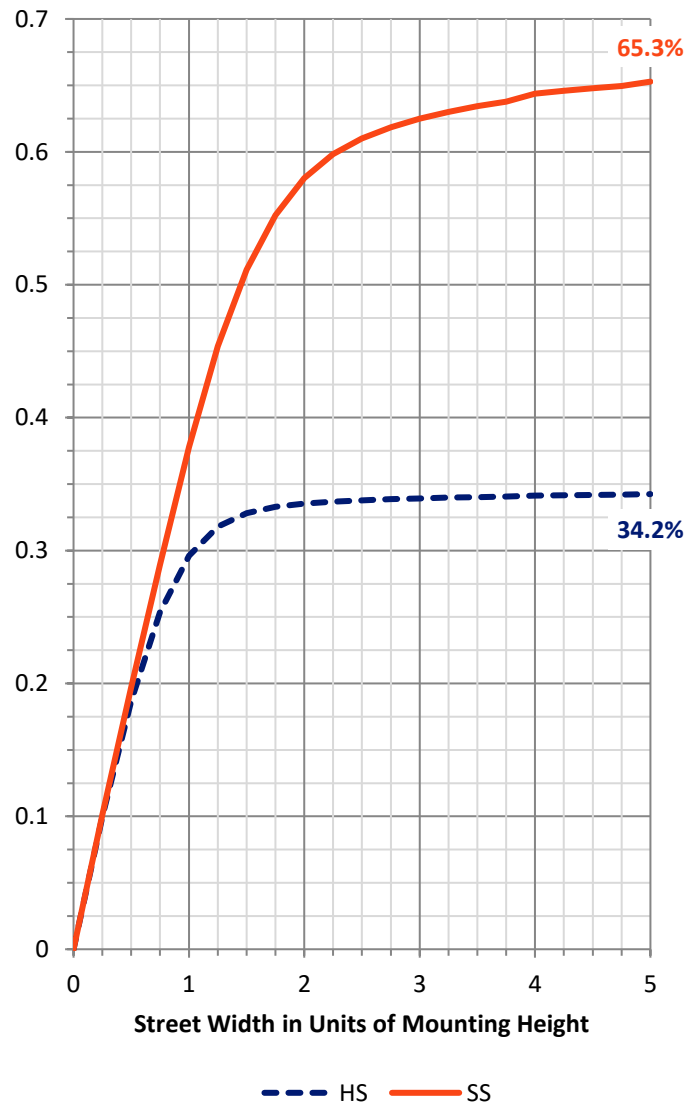
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4089.2	0.0	4089.2
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	7752.1	0.0	7752.1
	% Fixture	65.5	0.0	65.5
Total	Lumens	11841.2	0.0	11841.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.0
10°-20°	360.7	3.0
20°-30°	619.9	5.2
30°-40°	1006.6	8.5
40°-50°	1680.5	14.2
50°-60°	2646.2	22.3
60°-70°	3608.3	30.5
70°-80°	1562.0	13.2
80°-90°	234.9	2.0
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°	11841.2	100.0
0°-180°	11841.2	100.0



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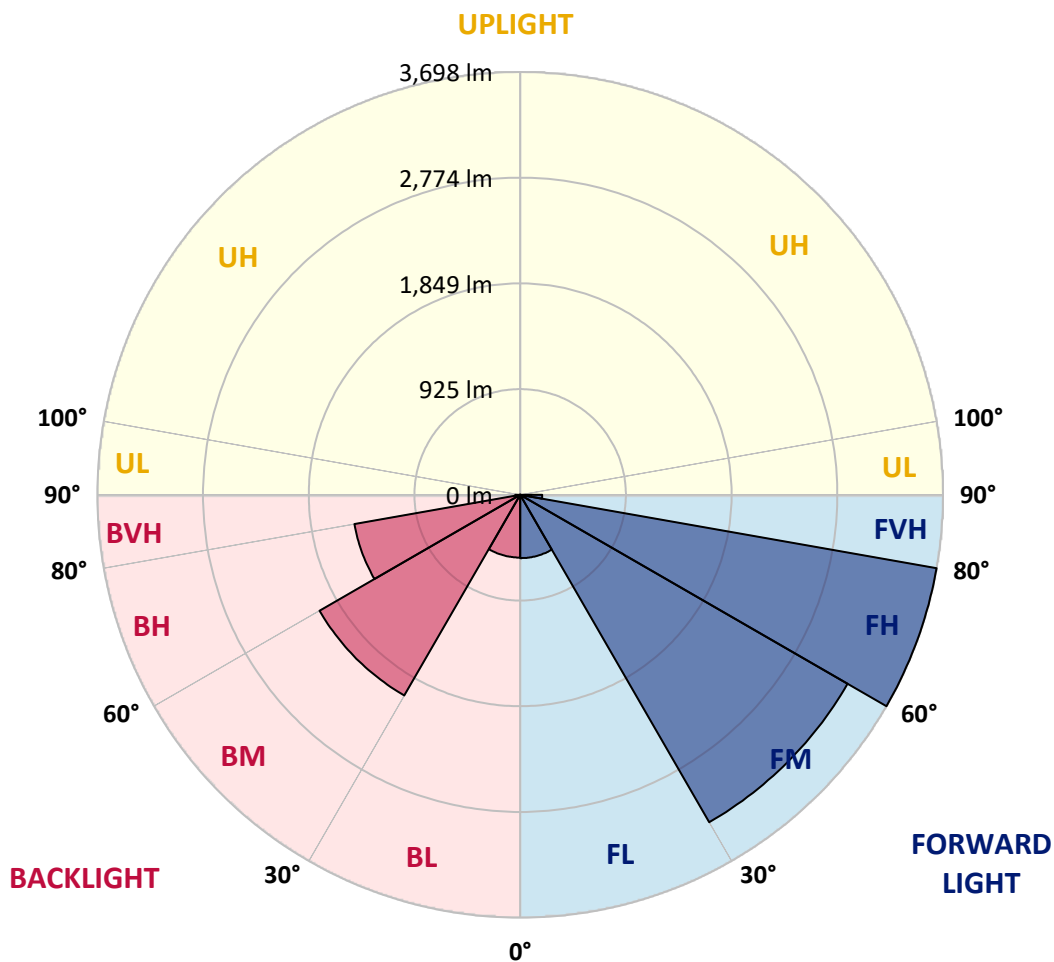
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	553.9	4.7			
FM	(30°-60°)	3306.9	27.9			
FH	(60°-80°)	3698.4	31.2			G2/5000
FVH	(80°-90°)	192.9	1.6			G2/225
BL	(0°-30°)	548.9	4.6	B2/1000		
BM	(30°-60°)	2026.3	17.1	B2/2500		
BH	(60°-80°)	1471.9	12.4	B3/2500		G3/2500
BVH	(80°-90°)	42.0	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1281.2	1286.3	1281.2	1282.4	1283.7	1282.4	1281.2	1281.2	1277.3	1279.9	1282.4
5°	1276.0	1279.9	1278.6	1279.9	1281.2	1279.9	1278.6	1279.9	1277.3	1278.6	1282.4
7.5°	1269.7	1268.4	1269.7	1272.2	1274.8	1274.8	1274.8	1276.0	1274.8	1274.8	1278.6
10°	1250.4	1251.7	1254.3	1258.1	1259.4	1263.3	1263.3	1267.1	1268.4	1270.9	1276.0
12.5°	1226.1	1227.4	1230.0	1232.6	1238.9	1245.3	1245.3	1254.3	1258.1	1264.6	1273.5
15°	1208.2	1209.5	1212.1	1214.6	1219.7	1226.1	1230.0	1240.2	1246.6	1258.1	1270.9
17.5°	1218.4	1217.2	1219.7	1221.0	1221.0	1226.1	1226.1	1233.8	1241.5	1251.7	1268.4
20°	1247.9	1247.9	1250.4	1250.4	1249.2	1251.7	1246.6	1246.6	1247.9	1253.0	1264.6
22.5°	1277.3	1276.0	1281.2	1283.7	1285.0	1288.8	1283.7	1282.4	1276.0	1272.2	1276.0
25°	1305.5	1304.2	1310.6	1314.4	1320.8	1324.7	1324.7	1324.7	1319.5	1313.1	1309.3
27.5°	1349.0	1349.0	1355.5	1359.3	1364.4	1372.0	1375.9	1375.9	1377.1	1368.2	1361.8
30°	1422.0	1423.3	1424.5	1429.7	1434.8	1437.3	1442.4	1446.2	1450.1	1445.0	1434.8
32.5°	1509.0	1501.3	1501.3	1509.0	1515.4	1523.1	1525.6	1530.7	1538.4	1534.6	1533.3
35°	1612.7	1610.1	1607.5	1610.1	1617.8	1626.7	1636.9	1646.0	1640.8	1648.5	1644.7
37.5°	1766.2	1768.8	1770.1	1770.1	1768.8	1771.4	1776.5	1785.4	1782.9	1785.4	1790.5
40°	2019.6	2010.7	2001.8	2003.0	1990.2	1992.8	1972.3	1981.3	1982.5	1973.6	1977.4
42.5°	2273.1	2278.2	2282.1	2292.3	2283.4	2278.2	2259.0	2259.0	2248.8	2239.8	2237.2
45°	2547.0	2557.2	2558.5	2579.0	2571.3	2587.9	2602.1	2598.2	2581.5	2580.3	2562.3
47.5°	2765.9	2782.5	2800.4	2824.8	2843.9	2881.0	2924.6	2946.3	2959.1	2969.3	2948.9
50°	2929.7	2937.3	2983.5	3021.8	3064.0	3125.5	3185.7	3263.7	3326.4	3355.8	3384.0
52.5°	3018.0	3037.2	3087.1	3147.3	3221.5	3313.6	3410.9	3535.1	3642.5	3714.3	3778.3
55°	3037.2	3056.4	3112.7	3189.5	3290.6	3414.7	3554.3	3723.2	3884.5	4022.7	4157.0
57.5°	2983.5	3005.2	3065.3	3153.7	3272.7	3423.7	3599.1	3820.5	4043.2	4267.2	4465.5
60°	2884.9	2911.7	2966.8	3053.8	3185.7	3355.8	3565.8	3843.6	4155.8	4498.8	4878.9
62.5°	2722.3	2750.5	2801.7	2897.7	3033.3	3221.5	3464.7	3810.3	4251.8	4791.9	5466.5
65°	2461.2	2474.1	2536.8	2634.1	2754.3	2961.7	3229.1	3646.4	4221.0	4972.4	5901.6
66°	2343.5	2365.2	2403.6	2481.7	2596.9	2791.5	3060.2	3483.8	4104.6	4909.7	5890.1
67.5°	2159.2	2175.8	2201.4	2253.9	2324.3	2467.6	2722.3	3122.9	3748.8	4592.2	5645.6
70°	1745.8	1753.4	1788.0	1806.0	1830.2	1877.6	1969.8	2200.1	2687.7	3480.0	4556.4
72.5°	1190.3	1212.1	1249.2	1300.4	1366.9	1430.9	1474.4	1503.9	1608.8	2076.0	3035.9
75°	872.8	895.9	943.3	1011.1	1127.5	1260.7	1398.9	1462.9	1419.4	1359.3	1690.7
77.5°	506.8	537.6	577.2	642.5	750.1	926.6	1163.4	1373.3	1515.4	1524.4	1447.5
80°	213.8	217.6	241.9	275.2	341.8	465.9	650.1	952.3	1267.1	1479.5	1529.5
82.5°	48.7	60.2	76.8	90.9	111.3	153.6	227.8	378.9	684.7	1073.9	1400.2
85°	18.0	18.0	24.3	35.8	40.9	46.0	60.2	96.0	163.8	302.0	629.7
87.5°	0.0	1.3	2.6	2.6	5.1	6.4	10.2	14.0	12.8	11.5	38.4
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1279.9	1278.6	1276.0	1276.0	1276.0	1276.0	1273.5	1274.8	1272.2	1273.5	1273.5
5°	1278.6	1278.6	1277.3	1274.8	1276.0	1276.0	1277.3	1274.8	1274.8	1276.0	1274.8
7.5°	1278.6	1277.3	1277.3	1277.3	1278.6	1277.3	1278.6	1278.6	1278.6	1279.9	1279.9
10°	1278.6	1278.6	1281.2	1282.4	1282.4	1283.7	1287.5	1287.5	1288.8	1290.1	1292.7
12.5°	1279.9	1285.0	1288.8	1292.7	1294.0	1296.6	1302.9	1302.9	1305.5	1309.3	1310.6
15°	1281.2	1288.8	1296.6	1299.1	1301.7	1306.8	1313.1	1315.7	1319.5	1323.4	1326.0
17.5°	1279.9	1290.1	1299.1	1302.9	1306.8	1313.1	1320.8	1323.4	1328.6	1333.7	1338.8
20°	1278.6	1292.7	1306.8	1311.9	1317.0	1326.0	1336.2	1342.6	1347.7	1355.5	1360.6
22.5°	1286.3	1302.9	1322.1	1329.8	1338.8	1350.2	1364.4	1372.0	1378.4	1386.1	1390.0
25°	1310.6	1323.4	1346.4	1359.3	1370.8	1390.0	1409.1	1418.1	1425.8	1432.2	1433.5
27.5°	1351.5	1355.5	1383.5	1400.2	1416.8	1447.5	1470.6	1477.0	1491.1	1496.2	1494.9
30°	1418.1	1411.7	1434.8	1460.4	1484.7	1526.9	1555.1	1571.7	1584.5	1584.5	1574.2
32.5°	1514.1	1503.9	1510.2	1539.7	1567.8	1629.3	1662.6	1684.4	1693.3	1690.7	1668.9
35°	1639.5	1633.1	1629.3	1652.4	1697.1	1768.8	1812.3	1823.8	1838.0	1835.4	1807.2
37.5°	1788.0	1782.9	1782.9	1809.8	1853.3	1959.5	2006.9	2014.5	2013.3	1992.8	1940.3
40°	1963.4	1960.8	1949.3	1964.7	2001.8	2140.0	2204.0	2214.2	2200.1	2166.9	2105.4
42.5°	2215.5	2200.1	2164.3	2173.2	2201.4	2335.8	2419.0	2447.2	2433.0	2399.8	2299.9
45°	2544.4	2527.8	2467.6	2459.9	2475.3	2593.0	2700.6	2707.0	2704.4	2662.2	2544.4
47.5°	2931.0	2905.3	2841.3	2820.9	2815.7	2924.6	3028.2	3038.4	3032.0	2969.3	2811.9
50°	3349.5	3312.4	3270.2	3256.0	3235.6	3313.6	3418.6	3419.8	3394.3	3307.3	3160.0
52.5°	3796.1	3783.4	3775.7	3761.6	3752.7	3820.5	3884.5	3846.1	3807.7	3716.8	3588.9
55°	4246.7	4299.2	4353.0	4358.1	4373.4	4446.4	4445.1	4340.1	4311.9	4262.1	4135.4
57.5°	4725.3	4919.9	5088.9	5141.3	5192.5	5328.2	5315.4	5211.8	5175.8	5114.4	5009.5
60°	5376.9	5901.6	6389.2	6505.7	6586.4	6748.9	6733.5	6573.5	6647.8	6642.6	6506.9
62.5°	6289.3	7162.3	7893.1	8072.2	8128.6	8146.5	8049.3	7876.4	7949.4	8031.3	7614.1
65°	6907.6	7934.0	8684.1	8822.3	8830.0	8616.2	8400.0	8196.4	8178.5	8108.1	7511.7
66°	6921.6	7972.4	8725.0	8859.4	8812.1	8520.2	8246.4	8041.5	7953.3	7798.4	7180.2
67.5°	6673.3	7733.1	8543.3	8685.4	8581.6	8168.2	7790.7	7527.0	7354.3	7103.4	6558.2
70°	5604.7	6655.4	7653.7	7918.7	7952.0	7335.0	6811.6	6501.8	6268.9	5924.6	5454.9
72.5°	4167.3	5117.0	5997.5	6251.0	6380.2	5887.5	5445.9	5210.5	4891.8	4529.5	4195.5
75°	2612.3	3282.9	3873.0	4050.8	3929.2	3547.8	3282.9	3184.4	2870.8	2654.5	2502.2
77.5°	1493.6	1703.5	1750.9	1683.1	1539.7	1178.8	838.3	620.7	538.8	596.5	657.9
80°	1457.8	1336.2	1064.8	936.8	848.6	583.6	343.0	235.5	195.8	200.9	217.6
82.5°	1579.4	1694.6	1395.1	1137.9	954.8	645.0	355.8	189.4	128.0	151.1	170.2
85°	1026.5	1428.4	1286.3	1084.1	878.1	551.6	293.1	98.5	65.3	85.8	117.8
87.5°	103.6	114.0	97.3	131.8	98.5	46.0	23.1	14.0	12.8	15.3	23.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1274.8	1274.8	1276.0	1277.3	1278.6	1279.9	1279.9	1279.9	1279.9	1282.4	1281.2
5°	1277.3	1279.9	1282.4	1283.7	1286.3	1286.3	1290.1	1288.8	1288.8	1292.7	1294.0
7.5°	1282.4	1286.3	1291.4	1290.1	1295.3	1294.0	1296.6	1296.6	1292.7	1294.0	1291.4
10°	1294.0	1299.1	1301.7	1297.8	1299.1	1294.0	1292.7	1286.3	1278.6	1274.8	1269.7
12.5°	1313.1	1318.3	1318.3	1311.9	1304.2	1292.7	1283.7	1269.7	1258.1	1251.7	1245.3
15°	1329.8	1334.9	1333.7	1323.4	1311.9	1294.0	1281.2	1264.6	1247.9	1237.7	1231.3
17.5°	1342.6	1345.1	1341.3	1327.3	1314.4	1297.8	1285.0	1267.1	1247.9	1235.1	1223.5
20°	1361.8	1359.3	1350.2	1332.4	1318.3	1302.9	1292.7	1277.3	1255.5	1238.9	1222.3
22.5°	1390.0	1379.7	1363.1	1343.9	1329.8	1315.7	1305.5	1288.8	1267.1	1246.6	1227.4
25°	1427.1	1406.6	1383.5	1363.1	1350.2	1334.9	1323.4	1305.5	1282.4	1259.4	1236.4
27.5°	1480.8	1445.0	1415.5	1397.7	1383.5	1364.4	1350.2	1327.3	1302.9	1276.0	1250.4
30°	1541.0	1492.4	1464.2	1450.1	1434.8	1414.2	1392.6	1363.1	1334.9	1305.5	1274.8
32.5°	1619.1	1560.2	1533.3	1519.3	1498.7	1473.1	1447.5	1414.2	1374.6	1336.2	1299.1
35°	1721.5	1661.3	1633.1	1611.4	1583.3	1550.0	1512.8	1468.0	1414.2	1363.1	1315.7
37.5°	1831.5	1766.2	1739.4	1716.3	1674.1	1630.6	1578.1	1512.8	1439.9	1372.0	1313.1
40°	1971.0	1910.9	1876.3	1836.7	1786.7	1711.2	1629.3	1534.6	1441.1	1358.0	1288.8
42.5°	2147.6	2087.5	2036.3	1973.6	1886.5	1770.1	1653.6	1530.7	1418.1	1323.4	1249.2
45°	2381.9	2308.9	2220.6	2110.5	1969.8	1807.2	1654.9	1506.4	1374.6	1269.7	1190.3
47.5°	2668.6	2557.2	2412.6	2227.0	2024.8	1817.4	1634.4	1457.8	1306.8	1192.8	1104.6
50°	3009.0	2833.7	2595.6	2323.0	2052.9	1802.1	1583.3	1384.8	1210.8	1089.2	984.2
52.5°	3398.1	3111.5	2760.8	2392.1	2051.6	1750.9	1496.2	1274.8	1085.3	949.7	849.9
55°	3855.0	3428.9	2931.0	2443.3	2015.8	1656.2	1363.1	1119.9	930.5	805.0	712.9
57.5°	4524.4	3943.4	3227.9	2522.6	1944.2	1510.2	1182.6	934.3	767.9	648.9	570.8
60°	5748.0	4802.2	3762.9	2682.6	1834.1	1296.6	971.4	735.9	596.5	500.5	448.0
62.5°	6669.5	5466.5	4052.1	2646.8	1612.7	1032.8	720.6	536.3	439.0	373.8	340.5
65°	6537.7	5260.3	3743.7	2279.5	1264.6	728.3	478.7	364.7	302.0	271.4	252.1
66°	6239.5	4991.6	3476.2	2051.6	1093.0	605.4	394.2	305.9	259.8	238.0	225.3
67.5°	5673.8	4492.4	2997.5	1681.8	839.6	439.0	296.9	241.9	211.2	202.2	193.3
70°	4716.4	3582.4	2104.1	979.1	428.7	244.5	188.2	168.9	161.3	160.0	157.4
72.5°	3614.4	2535.5	1238.9	463.4	222.7	162.5	145.9	139.5	136.9	136.9	138.2
75°	2215.5	1424.5	547.8	226.5	156.2	136.9	129.3	126.7	125.4	126.7	125.4
77.5°	739.8	453.1	234.2	171.5	142.0	126.7	121.6	119.1	119.1	119.1	119.1
80°	226.5	197.1	179.2	158.7	134.4	120.3	112.7	111.3	112.7	114.0	110.0
82.5°	170.2	161.3	151.1	140.7	121.6	107.5	104.9	104.9	104.9	101.1	96.0
85°	125.4	124.2	102.4	96.0	89.6	89.6	89.6	89.6	85.8	79.3	74.2
87.5°	23.1	21.8	23.1	24.3	35.8	38.4	38.4	40.9	44.8	42.2	42.2
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):

	160°	165°	170°	175°	180°
0°	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1281.2	1279.9	1283.7	1281.2	1282.4
5°	1292.7	1291.4	1294.0	1291.4	1295.3
7.5°	1288.8	1286.3	1285.0	1286.3	1287.5
10°	1262.0	1259.4	1258.1	1256.8	1258.1
12.5°	1238.9	1233.8	1233.8	1231.3	1232.6
15°	1222.3	1218.4	1217.2	1214.6	1215.9
17.5°	1214.6	1208.2	1205.7	1203.1	1203.1
20°	1209.5	1201.8	1198.0	1195.4	1194.1
22.5°	1209.5	1198.0	1192.8	1190.3	1189.0
25°	1214.6	1200.6	1192.8	1189.0	1187.7
27.5°	1224.8	1207.0	1198.0	1192.8	1192.8
30°	1242.8	1219.7	1207.0	1200.6	1199.3
32.5°	1260.7	1230.0	1212.1	1204.4	1201.8
35°	1269.7	1230.0	1208.2	1195.4	1192.8
37.5°	1259.4	1213.3	1186.4	1167.3	1163.4
40°	1227.4	1178.8	1149.3	1131.4	1128.8
42.5°	1185.2	1137.9	1103.3	1090.4	1086.6
45°	1127.5	1071.3	1036.8	1018.8	1020.1
47.5°	1029.0	971.4	940.7	924.1	926.6
50°	912.6	856.3	829.4	811.4	815.3
52.5°	784.6	733.4	707.8	698.8	696.3
55°	650.1	610.5	592.6	582.3	578.5
57.5°	527.4	499.2	486.3	473.6	474.8
60°	416.0	401.9	398.0	384.0	382.7
62.5°	327.6	318.7	314.9	304.7	305.9
65°	248.3	245.8	248.3	241.9	244.5
66°	224.0	225.3	225.3	221.4	224.0
67.5°	193.3	195.8	199.6	195.8	198.4
70°	160.0	162.5	165.1	165.1	165.1
72.5°	139.5	142.0	143.3	143.3	143.3
75°	128.0	129.3	130.5	128.0	128.0
77.5°	120.3	120.3	117.8	116.5	115.2
80°	108.7	107.5	103.6	101.1	101.1
82.5°	90.9	88.3	85.8	82.0	82.0
85°	69.1	66.5	64.0	58.9	56.3
87.5°	35.8	37.1	35.8	29.4	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)