

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: P180413

Luminaire Tested: **ICM-F06-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180413
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F06-LED-E1-SL2-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8448.4 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5
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

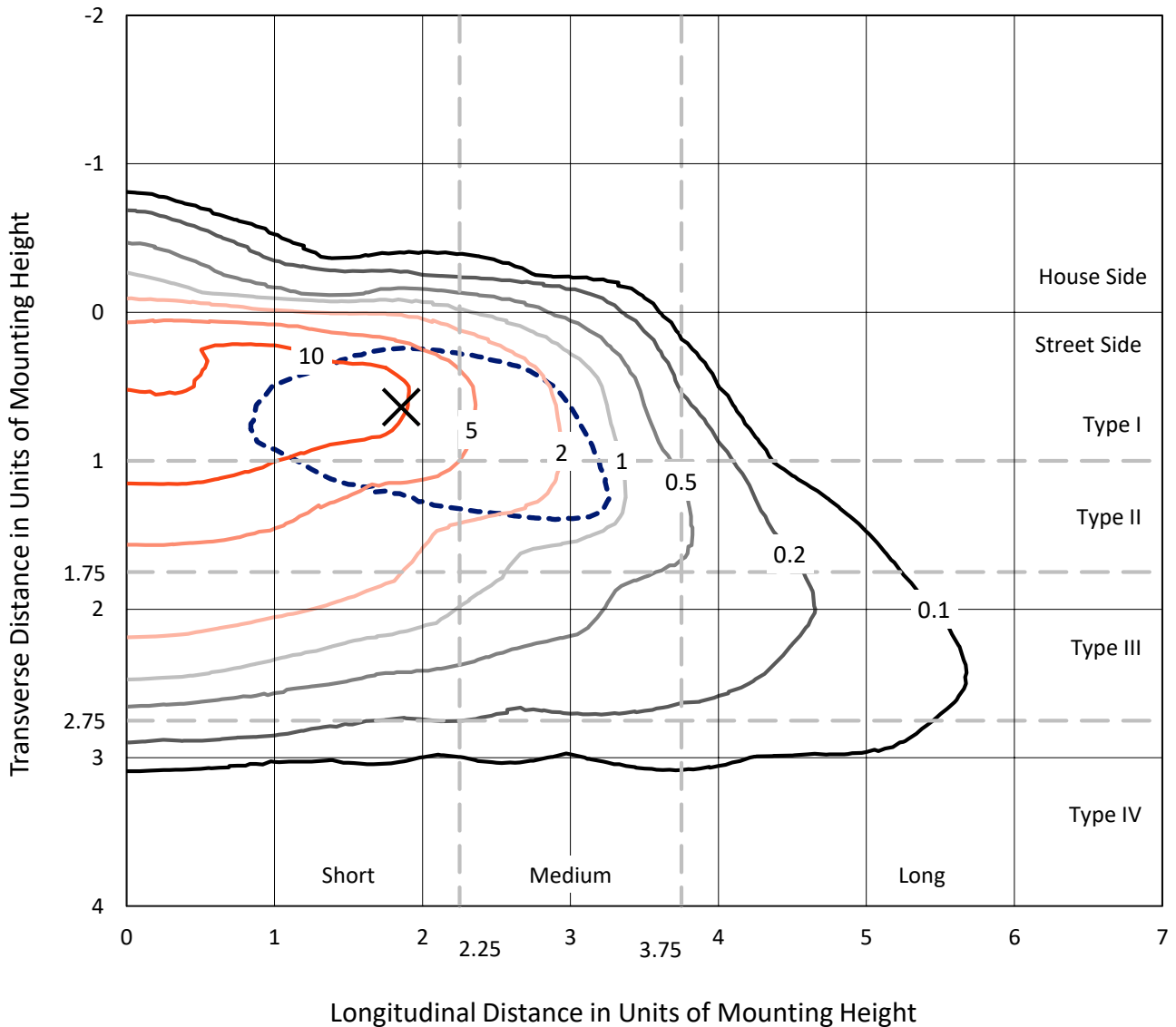


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

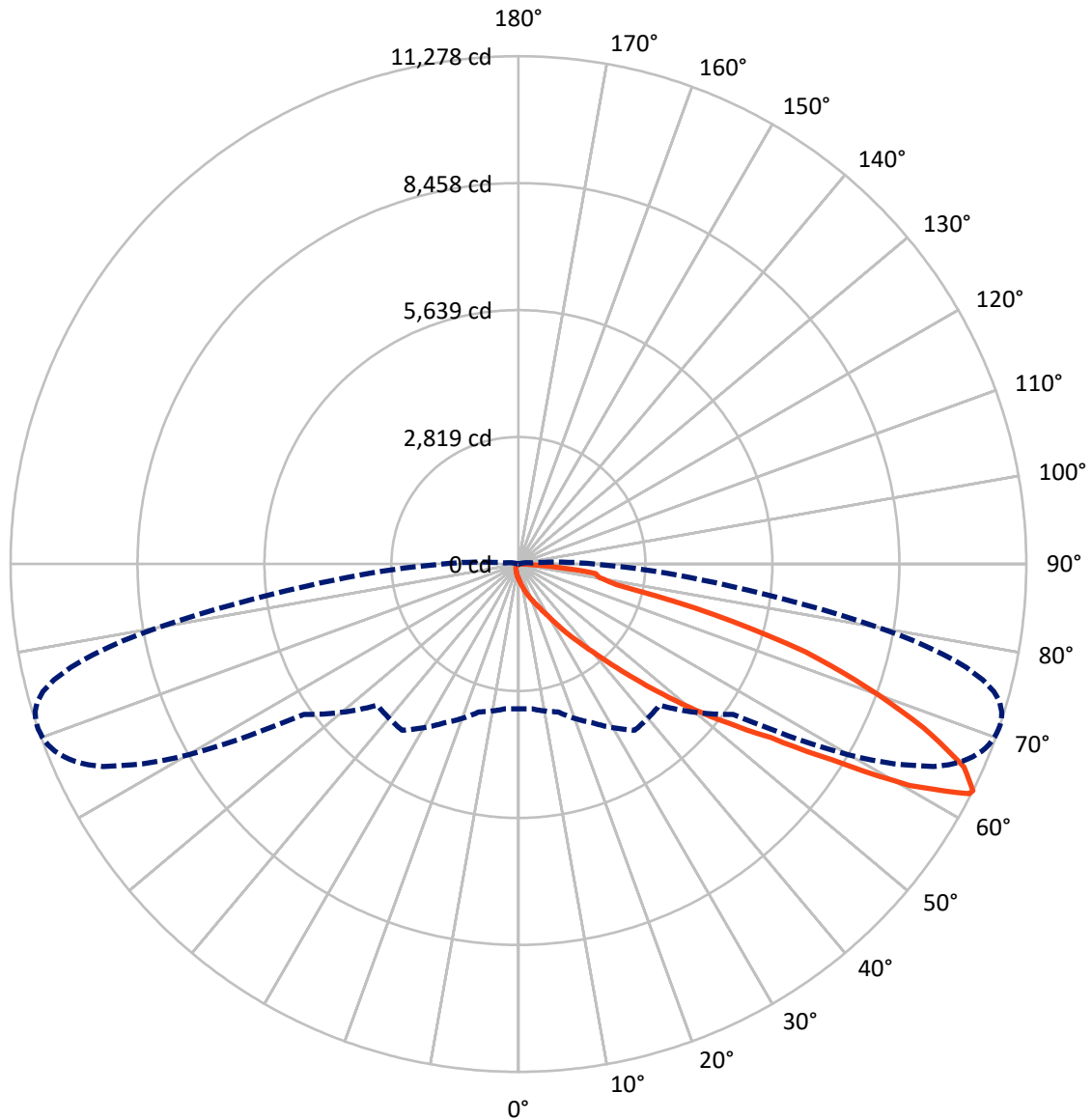


Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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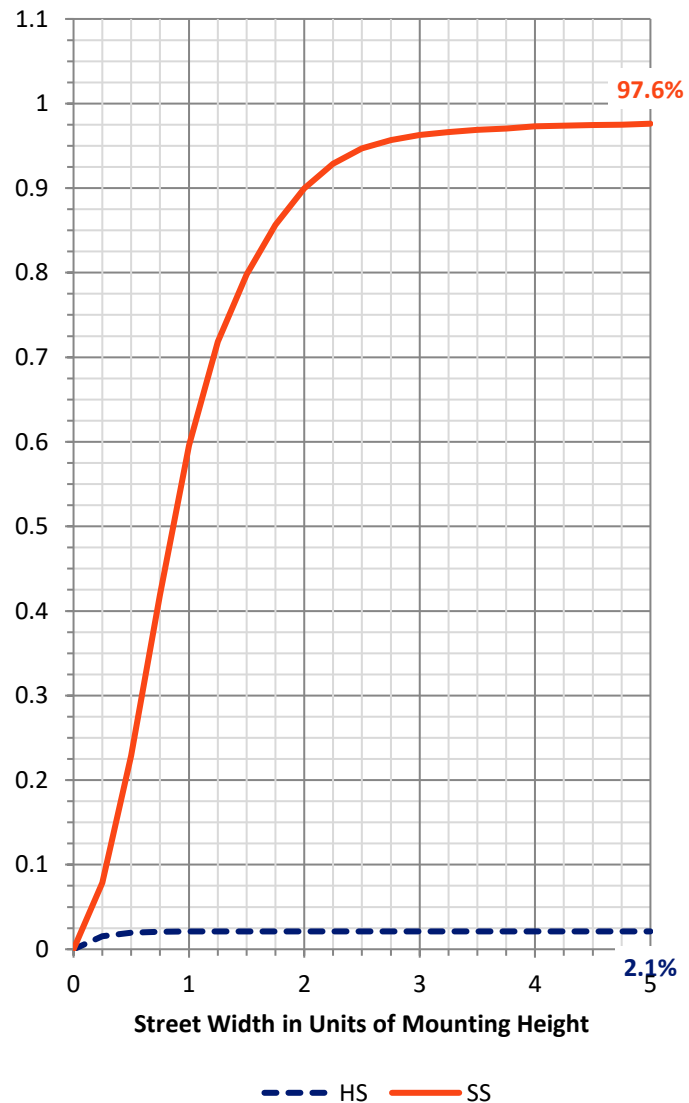
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	179.4	0.0	179.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8269.0	0.0	8269.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	8448.4	0.0	8448.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	0.4
10°-20°	138.9	1.6
20°-30°	282.2	3.3
30°-40°	689.4	8.2
40°-50°	1541.7	18.2
50°-60°	2167.8	25.7
60°-70°	2549.1	30.2
70°-80°	920.5	10.9
80°-90°	123.1	1.5
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°	8448.4	100.0
0°-180°	8448.4	100.0



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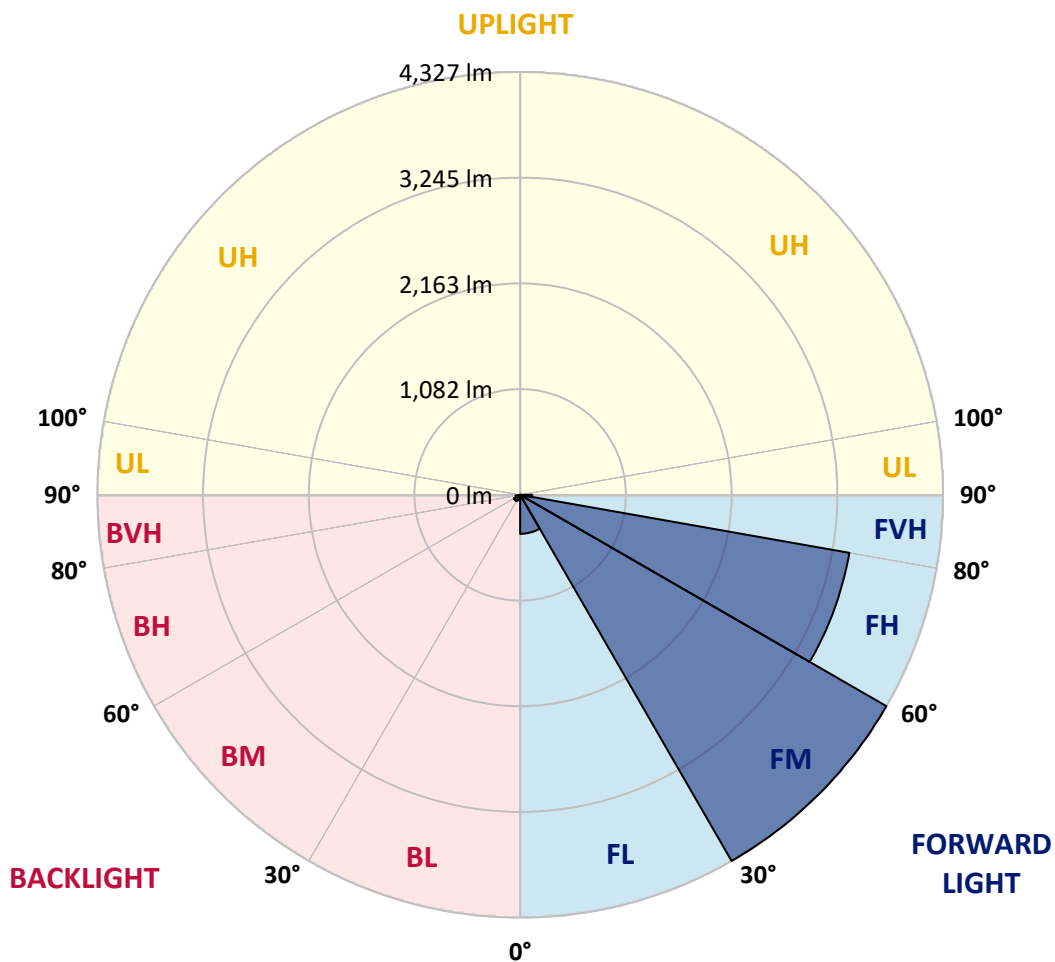
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.2	4.7			
FM	(30°-60°)	4326.6	51.2			
FH	(60°-80°)	3420.4	40.5			G2/5000
FVH	(80°-90°)	122.8	1.5			G2/225
BL	(0°-30°)	57.7	0.7	B0/110		
BM	(30°-60°)	72.3	0.9	B0/220		
BH	(60°-80°)	49.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1
2.5°	423.9	428.5	425.4	417.8	408.6	396.3	385.5	385.5	384.0	379.4	380.9
5°	556.0	557.5	551.4	532.9	516.1	490.0	460.7	457.7	454.6	450.0	448.5
7.5°	685.0	691.2	685.0	665.0	631.3	591.4	545.2	540.7	531.4	531.4	525.3
10°	817.1	817.1	811.0	787.9	757.2	700.4	642.0	634.3	623.5	620.5	611.3
12.5°	910.8	910.8	907.7	895.4	870.8	820.2	749.5	741.9	728.0	723.4	712.7
15°	947.6	947.6	949.1	959.9	961.5	938.4	864.7	858.5	844.7	832.5	827.8
17.5°	970.7	969.1	969.1	984.5	1012.1	1027.5	979.9	973.8	958.4	952.3	936.8
20°	1021.3	1018.2	1009.0	1009.0	1035.2	1088.9	1088.9	1087.4	1070.5	1065.9	1058.2
22.5°	1096.6	1093.5	1065.9	1042.9	1055.2	1122.7	1185.7	1182.6	1176.5	1170.3	1165.7
25°	1219.4	1208.8	1161.1	1093.5	1082.8	1155.0	1259.4	1267.1	1271.7	1271.7	1274.8
27.5°	1405.3	1391.5	1307.0	1181.1	1133.5	1207.2	1340.8	1356.2	1370.0	1373.0	1386.9
30°	1663.4	1638.8	1517.4	1333.1	1224.1	1284.0	1460.6	1477.5	1497.5	1503.6	1525.1
32.5°	2087.3	2073.4	1956.7	1680.2	1446.8	1434.5	1628.0	1649.5	1675.6	1686.4	1712.5
35°	2732.3	2735.4	2640.2	2391.4	2068.8	1899.8	1927.5	1946.0	1955.2	1987.5	2001.2
37.5°	3170.1	3177.7	3199.2	3100.9	2870.5	2698.5	2482.0	2502.0	2454.3	2458.9	2460.5
40°	3409.6	3434.2	3560.1	3655.4	3637.0	3537.1	3363.6	3374.3	3285.2	3265.2	3168.5
42.5°	3569.3	3601.6	3802.8	4097.7	4248.2	4338.8	4298.9	4294.3	4225.1	4199.1	4117.7
45°	3669.2	3698.3	3951.8	4386.4	4733.5	4997.7	5106.7	5119.0	5060.7	5034.5	4967.0
47.5°	3664.6	3698.3	3970.3	4494.0	5005.4	5427.8	5734.9	5750.3	5785.6	5762.5	5767.2
50°	3461.9	3494.1	3767.5	4311.2	4925.5	5624.3	6186.5	6235.7	6292.5	6330.8	6349.2
52.5°	3216.1	3239.2	3481.8	3997.9	4584.6	5542.9	6453.7	6538.2	6622.6	6694.8	6745.5
55°	3125.5	3151.6	3342.1	3770.5	4311.2	5202.0	6578.1	6702.6	6822.4	6940.6	7037.3
57.5°	3173.1	3197.7	3334.3	3663.1	4148.4	4842.6	6613.4	6807.0	7003.6	7195.6	7386.0
60°	3348.2	3374.3	3491.0	3762.9	4105.4	4635.3	6475.2	6796.2	7123.4	7458.2	7773.1
62.5°	3279.1	3289.8	3461.9	3938.0	4412.6	4458.6	5973.0	6421.4	6920.6	7436.7	7945.1
63°	3213.0	3225.3	3400.4	3890.3	4506.3	4432.5	5817.9	6290.9	6817.7	7373.7	7926.7
65°	2913.5	2915.1	3048.7	3435.7	4401.8	4478.6	5126.7	5578.3	6183.4	6850.0	7548.8
67.5°	2174.8	2164.0	2293.0	2587.9	3455.7	4480.1	4400.3	4653.7	5074.5	5665.8	6292.5
70°	771.0	754.1	963.0	1371.5	2153.3	3664.6	3781.3	3798.2	3914.9	4234.4	4627.6
72.5°	250.3	255.0	307.2	502.2	992.2	2466.6	3423.5	3371.3	3340.5	3339.0	3391.2
75°	99.8	101.4	122.9	222.7	445.4	1188.8	2998.0	3027.2	3038.0	3053.3	3070.2
77.5°	47.6	52.2	69.1	124.4	221.2	588.3	2145.6	2392.9	2534.2	2643.3	2709.3
80°	16.9	20.0	38.4	76.8	102.9	270.3	1130.4	1363.8	1571.2	1838.4	2068.8
82.5°	0.0	0.0	7.7	53.8	56.8	109.0	463.8	543.7	622.1	806.3	1035.2
85°	0.0	0.0	0.0	15.3	16.9	18.4	156.7	188.9	211.9	247.3	285.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	9.2	23.1	35.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1
2.5°	377.9	376.3	376.3	373.2	371.7	368.7	367.1	362.4	360.9	360.9	360.9
5°	447.0	440.8	437.7	430.0	425.4	423.9	416.2	413.1	408.6	410.0	402.4
7.5°	523.7	513.0	508.4	497.6	494.5	483.8	480.7	473.0	468.5	459.3	456.2
10°	608.2	594.4	586.7	569.8	565.2	557.5	548.3	539.1	531.4	522.2	517.6
12.5°	704.9	692.7	686.5	663.5	652.7	642.0	629.7	617.4	605.1	597.5	586.7
15°	818.6	798.6	792.5	771.0	752.6	738.8	721.9	706.5	697.3	682.0	671.2
17.5°	930.7	910.8	906.1	873.9	854.0	844.7	826.3	806.3	789.4	774.1	757.2
20°	1042.9	1029.0	1016.8	986.1	964.6	949.1	924.6	904.7	890.8	869.3	847.8
22.5°	1155.0	1141.1	1131.9	1099.7	1079.7	1058.2	1036.8	1015.2	995.3	969.1	944.6
25°	1270.1	1260.9	1256.4	1227.2	1208.8	1188.8	1167.3	1142.7	1118.1	1088.9	1062.8
27.5°	1390.0	1393.0	1383.8	1377.7	1357.7	1343.9	1310.1	1293.2	1274.8	1239.4	1207.2
30°	1542.1	1551.3	1548.2	1552.8	1540.5	1531.3	1505.1	1483.6	1462.1	1428.4	1391.5
32.5°	1734.0	1746.2	1752.4	1769.3	1763.2	1760.1	1752.4	1721.7	1706.3	1648.0	1632.7
35°	2030.4	2024.3	2050.4	2064.2	2058.1	2055.0	2045.8	2028.8	2010.4	1968.9	1930.6
37.5°	2415.9	2422.1	2431.3	2403.6	2385.2	2383.6	2356.0	2339.1	2313.0	2266.9	2220.9
40°	3122.4	3084.0	3041.0	2924.3	2873.6	2844.4	2763.0	2740.0	2695.5	2632.5	2584.9
42.5°	4040.9	4002.4	3873.4	3678.4	3574.0	3429.6	3363.6	3282.2	3219.2	3116.3	3060.9
45°	4953.1	4842.6	4827.2	4599.9	4470.9	4280.5	4162.2	4025.5	3882.7	3747.6	3649.2
47.5°	5722.6	5698.1	5622.8	5484.6	5364.8	5205.1	5053.1	4842.6	4695.2	4503.2	4326.5
50°	6338.6	6337.0	6309.3	6229.5	6129.6	6000.7	5867.0	5688.9	5521.4	5286.5	5097.5
52.5°	6799.3	6823.9	6833.1	6808.5	6770.1	6656.5	6588.9	6439.9	6298.6	6098.9	5894.6
55°	7137.2	7227.8	7273.9	7326.1	7315.4	7275.4	7272.3	7175.6	7111.1	6952.9	6808.5
57.5°	7554.9	7704.0	7846.7	8100.1	8109.4	8198.5	8244.5	8290.7	8302.9	8240.0	8192.3
60°	8086.4	8390.5	8660.8	9190.7	9328.9	9546.9	9688.2	9841.8	9972.4	9983.1	9980.1
62.5°	8461.1	8929.5	9365.7	10152.1	10420.9	10672.7	10861.6	11010.7	11101.3	11193.5	11236.4
63°	8471.9	8984.8	9448.7	10259.6	10542.2	10781.8	10961.5	11099.7	11195.0	11250.2	11277.9
65°	8212.3	8834.3	9387.2	10195.1	10460.8	10701.9	10795.6	10886.2	10932.3	10953.8	10872.4
67.5°	6960.6	7568.8	8213.8	9116.9	9344.2	9633.0	9709.7	9755.9	9777.4	9772.7	9703.6
70°	5205.1	5715.0	6432.2	7464.3	7765.3	8048.0	8223.0	8298.3	8322.8	8315.2	8212.3
72.5°	3633.9	3933.3	4524.7	5673.5	6083.6	6446.1	6662.6	6774.7	6797.7	6751.7	6656.5
75°	3051.7	3067.1	3200.8	3829.0	4212.9	4599.9	4844.1	4914.8	4868.7	4729.0	4486.3
77.5°	2724.7	2758.4	2758.4	2852.1	2927.4	3034.9	3057.9	2885.9	2686.2	2428.2	2219.4
80°	2285.4	2403.6	2486.5	2555.6	2563.4	2541.9	2485.0	2388.3	2234.7	2038.1	1820.0
82.5°	1388.4	1621.9	1717.1	2073.4	2248.5	2366.8	2357.6	2228.6	2111.8	1907.5	1721.7
85°	350.1	377.9	410.0	532.9	597.5	729.5	812.5	850.9	864.7	794.1	718.8
87.5°	33.8	23.1	38.4	29.2	41.5	30.7	41.5	38.4	47.6	50.7	55.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1
2.5°	357.9	356.3	354.8	353.2	351.7	350.1	347.1	347.1	344.0	342.5	340.9
5°	397.8	394.7	393.2	390.1	385.5	382.4	377.9	371.7	367.1	365.5	362.4
7.5°	448.5	440.8	437.7	433.1	427.0	417.8	411.6	407.0	399.4	394.7	385.5
10°	505.3	497.6	488.4	479.2	470.0	459.3	451.5	445.4	433.1	427.0	416.2
12.5°	577.5	563.6	552.9	540.7	528.4	516.1	506.8	488.4	477.7	463.8	454.6
15°	651.2	638.9	626.6	611.3	592.8	572.8	563.6	546.8	532.9	511.4	499.2
17.5°	740.3	717.2	698.8	680.4	663.5	645.0	626.6	600.6	580.6	562.1	537.6
20°	827.8	800.2	780.2	755.6	731.1	701.9	680.4	662.0	634.3	609.8	583.6
22.5°	921.5	893.9	861.6	837.0	803.3	780.2	751.1	720.3	692.7	660.5	628.2
25°	1035.2	1006.0	969.1	936.8	898.5	866.2	830.9	795.5	761.8	724.9	683.4
27.5°	1175.0	1144.2	1104.3	1065.9	1015.2	975.3	941.5	893.9	850.9	804.8	757.2
30°	1351.5	1317.8	1268.7	1213.3	1162.6	1118.1	1070.5	1007.5	959.9	904.7	843.2
32.5°	1582.0	1542.1	1476.0	1423.7	1360.8	1302.4	1236.4	1173.4	1105.9	1033.7	963.0
35°	1872.2	1835.4	1758.6	1681.8	1612.7	1543.5	1460.6	1388.4	1293.2	1205.7	1115.1
37.5°	2173.2	2107.2	2036.6	1953.6	1867.6	1784.7	1683.4	1583.5	1474.4	1379.2	1265.6
40°	2517.3	2437.4	2379.1	2290.0	2168.7	2050.4	1956.7	1832.3	1695.6	1568.1	1434.5
42.5°	2988.8	2899.7	2795.3	2660.1	2572.6	2434.3	2313.0	2165.6	1985.9	1843.1	1681.8
45°	3534.1	3412.7	3311.4	3180.8	3074.8	2902.8	2761.5	2564.9	2385.2	2197.9	2001.2
47.5°	4156.0	4005.5	3858.1	3729.0	3560.1	3391.2	3211.5	3002.6	2772.2	2566.4	2332.9
50°	4870.3	4656.8	4452.5	4286.6	4054.7	3859.7	3664.6	3429.6	3174.6	2938.2	2672.4
52.5°	5664.3	5417.1	5146.7	4891.8	4623.0	4372.6	4137.6	3867.3	3583.2	3294.4	2998.0
55°	6622.6	6436.8	6118.9	5794.8	5435.5	5100.6	4798.1	4463.3	4117.7	3738.3	3426.5
57.5°	8123.2	8032.6	7766.9	7442.8	6974.4	6567.4	6054.4	5644.3	5143.7	4621.4	4219.0
60°	10156.7	10044.6	9895.6	9633.0	9261.3	8708.4	8143.2	7505.8	6744.0	6020.6	5334.1
62.5°	11241.0	11201.1	11079.8	10898.5	10551.4	10115.2	9545.5	8845.1	7985.0	7106.5	6231.0
63°	11273.3	11222.6	11118.1	10933.8	10628.3	10205.8	9646.8	8966.4	8124.8	7229.3	6335.5
65°	10837.1	10817.1	10711.1	10509.9	10301.1	9978.6	9545.5	8960.2	8253.7	7407.5	6518.3
67.5°	9611.5	9551.6	9388.8	9327.3	9181.5	8957.2	8626.9	8224.6	7719.3	7054.3	6286.3
70°	8129.4	8040.2	7836.0	7726.9	7548.8	7407.5	7206.3	6919.1	6607.3	6143.5	5570.6
72.5°	6558.2	6373.9	6186.5	5902.4	5653.5	5401.6	5178.9	4976.2	4633.7	4446.4	4011.7
75°	4259.0	3924.1	3603.2	3173.1	2786.1	2443.5	2110.2	1941.3	1589.6	1446.8	1242.5
77.5°	2021.2	1833.9	1582.0	1386.9	1138.1	929.2	758.7	569.8	447.0	350.1	267.3
80°	1631.1	1472.9	1320.8	1144.2	956.8	763.4	585.1	437.7	310.2	215.0	152.1
82.5°	1454.4	1282.4	1095.1	973.8	846.2	692.7	568.3	463.8	342.5	250.3	170.5
85°	565.2	476.1	367.1	299.5	233.5	192.0	173.6	119.8	93.7	73.8	56.8
87.5°	49.1	39.9	32.3	21.5	23.1	12.3	13.9	9.2	7.7	7.7	6.1
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1
2.5°	339.4	337.9	336.4	333.3	333.3	330.2	328.7	327.2	319.4	302.6	288.7
5°	356.3	353.2	350.1	345.6	342.5	337.9	334.8	330.2	313.3	281.0	253.4
7.5°	380.9	374.8	370.1	360.9	356.3	350.1	345.6	337.9	310.2	261.1	222.7
10°	410.0	399.4	391.6	380.9	371.7	364.0	356.3	345.6	307.2	239.6	195.1
12.5°	445.4	433.1	417.8	405.5	393.2	382.4	371.7	357.9	302.6	221.2	173.6
15°	480.7	462.3	451.5	434.6	417.8	402.4	387.1	374.8	304.1	201.2	155.2
17.5°	520.7	502.2	479.2	460.7	442.3	422.3	403.9	379.4	296.5	185.9	141.3
20°	559.1	532.9	511.4	488.4	462.3	437.7	414.7	393.2	290.2	170.5	129.0
22.5°	600.6	569.8	542.1	513.0	480.7	453.1	425.4	397.8	279.5	156.7	118.2
25°	651.2	615.9	575.9	540.7	506.8	473.0	437.7	403.9	268.7	144.4	110.6
27.5°	712.7	666.6	626.6	582.1	534.5	491.4	453.1	416.2	258.0	135.2	102.9
30°	791.0	737.2	680.4	623.5	572.8	523.7	470.0	423.9	247.3	126.0	95.3
32.5°	895.4	827.8	758.7	692.7	625.1	562.1	505.3	445.4	241.1	118.2	87.5
35°	1033.7	946.1	861.6	778.7	697.3	620.5	546.8	479.2	241.1	109.0	78.3
37.5°	1164.2	1062.8	955.4	852.4	755.6	666.6	579.0	497.6	228.8	101.4	70.6
40°	1305.5	1184.2	1058.2	936.8	820.2	709.6	609.8	516.1	218.0	92.2	63.0
42.5°	1522.1	1368.5	1204.1	1062.8	923.1	786.3	662.0	551.4	204.3	83.0	55.3
45°	1806.2	1611.2	1417.6	1245.6	1067.4	900.0	752.6	615.9	201.2	75.3	47.6
47.5°	2110.2	1879.9	1652.6	1432.9	1224.1	1029.0	852.4	688.1	201.2	67.5	41.5
50°	2412.9	2124.1	1881.4	1626.5	1391.5	1161.1	950.7	763.4	202.7	61.4	33.8
52.5°	2686.2	2377.5	2105.7	1810.8	1551.3	1284.0	1055.2	837.0	199.6	53.8	27.6
55°	3065.6	2703.1	2388.3	2062.7	1758.6	1457.5	1198.0	947.6	201.2	47.6	23.1
57.5°	3764.4	3339.0	2959.6	2532.7	2182.4	1793.9	1479.1	1175.0	219.6	39.9	16.9
60°	4767.4	4214.4	3681.5	3160.9	2715.5	2253.1	1844.6	1486.7	258.0	32.3	12.3
62.5°	5441.6	4718.2	4082.4	3507.9	2990.3	2506.5	2061.1	1654.1	284.1	26.1	7.7
63°	5510.7	4762.7	4123.8	3531.0	3002.6	2518.8	2070.3	1666.4	285.7	24.6	7.7
65°	5641.2	4839.6	4146.8	3535.6	2990.3	2502.0	2064.2	1664.8	288.7	20.0	6.1
67.5°	5492.3	4721.2	4013.2	3403.5	2882.8	2402.1	1987.5	1603.5	287.2	13.9	4.7
70°	4911.8	4272.8	3650.7	3082.5	2609.4	2174.8	1809.2	1462.1	264.2	9.2	3.1
72.5°	3606.3	3171.6	2689.3	2279.3	1965.9	1632.7	1393.0	1098.1	204.3	6.1	1.6
75°	1068.9	973.8	818.6	721.9	637.4	526.8	468.5	365.5	104.5	3.1	0.0
77.5°	213.5	193.5	173.6	158.2	149.0	127.4	121.3	99.8	43.0	1.6	0.0
80°	112.1	92.2	78.3	69.1	59.9	49.1	41.5	33.8	7.7	0.0	0.0
82.5°	107.5	72.2	52.2	43.0	36.8	29.2	23.1	16.9	4.7	0.0	0.0
85°	39.9	30.7	23.1	18.4	15.3	13.9	10.8	9.2	0.0	0.0	0.0
87.5°	6.1	4.7	4.7	3.1	3.1	1.6	1.6	1.6	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



REPORT NUMBER: P180413

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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	324.1	324.1	324.1	324.1	324.1	324.1	324.1
2.5°	274.9	262.6	256.5	248.8	248.8	247.3	250.3
5°	228.8	211.9	199.6	190.4	192.0	187.3	188.9
7.5°	193.5	176.7	165.9	159.7	158.2	156.7	156.7
10°	167.4	152.1	142.8	138.2	136.7	136.7	136.7
12.5°	149.0	133.6	126.0	122.9	122.9	121.3	121.3
15°	133.6	121.3	113.7	110.6	110.6	109.0	110.6
17.5°	121.3	109.0	102.9	99.8	99.8	98.3	98.3
20°	110.6	99.8	93.7	89.1	89.1	87.5	89.1
22.5°	101.4	90.6	83.0	79.9	78.3	76.8	78.3
25°	92.2	81.4	73.8	69.1	67.5	67.5	66.0
27.5°	84.5	73.8	64.5	59.9	58.3	58.3	56.8
30°	76.8	64.5	55.3	50.7	49.1	49.1	49.1
32.5°	69.1	55.3	47.6	43.0	41.5	41.5	41.5
35°	61.4	47.6	39.9	35.3	33.8	33.8	33.8
37.5°	52.2	39.9	30.7	27.6	26.1	24.6	24.6
40°	44.6	30.7	23.1	20.0	16.9	16.9	16.9
42.5°	36.8	24.6	16.9	12.3	10.8	9.2	10.8
45°	30.7	18.4	10.8	6.1	4.7	4.7	4.7
47.5°	24.6	12.3	4.7	1.6	1.6	1.6	1.6
50°	18.4	7.7	1.6	0.0	0.0	1.6	1.6
52.5°	13.9	4.7	0.0	0.0	0.0	0.0	0.0
55°	7.7	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	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
87.5°	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

(END OF REPORT)