

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: P676986

Luminaire Tested: **CCW-SA-1D-735-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676986  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-735-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4545.3 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

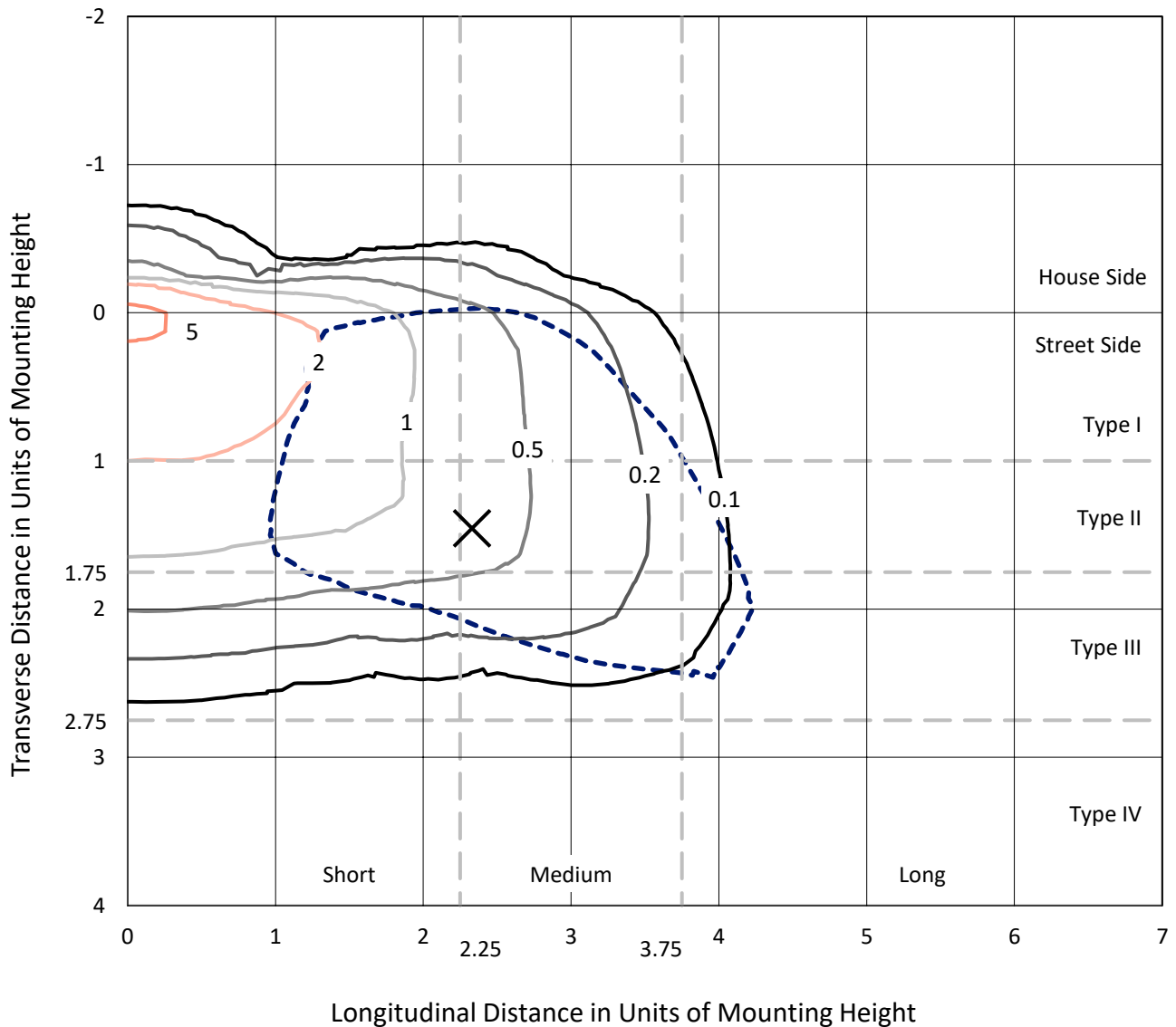
Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

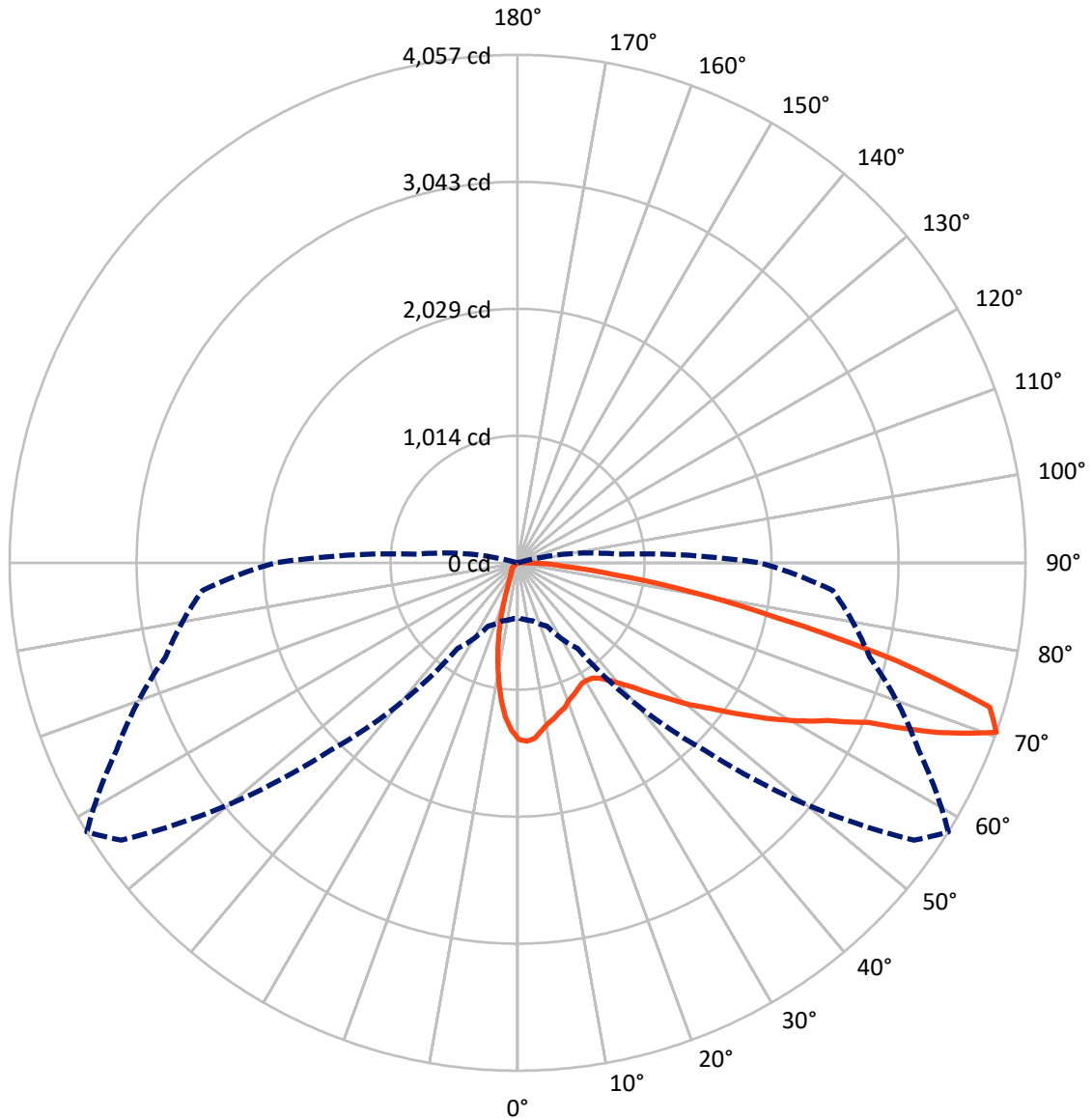
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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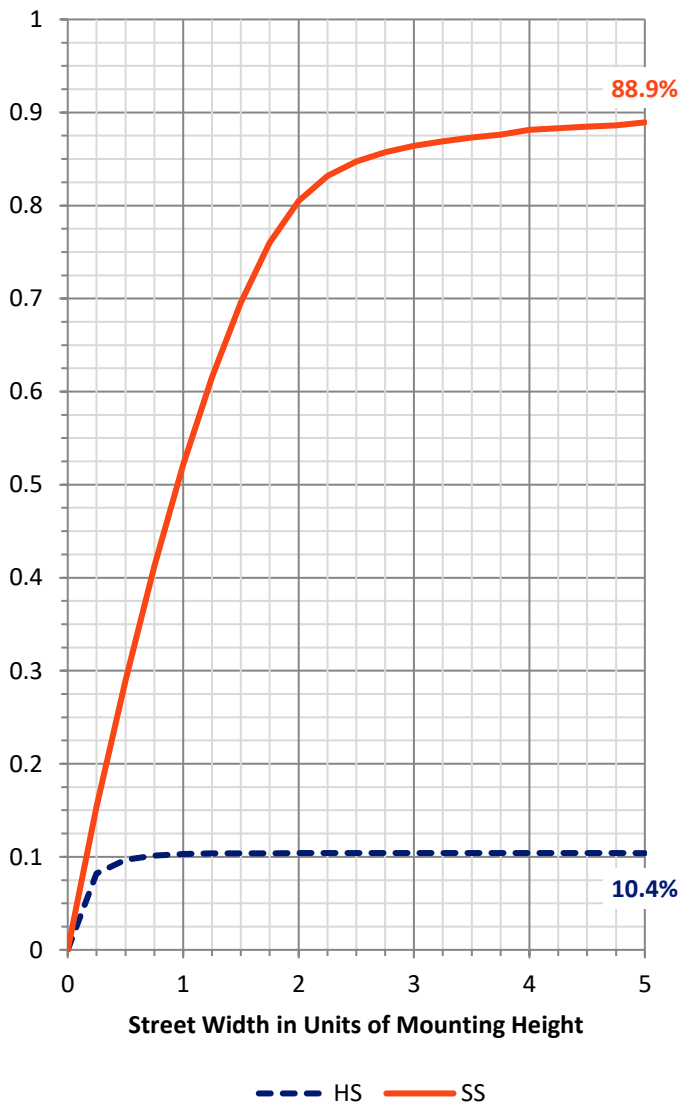
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	476.0	0.0	476.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4069.3	0.0	4069.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4545.3	0.0	4545.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	2.5
10°-20°	239.7	5.3
20°-30°	320.9	7.1
30°-40°	433.8	9.5
40°-50°	622.6	13.7
50°-60°	917.6	20.2
60°-70°	1119.2	24.6
70°-80°	683.4	15.0
80°-90°	92.8	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°	4545.3	100.0
0°-180°	4545.3	100.0

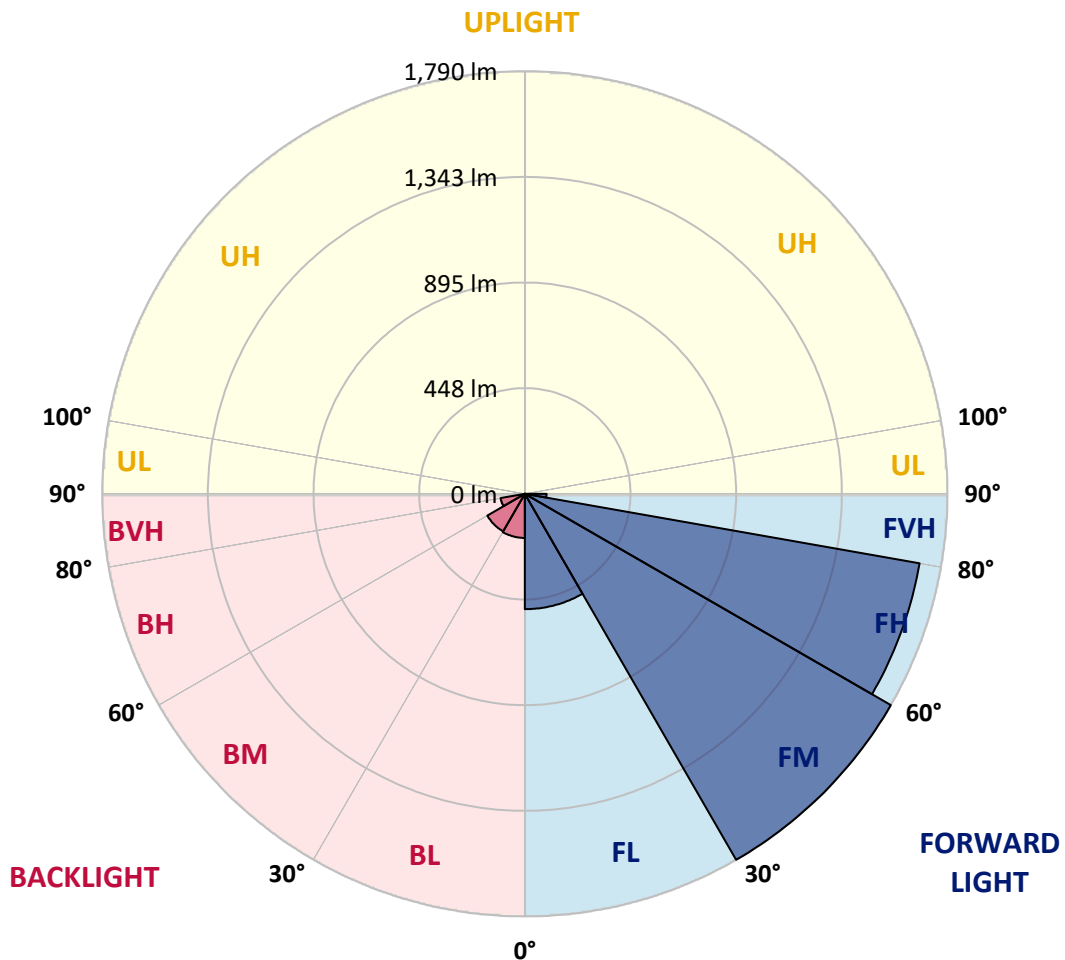


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.7	10.8			
FM (30°-60°)	1790.3	39.4			
FH (60°-80°)	1698.3	37.4			G1/1800
FVH (80°-90°)	91.9	2.0			G1/100
BL (0°-30°)	187.1	4.1	B1/500		
BM (30°-60°)	183.7	4.0	B0/220		
BH (60°-80°)	104.3	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0
2.5°	1436.6	1441.9	1429.1	1444.0	1430.2	1436.6	1429.1	1427.0	1428.1	1429.1	1420.6
5°	1369.4	1382.2	1387.6	1379.0	1399.3	1396.1	1408.9	1409.9	1404.6	1399.3	1400.3
7.5°	1281.0	1293.8	1299.1	1304.4	1324.7	1351.3	1368.4	1357.7	1366.2	1385.4	1356.6
10°	1217.0	1213.8	1212.8	1223.4	1261.8	1284.2	1313.0	1309.8	1331.1	1349.2	1325.7
12.5°	1138.2	1131.8	1151.0	1159.5	1193.6	1233.0	1255.4	1278.9	1300.2	1319.3	1292.7
15°	1079.6	1084.9	1092.4	1110.5	1135.0	1187.2	1220.2	1242.6	1281.0	1290.6	1279.9
17.5°	1032.7	1036.9	1047.6	1057.2	1088.1	1138.2	1190.4	1217.0	1257.5	1283.1	1250.1
20°	1033.7	1021.0	1021.0	1030.5	1047.6	1107.3	1162.7	1171.2	1226.6	1270.3	1247.9
22.5°	1034.8	1030.5	1021.0	1019.9	1027.3	1070.0	1126.5	1145.6	1205.3	1256.5	1229.8
25°	1049.7	1033.7	1034.8	1019.9	1023.1	1044.4	1089.2	1117.9	1186.1	1263.9	1220.2
27.5°	1062.5	1070.0	1055.1	1048.7	1030.5	1029.5	1066.8	1091.3	1176.5	1281.0	1226.6
30°	1091.3	1096.6	1096.6	1092.4	1075.3	1050.8	1059.3	1090.2	1157.4	1277.8	1216.0
32.5°	1139.2	1129.7	1142.4	1136.0	1113.7	1075.3	1082.8	1098.7	1169.1	1318.3	1233.0
35°	1155.2	1162.7	1179.7	1165.9	1158.4	1136.0	1121.1	1132.9	1186.1	1358.8	1258.6
37.5°	1204.3	1193.6	1205.3	1236.2	1243.7	1203.2	1174.4	1191.5	1250.1	1406.7	1282.0
40°	1208.5	1217.0	1238.4	1299.1	1306.6	1289.5	1266.1	1270.3	1314.0	1468.5	1340.7
42.5°	1229.8	1239.4	1283.1	1334.3	1374.8	1378.0	1360.9	1360.9	1398.2	1567.7	1405.7
45°	1271.4	1255.4	1311.9	1398.2	1456.8	1468.5	1490.9	1485.6	1515.4	1672.1	1527.2
47.5°	1287.4	1292.7	1354.5	1459.0	1526.1	1580.4	1617.7	1618.8	1633.7	1805.3	1684.9
50°	1339.6	1338.5	1413.1	1510.1	1609.2	1708.3	1780.8	1780.8	1779.7	1935.3	1820.2
52.5°	1408.9	1406.7	1464.3	1579.4	1708.3	1833.0	1928.9	1932.1	1956.6	2095.2	1975.8
55°	1521.8	1512.2	1567.7	1652.9	1807.4	1958.8	2125.0	2126.1	2106.9	2209.2	2087.7
57.5°	1616.7	1615.6	1661.4	1743.5	1918.3	2120.8	2313.7	2342.4	2281.7	2326.4	2177.2
60°	1592.2	1606.0	1700.9	1822.4	2035.5	2323.2	2517.2	2562.0	2465.0	2406.4	2244.4
62.5°	1439.8	1471.7	1575.1	1769.1	2134.6	2617.4	2797.5	2777.2	2560.9	2474.6	2326.4
65°	1035.9	1067.8	1195.7	1486.7	2019.5	2825.2	3166.2	3074.6	2731.4	2575.8	2436.2
67.5°	609.6	622.4	702.3	948.5	1510.1	2712.2	3613.8	3621.3	3067.1	2731.4	2625.9
70°	440.1	449.7	480.6	559.5	836.6	2126.1	3863.2	4057.2	3532.8	2910.5	2525.7
72.5°	337.8	337.8	390.0	465.7	532.9	1273.5	3555.2	3944.2	3634.1	2738.9	2035.5
75°	243.0	249.4	305.9	400.7	491.3	639.4	2619.5	3130.0	3079.9	2219.9	1421.7
77.5°	139.6	142.8	215.3	335.7	461.5	439.1	1618.8	2121.8	2181.5	1389.7	616.0
80°	71.4	73.5	120.4	265.4	417.8	382.6	965.5	1397.1	1185.1	403.9	142.8
82.5°	35.2	35.2	54.4	169.4	354.9	338.9	568.0	771.6	419.9	92.7	59.7
85°	11.7	12.8	24.5	95.9	256.8	204.6	347.4	366.6	140.7	35.2	33.0
87.5°	3.2	4.3	6.4	35.2	111.9	134.3	206.7	234.5	57.5	13.9	16.0
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°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0
2.5°	1388.6	1381.2	1372.6	1351.3	1334.3	1311.9	1297.0	1285.2	1262.9	1267.1	1257.5
5°	1374.8	1360.9	1311.9	1265.0	1222.4	1157.4	1112.6	1083.8	1060.4	1036.9	1054.0
7.5°	1350.3	1317.2	1240.5	1153.1	1062.5	977.3	892.0	840.8	803.5	769.4	768.4
10°	1308.7	1255.4	1135.0	1021.0	881.3	769.4	660.7	575.5	520.1	479.6	478.5
12.5°	1261.8	1206.4	1055.1	869.6	708.7	551.0	421.0	330.4	278.2	246.2	241.9
15°	1232.0	1151.0	954.9	735.3	536.1	359.1	233.4	176.9	156.7	149.2	149.2
17.5°	1193.6	1100.9	855.8	595.7	371.9	207.8	151.3	136.4	135.3	133.2	131.1
20°	1177.6	1062.5	767.3	475.3	235.5	147.1	130.0	126.8	126.8	124.7	122.6
22.5°	1135.0	1007.1	673.5	348.5	156.7	129.0	122.6	118.3	116.2	114.0	116.2
25°	1115.8	967.7	585.1	240.9	127.9	115.1	111.9	107.6	104.4	103.4	103.4
27.5°	1103.0	928.2	498.8	167.3	113.0	105.5	99.1	95.9	91.7	87.4	87.4
30°	1093.4	897.3	415.6	123.6	101.2	93.8	88.5	81.0	75.7	71.4	71.4
32.5°	1080.6	861.1	332.5	105.5	91.7	84.2	74.6	68.2	60.7	57.5	57.5
35°	1084.9	836.6	261.1	93.8	82.1	72.5	63.9	55.4	48.0	44.8	43.7
37.5°	1093.4	818.5	198.2	84.2	73.5	62.9	53.3	43.7	39.4	35.2	35.2
40°	1129.7	813.1	146.0	77.8	67.1	55.4	44.8	36.2	32.0	28.8	27.7
42.5°	1190.4	820.6	113.0	70.3	60.7	46.9	37.3	29.8	25.6	22.4	21.3
45°	1268.2	849.4	92.7	66.1	53.3	39.4	29.8	24.5	19.2	17.1	17.1
47.5°	1381.2	894.1	81.0	60.7	46.9	33.0	25.6	19.2	14.9	12.8	12.8
50°	1509.0	945.3	71.4	54.4	40.5	27.7	20.2	14.9	10.7	9.6	9.6
52.5°	1636.9	1010.3	66.1	50.1	35.2	22.4	16.0	10.7	7.5	6.4	6.4
55°	1771.2	1067.8	59.7	46.9	28.8	18.1	11.7	6.4	4.3	3.2	3.2
57.5°	1865.0	1090.2	52.2	40.5	22.4	13.9	8.5	4.3	2.1	1.1	1.1
60°	1932.1	1093.4	44.8	33.0	17.1	10.7	5.3	2.1	1.1	0.0	0.0
62.5°	1988.6	1099.8	38.4	25.6	12.8	7.5	3.2	1.1	0.0	0.0	0.0
65°	2100.5	1094.5	30.9	20.2	8.5	4.3	2.1	0.0	0.0	0.0	0.0
67.5°	2189.0	1041.2	24.5	13.9	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	1936.4	794.0	19.2	9.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1520.8	529.7	12.8	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	997.5	263.2	9.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	387.9	69.3	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	93.8	23.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.5	8.5	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	2.1	1.1	1.1	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)