

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: P677056

Luminaire Tested: **CCW-SA-2B-835-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677056
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-835-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL3 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

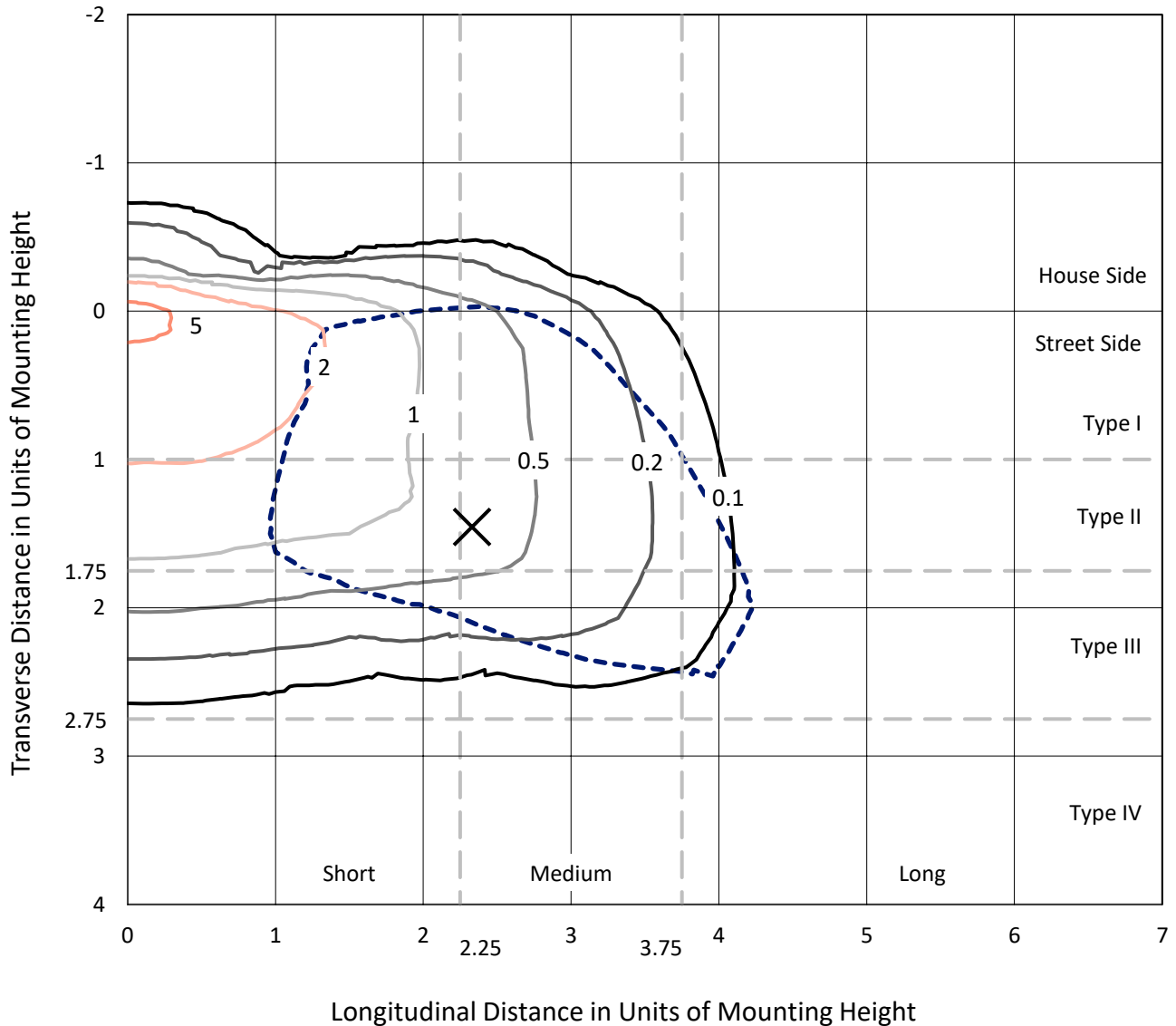
Lumens per Lamp: N/A
Luminaire Lumens: 4702.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

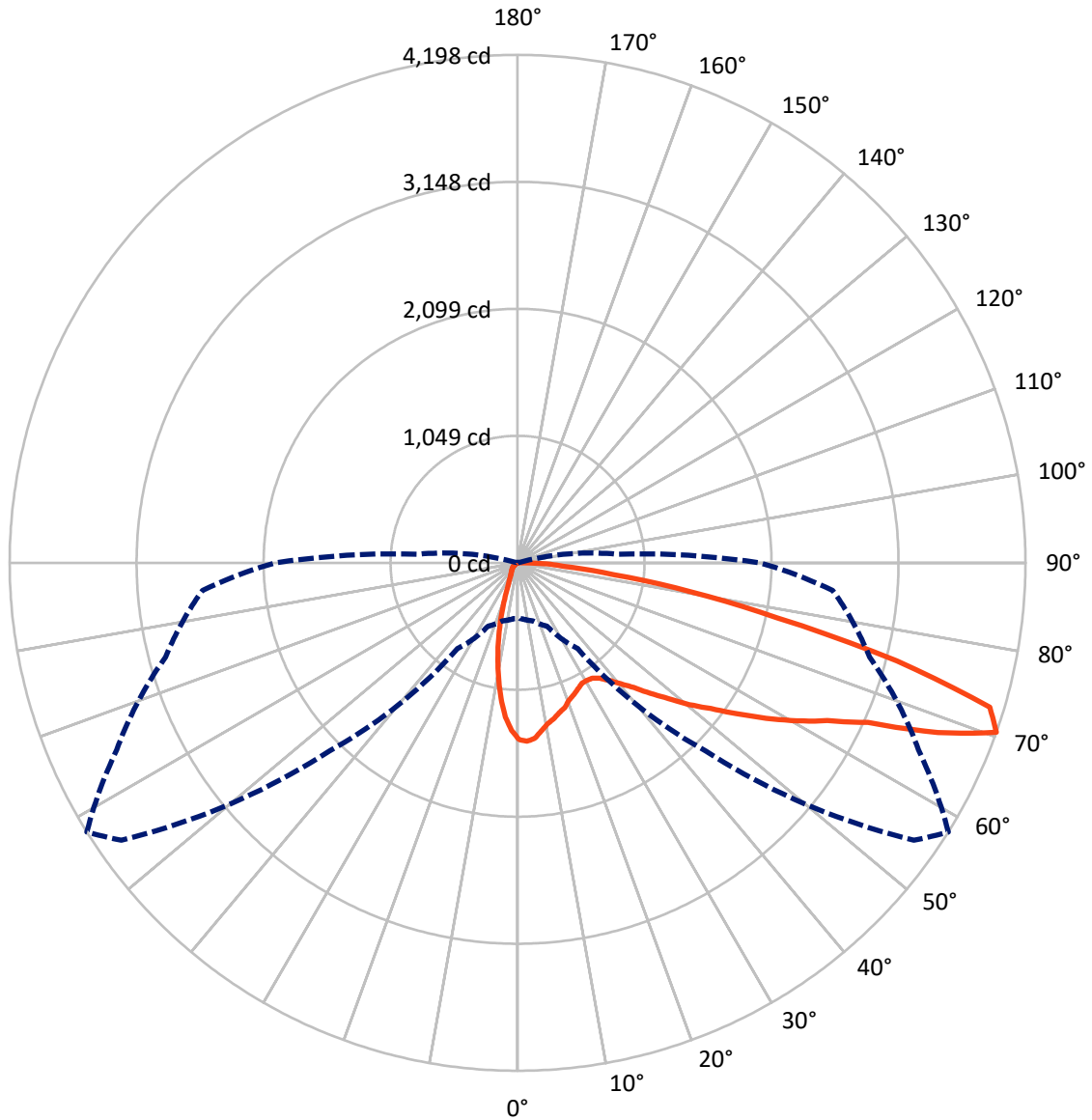
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 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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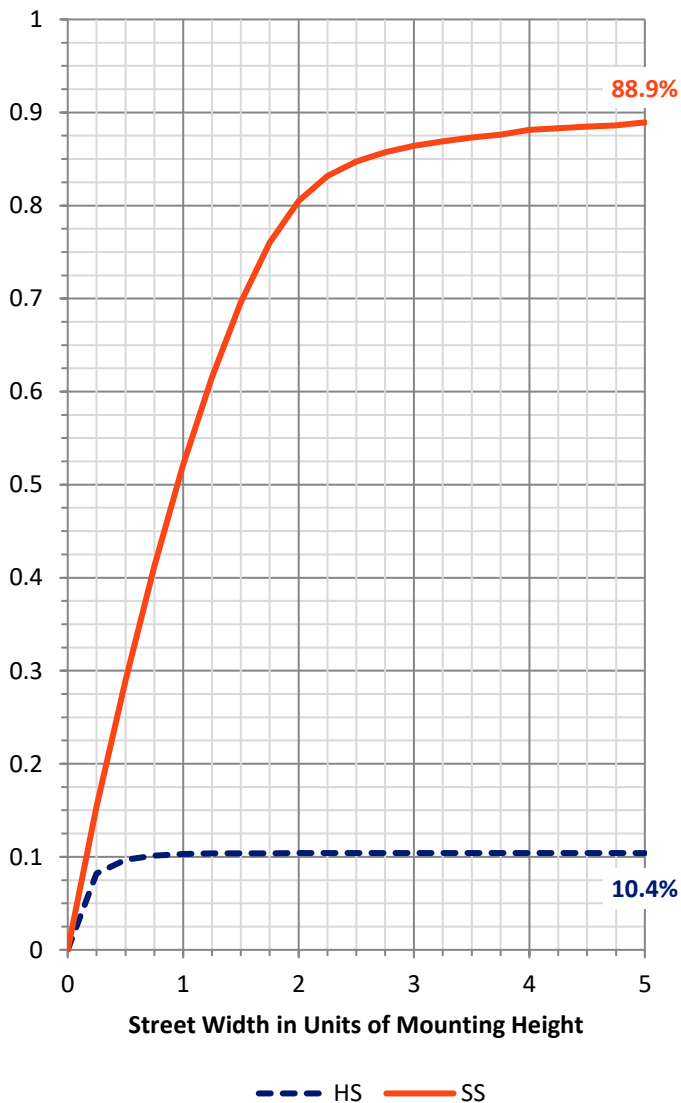
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	492.4	0.0	492.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4210.1	0.0	4210.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	4702.5	0.0	4702.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	2.5
10°-20°	248.0	5.3
20°-30°	332.0	7.1
30°-40°	448.8	9.5
40°-50°	644.2	13.7
50°-60°	949.3	20.2
60°-70°	1157.9	24.6
70°-80°	707.1	15.0
80°-90°	96.1	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°	4702.5	100.0
0°-180°	4702.5	100.0

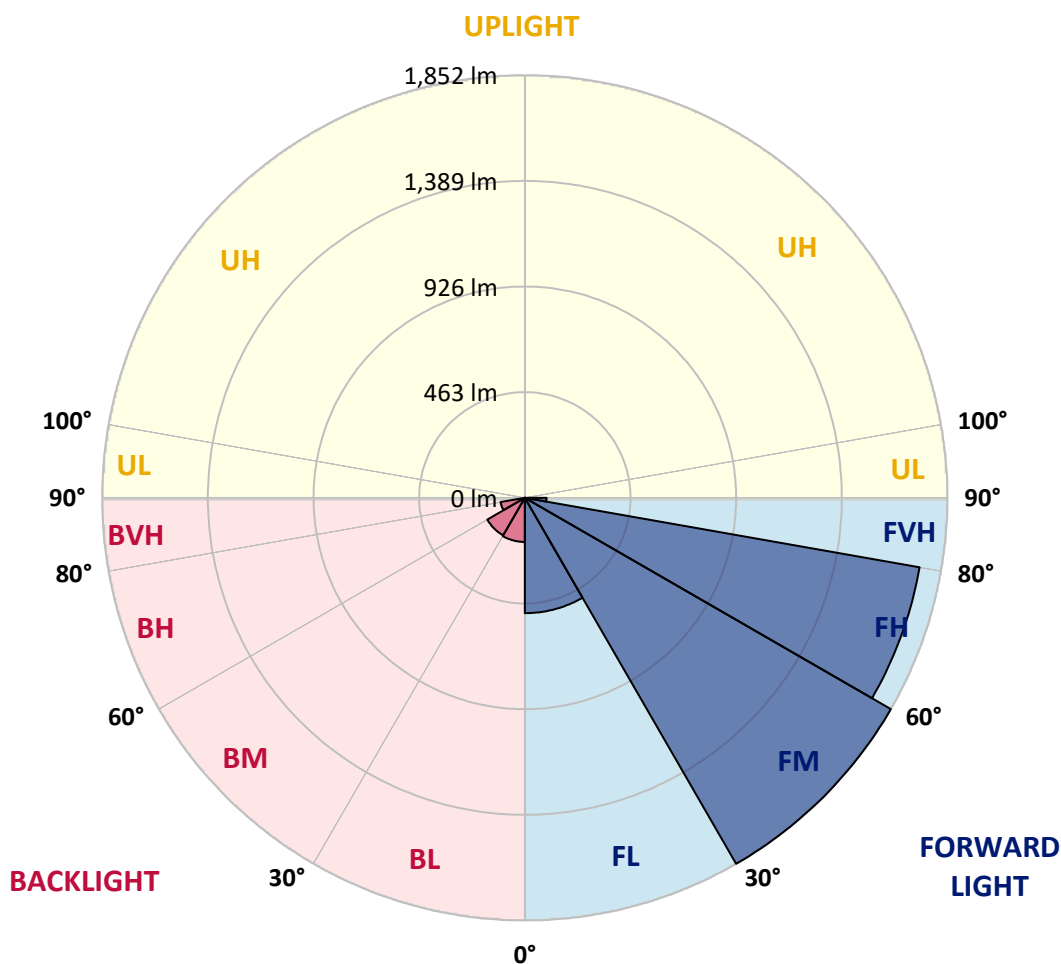


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.6	10.8			
FM (30°-60°)	1852.3	39.4			
FH (60°-80°)	1757.1	37.4			G1/1800
FVH (80°-90°)	95.1	2.0			G1/100
BL (0°-30°)	193.5	4.1	B1/500		
BM (30°-60°)	190.1	4.0	B0/220		
BH (60°-80°)	107.9	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°	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8
2.5°	1486.3	1491.8	1478.5	1494.0	1479.6	1486.3	1478.5	1476.3	1477.4	1478.5	1469.7
5°	1416.8	1430.0	1435.5	1426.7	1447.7	1444.4	1457.6	1458.7	1453.2	1447.7	1448.8
7.5°	1325.3	1338.5	1344.0	1349.5	1370.5	1398.1	1415.7	1404.7	1413.5	1433.3	1403.6
10°	1259.1	1255.8	1254.7	1265.7	1305.4	1328.6	1358.4	1355.1	1377.1	1395.8	1371.6
12.5°	1177.5	1170.9	1190.8	1199.6	1234.9	1275.7	1298.8	1323.1	1345.1	1365.0	1337.4
15°	1116.9	1122.4	1130.1	1148.9	1174.2	1228.3	1262.4	1285.6	1325.3	1335.2	1324.2
17.5°	1068.4	1072.8	1083.8	1093.7	1125.7	1177.5	1231.6	1259.1	1301.0	1327.5	1293.3
20°	1069.5	1056.3	1056.3	1066.2	1083.8	1145.6	1202.9	1211.7	1269.1	1314.3	1291.1
22.5°	1070.6	1066.2	1056.3	1055.2	1062.9	1107.0	1165.4	1185.3	1247.0	1299.9	1272.4
25°	1086.0	1069.5	1070.6	1055.2	1058.5	1080.5	1126.8	1156.6	1227.2	1307.6	1262.4
27.5°	1099.3	1107.0	1091.5	1084.9	1066.2	1065.1	1103.7	1129.0	1217.2	1325.3	1269.1
30°	1129.0	1134.5	1134.5	1130.1	1112.5	1087.1	1096.0	1127.9	1197.4	1322.0	1258.0
32.5°	1178.6	1168.7	1182.0	1175.3	1152.2	1112.5	1120.2	1136.7	1209.5	1363.9	1275.7
35°	1195.2	1202.9	1220.5	1206.2	1198.5	1175.3	1159.9	1172.0	1227.2	1405.8	1302.1
37.5°	1245.9	1234.9	1247.0	1279.0	1286.7	1244.8	1215.0	1232.7	1293.3	1455.4	1326.4
40°	1250.3	1259.1	1281.2	1344.0	1351.7	1334.1	1309.8	1314.3	1359.5	1519.3	1387.0
42.5°	1272.4	1282.3	1327.5	1380.4	1422.3	1425.6	1408.0	1408.0	1446.6	1621.9	1454.3
45°	1315.4	1298.8	1357.3	1446.6	1507.2	1519.3	1542.5	1537.0	1567.8	1729.9	1580.0
47.5°	1331.9	1337.4	1401.4	1509.4	1578.9	1635.1	1673.7	1674.8	1690.2	1867.7	1743.2
50°	1385.9	1384.8	1462.0	1562.3	1664.9	1767.4	1842.4	1842.4	1841.3	2002.3	1883.2
52.5°	1457.6	1455.4	1514.9	1634.0	1767.4	1896.4	1995.6	1999.0	2024.3	2167.6	2044.2
55°	1574.5	1564.5	1621.9	1710.1	1870.0	2026.5	2198.5	2199.6	2179.8	2285.6	2159.9
57.5°	1672.6	1671.5	1718.9	1803.8	1984.6	2194.1	2393.7	2423.4	2360.6	2406.9	2252.5
60°	1647.2	1661.6	1759.7	1885.4	2105.9	2403.6	2604.3	2650.6	2550.2	2489.6	2322.0
62.5°	1489.6	1522.6	1629.6	1830.3	2208.4	2707.9	2894.2	2873.3	2649.5	2560.2	2406.9
65°	1071.7	1104.8	1237.1	1538.1	2089.4	2922.9	3275.7	3180.9	2825.9	2664.9	2520.5
67.5°	630.7	643.9	726.6	981.3	1562.3	2806.0	3738.8	3746.5	3173.2	2825.9	2716.7
70°	455.4	465.3	497.3	578.8	865.5	2199.6	3996.8	4197.5	3655.0	3011.1	2613.1
72.5°	349.5	349.5	403.5	481.8	551.3	1317.6	3678.2	4080.6	3759.7	2833.6	2105.9
75°	251.4	258.0	316.4	414.6	508.3	661.5	2710.1	3238.2	3186.4	2296.6	1470.8
77.5°	144.4	147.7	222.7	347.3	477.4	454.3	1674.8	2195.2	2257.0	1437.7	637.3
80°	73.9	76.1	124.6	274.5	432.2	395.8	998.9	1445.5	1226.1	417.9	147.7
82.5°	36.4	36.4	56.2	175.3	367.2	350.6	587.7	798.3	434.4	95.9	61.7
85°	12.1	13.2	25.4	99.2	265.7	211.7	359.4	379.3	145.5	36.4	34.2
87.5°	3.3	4.4	6.6	36.4	115.8	138.9	213.9	242.6	59.5	14.3	16.5
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°	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8
2.5°	1436.6	1428.9	1420.1	1398.1	1380.4	1357.3	1341.8	1329.7	1306.5	1311.0	1301.0
5°	1422.3	1408.0	1357.3	1308.7	1264.6	1197.4	1151.1	1121.3	1097.1	1072.8	1090.4
7.5°	1397.0	1362.8	1283.4	1193.0	1099.3	1011.1	922.8	869.9	831.3	796.1	794.9
10°	1354.0	1298.8	1174.2	1056.3	911.8	796.1	683.6	595.4	538.1	496.2	495.1
12.5°	1305.4	1248.1	1091.5	899.7	733.2	570.0	435.5	341.8	287.8	254.7	250.3
15°	1274.6	1190.8	987.9	760.8	554.6	371.6	241.5	183.0	162.1	154.4	154.4
17.5°	1234.9	1139.0	885.4	616.3	384.8	215.0	156.6	141.1	140.0	137.8	135.6
20°	1218.3	1099.3	793.8	491.7	243.7	152.2	134.5	131.2	131.2	129.0	126.8
22.5°	1174.2	1041.9	696.8	360.5	162.1	133.4	126.8	122.4	120.2	118.0	120.2
25°	1154.4	1001.1	605.3	249.2	132.3	119.1	115.8	111.4	108.1	106.9	106.9
27.5°	1141.2	960.3	516.0	173.1	116.9	109.2	102.5	99.2	94.8	90.4	90.4
30°	1131.2	928.4	430.0	127.9	104.7	97.0	91.5	83.8	78.3	73.9	73.9
32.5°	1118.0	890.9	344.0	109.2	94.8	87.1	77.2	70.6	62.8	59.5	59.5
35°	1122.4	865.5	270.1	97.0	84.9	75.0	66.2	57.3	49.6	46.3	45.2
37.5°	1131.2	846.8	205.1	87.1	76.1	65.1	55.1	45.2	40.8	36.4	36.4
40°	1168.7	841.3	151.1	80.5	69.5	57.3	46.3	37.5	33.1	29.8	28.7
42.5°	1231.6	849.0	116.9	72.8	62.8	48.5	38.6	30.9	26.5	23.2	22.1
45°	1312.1	878.7	95.9	68.4	55.1	40.8	30.9	25.4	19.8	17.6	17.6
47.5°	1428.9	925.1	83.8	62.8	48.5	34.2	26.5	19.8	15.4	13.2	13.2
50°	1561.2	978.0	73.9	56.2	41.9	28.7	20.9	15.4	11.0	9.9	9.9
52.5°	1693.5	1045.2	68.4	51.8	36.4	23.2	16.5	11.0	7.7	6.6	6.6
55°	1832.5	1104.8	61.7	48.5	29.8	18.7	12.1	6.6	4.4	3.3	3.3
57.5°	1929.5	1127.9	54.0	41.9	23.2	14.3	8.8	4.4	2.2	1.1	1.1
60°	1999.0	1131.2	46.3	34.2	17.6	11.0	5.5	2.2	1.1	0.0	0.0
62.5°	2057.4	1137.8	39.7	26.5	13.2	7.7	3.3	1.1	0.0	0.0	0.0
65°	2173.2	1132.3	32.0	20.9	8.8	4.4	2.2	0.0	0.0	0.0	0.0
67.5°	2264.7	1077.2	25.4	14.3	5.5	2.2	1.1	0.0	0.0	0.0	0.0
70°	2003.4	821.4	19.8	9.9	3.3	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1573.4	548.0	13.2	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	1032.0	272.3	9.9	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	401.3	71.7	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	97.0	24.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.9	8.8	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.4	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	2.2	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)