

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: P677045

Luminaire Tested: **CCW-SA-2B-830-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677045
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

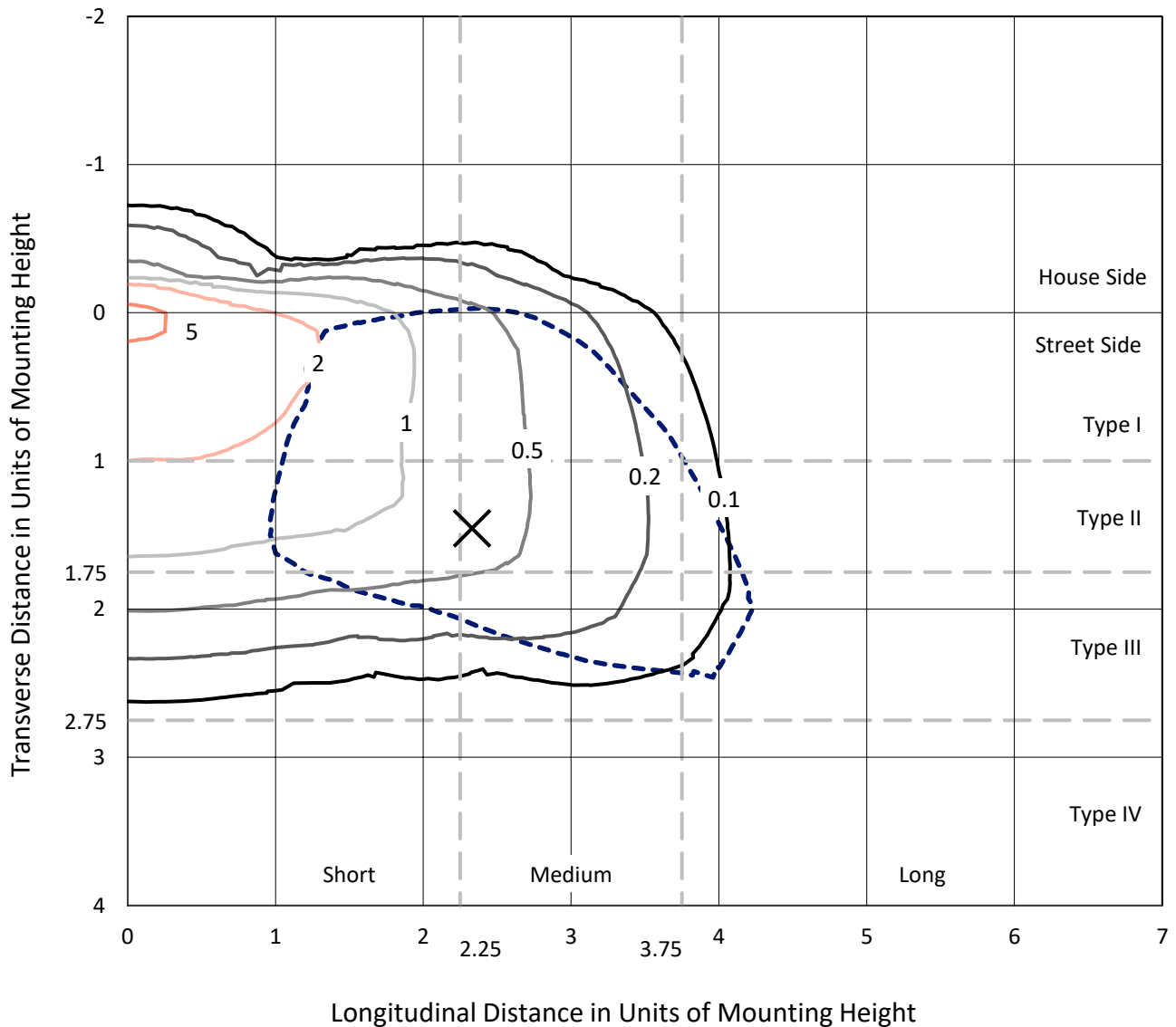
Lumens per Lamp: N/A
Luminaire Lumens: 4534.7 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): 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

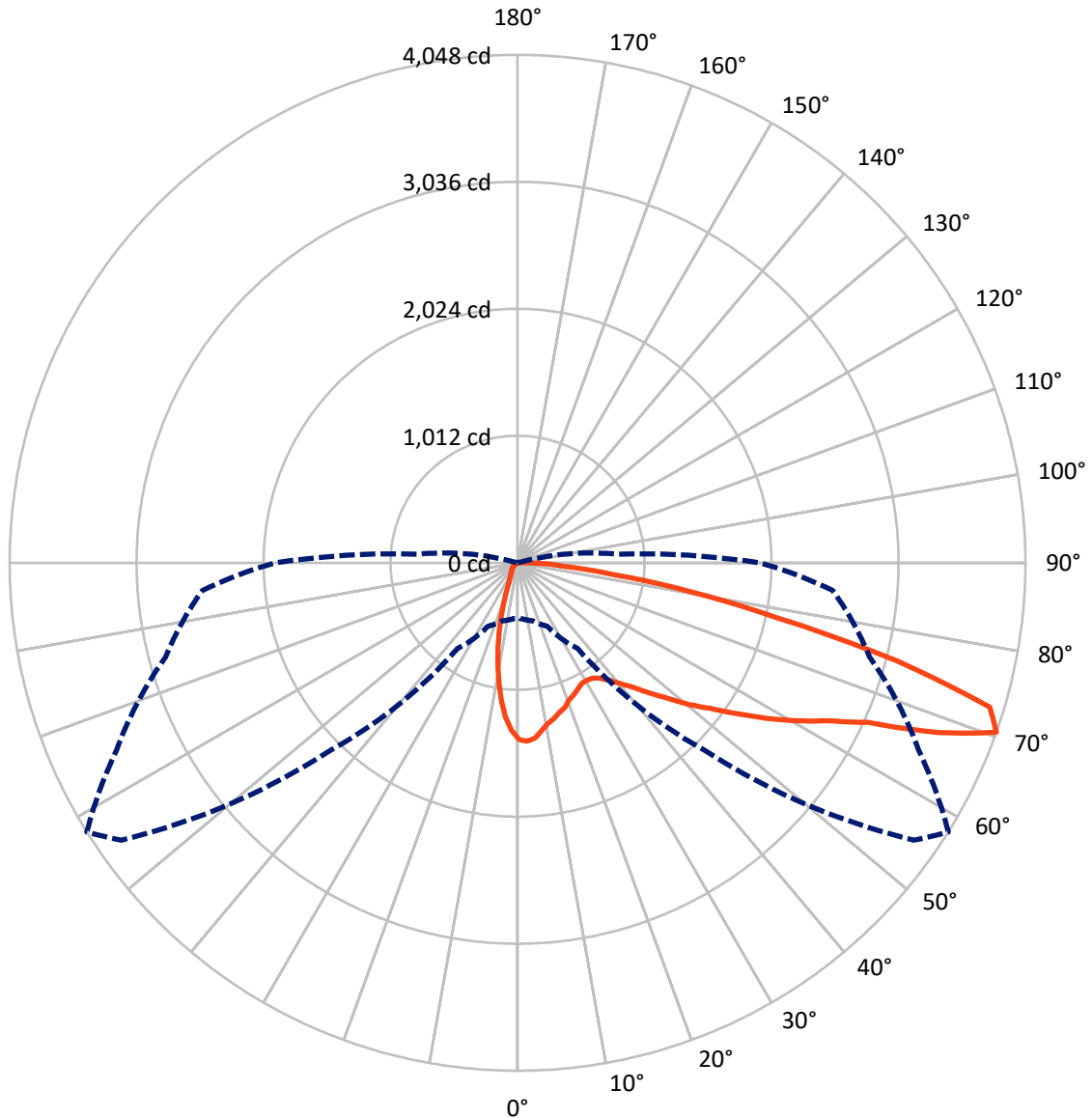
× Max cd
 - - - 1/2 Max cd



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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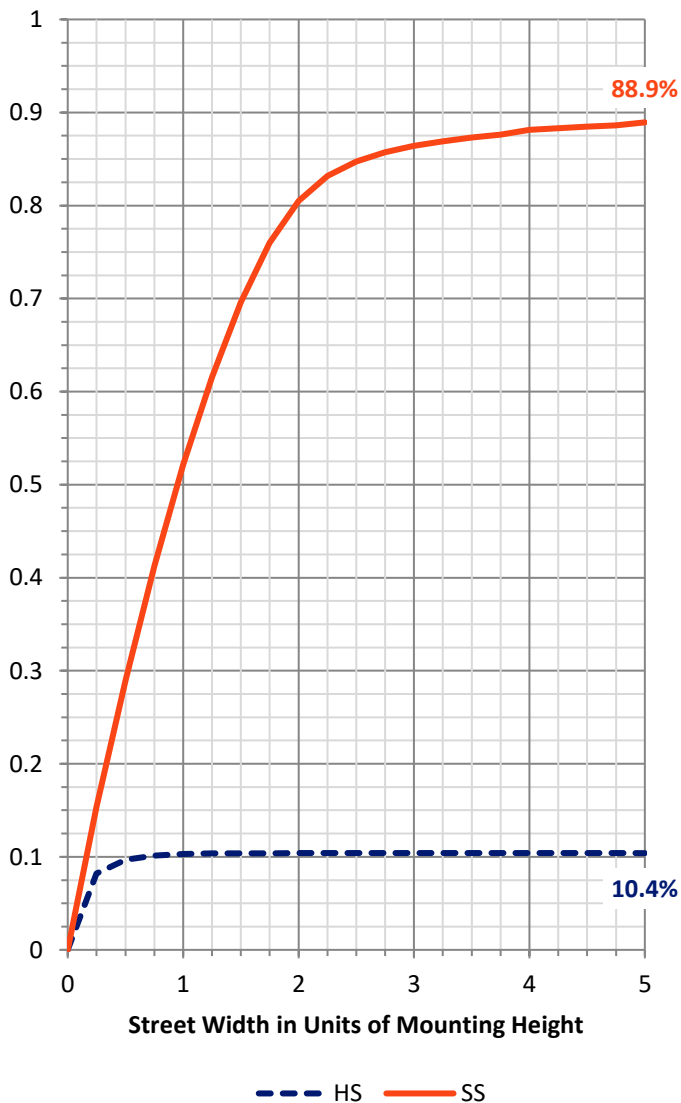
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	474.9	0.0	474.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4059.9	0.0	4059.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	4534.7	0.0	4534.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	2.5
10°-20°	239.1	5.3
20°-30°	320.2	7.1
30°-40°	432.8	9.5
40°-50°	621.2	13.7
50°-60°	915.4	20.2
60°-70°	1116.6	24.6
70°-80°	681.8	15.0
80°-90°	92.6	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°	4534.7	100.0
0°-180°	4534.7	100.0

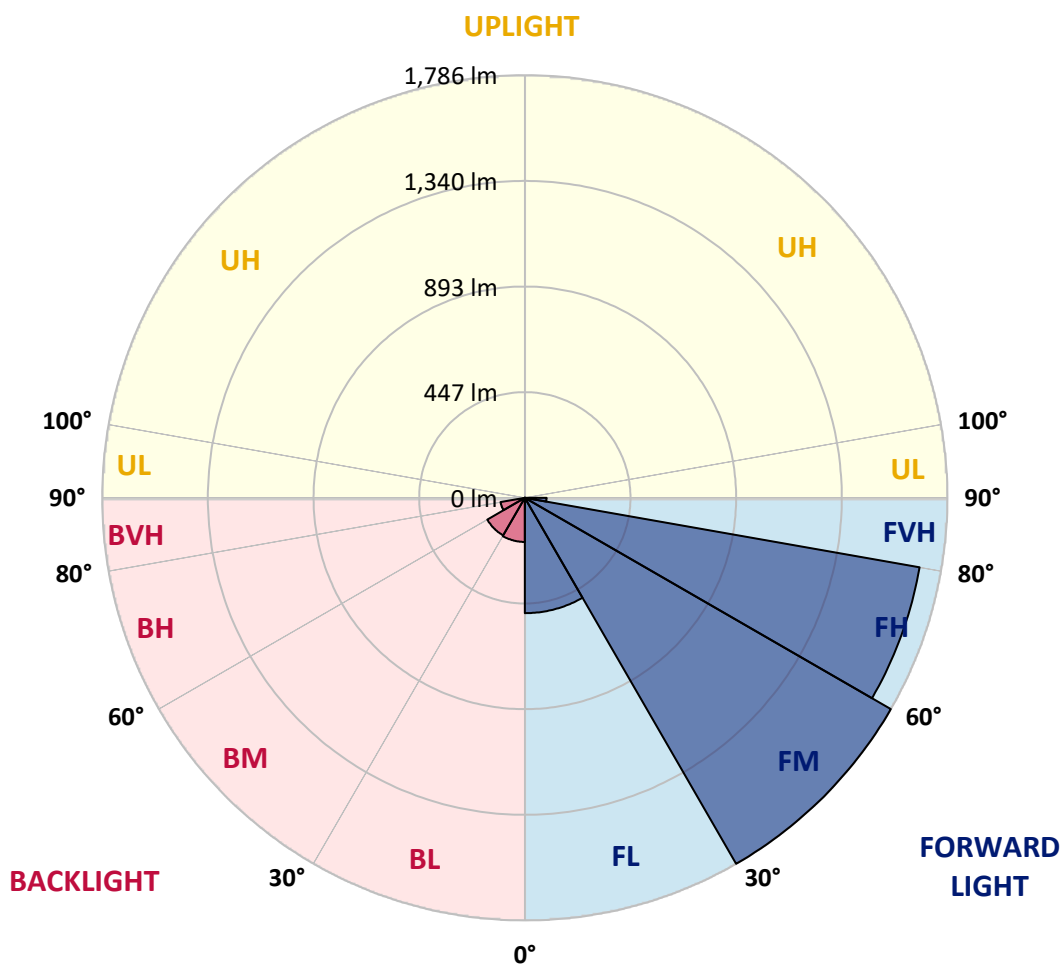


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.6	10.8			
FM (30°-60°)	1786.2	39.4			
FH (60°-80°)	1694.4	37.4			G1/1800
FVH (80°-90°)	91.7	2.0			G1/100
BL (0°-30°)	186.6	4.1	B1/500		
BM (30°-60°)	183.3	4.0	B0/220		
BH (60°-80°)	104.1	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°	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7
2.5°	1433.2	1438.5	1425.8	1440.7	1426.8	1433.2	1425.8	1423.7	1424.7	1425.8	1417.3
5°	1366.2	1379.0	1384.3	1375.8	1396.0	1392.8	1405.6	1406.6	1401.3	1396.0	1397.1
7.5°	1278.0	1290.8	1296.1	1301.4	1321.6	1348.2	1365.2	1354.6	1363.1	1382.2	1353.5
10°	1214.2	1211.0	1210.0	1220.6	1258.9	1281.2	1309.9	1306.7	1328.0	1346.0	1322.7
12.5°	1135.5	1129.1	1148.3	1156.8	1190.8	1230.2	1252.5	1275.9	1297.1	1316.3	1289.7
15°	1077.0	1082.4	1089.8	1107.9	1132.3	1184.4	1217.4	1239.7	1278.0	1287.6	1276.9
17.5°	1030.3	1034.5	1045.2	1054.7	1085.6	1135.5	1187.6	1214.2	1254.6	1280.1	1247.2
20°	1031.3	1018.6	1018.6	1028.1	1045.2	1104.7	1160.0	1168.5	1223.8	1267.4	1245.0
22.5°	1032.4	1028.1	1018.6	1017.5	1025.0	1067.5	1123.8	1143.0	1202.5	1253.5	1227.0
25°	1047.3	1031.3	1032.4	1017.5	1020.7	1042.0	1086.6	1115.3	1183.4	1261.0	1217.4
27.5°	1060.0	1067.5	1052.6	1046.2	1028.1	1027.1	1064.3	1088.7	1173.8	1278.0	1223.8
30°	1088.7	1094.1	1094.1	1089.8	1072.8	1048.3	1056.8	1087.7	1154.7	1274.8	1213.1
32.5°	1136.6	1127.0	1139.8	1133.4	1111.1	1072.8	1080.2	1096.2	1166.4	1315.2	1230.2
35°	1152.5	1160.0	1177.0	1163.2	1155.7	1133.4	1118.5	1130.2	1183.4	1355.6	1255.7
37.5°	1201.4	1190.8	1202.5	1233.3	1240.8	1200.4	1171.7	1188.7	1247.2	1403.5	1279.1
40°	1205.7	1214.2	1235.5	1296.1	1303.5	1286.5	1263.1	1267.4	1311.0	1465.1	1337.5
42.5°	1227.0	1236.5	1280.1	1331.2	1371.6	1374.8	1357.7	1357.7	1395.0	1564.0	1402.4
45°	1268.4	1252.5	1308.8	1395.0	1453.4	1465.1	1487.5	1482.1	1511.9	1668.2	1523.6
47.5°	1284.4	1289.7	1351.4	1455.6	1522.5	1576.8	1614.0	1615.0	1629.9	1801.1	1681.0
50°	1336.5	1335.4	1409.8	1506.6	1605.5	1704.4	1776.7	1776.7	1775.6	1930.8	1816.0
52.5°	1405.6	1403.5	1460.9	1575.7	1704.4	1828.7	1924.4	1927.6	1952.1	2090.3	1971.2
55°	1518.3	1508.7	1564.0	1649.1	1803.2	1954.2	2120.1	2121.1	2102.0	2204.1	2082.9
57.5°	1612.9	1611.9	1657.6	1739.4	1913.8	2115.8	2308.3	2337.0	2276.4	2321.0	2172.2
60°	1588.5	1602.3	1696.9	1818.1	2030.8	2317.8	2511.3	2556.0	2459.2	2400.8	2239.2
62.5°	1436.4	1468.3	1571.4	1765.0	2129.6	2611.3	2791.0	2770.8	2554.9	2468.8	2321.0
65°	1033.5	1065.4	1192.9	1483.2	2014.8	2818.6	3158.8	3067.4	2725.0	2569.8	2430.5
67.5°	608.2	620.9	700.7	946.3	1506.6	2705.9	3605.4	3612.8	3060.0	2725.0	2619.8
70°	439.1	448.7	479.5	558.2	834.6	2121.1	3854.2	4047.7	3524.6	2903.7	2519.8
72.5°	337.0	337.0	389.1	464.6	531.6	1270.6	3546.9	3935.0	3625.6	2732.5	2030.8
75°	242.4	248.8	305.1	399.8	490.1	637.9	2613.4	3122.7	3072.7	2214.7	1418.3
77.5°	139.3	142.5	214.8	334.9	460.4	438.0	1615.0	2116.9	2176.4	1386.4	614.5
80°	71.2	73.4	120.1	264.7	416.8	381.7	963.3	1393.9	1182.3	403.0	142.5
82.5°	35.1	35.1	54.2	169.1	354.1	338.1	566.7	769.8	418.9	92.5	59.5
85°	11.7	12.8	24.5	95.7	256.2	204.1	346.6	365.7	140.3	35.1	33.0
87.5°	3.2	4.3	6.4	35.1	111.6	134.0	206.3	233.9	57.4	13.8	15.9
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°	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7
2.5°	1385.4	1377.9	1369.4	1348.2	1331.2	1308.8	1293.9	1282.3	1259.9	1264.2	1254.6
5°	1371.6	1357.7	1308.8	1262.0	1219.5	1154.7	1110.0	1081.3	1057.9	1034.5	1051.5
7.5°	1347.1	1314.1	1237.6	1150.4	1060.0	975.0	889.9	838.9	801.7	767.6	766.6
10°	1305.6	1252.5	1132.3	1018.6	879.3	767.6	659.2	574.1	518.9	478.5	477.4
12.5°	1258.9	1203.6	1052.6	867.6	707.0	549.7	420.0	329.6	277.5	245.6	241.4
15°	1229.1	1148.3	952.7	733.6	534.8	358.3	232.8	176.5	156.3	148.9	148.9
17.5°	1190.8	1098.3	853.8	594.3	371.1	207.3	151.0	136.1	135.0	132.9	130.8
20°	1174.9	1060.0	765.5	474.2	235.0	146.7	129.7	126.5	126.5	124.4	122.3
22.5°	1132.3	1004.7	672.0	347.7	156.3	128.7	122.3	118.0	115.9	113.8	115.9
25°	1113.2	965.4	583.7	240.3	127.6	114.8	111.6	107.4	104.2	103.1	103.1
27.5°	1100.4	926.1	497.6	166.9	112.7	105.3	98.9	95.7	91.4	87.2	87.2
30°	1090.9	895.2	414.7	123.3	101.0	93.6	88.2	80.8	75.5	71.2	71.2
32.5°	1078.1	859.1	331.7	105.3	91.4	84.0	74.4	68.0	60.6	57.4	57.4
35°	1082.4	834.6	260.5	93.6	81.9	72.3	63.8	55.3	47.8	44.7	43.6
37.5°	1090.9	816.6	197.8	84.0	73.4	62.7	53.2	43.6	39.3	35.1	35.1
40°	1127.0	811.2	145.7	77.6	67.0	55.3	44.7	36.1	31.9	28.7	27.6
42.5°	1187.6	818.7	112.7	70.2	60.6	46.8	37.2	29.8	25.5	22.3	21.3
45°	1265.2	847.4	92.5	65.9	53.2	39.3	29.8	24.5	19.1	17.0	17.0
47.5°	1377.9	892.0	80.8	60.6	46.8	33.0	25.5	19.1	14.9	12.8	12.8
50°	1505.5	943.1	71.2	54.2	40.4	27.6	20.2	14.9	10.6	9.6	9.6
52.5°	1633.1	1007.9	65.9	50.0	35.1	22.3	15.9	10.6	7.4	6.4	6.4
55°	1767.1	1065.4	59.5	46.8	28.7	18.1	11.7	6.4	4.3	3.2	3.2
57.5°	1860.6	1087.7	52.1	40.4	22.3	13.8	8.5	4.3	2.1	1.1	1.1
60°	1927.6	1090.9	44.7	33.0	17.0	10.6	5.3	2.1	1.1	0.0	0.0
62.5°	1984.0	1097.2	38.3	25.5	12.8	7.4	3.2	1.1	0.0	0.0	0.0
65°	2095.6	1091.9	30.8	20.2	8.5	4.3	2.1	0.0	0.0	0.0	0.0
67.5°	2183.9	1038.8	24.5	13.8	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	1931.9	792.1	19.1	9.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1517.2	528.4	12.8	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	995.2	262.6	9.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	387.0	69.1	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	93.6	23.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.4	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)