

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: P673911

Luminaire Tested: **CCP-SA-2B-840-U-SL3-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673911  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-840-U-SL3-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL3 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4865.7 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

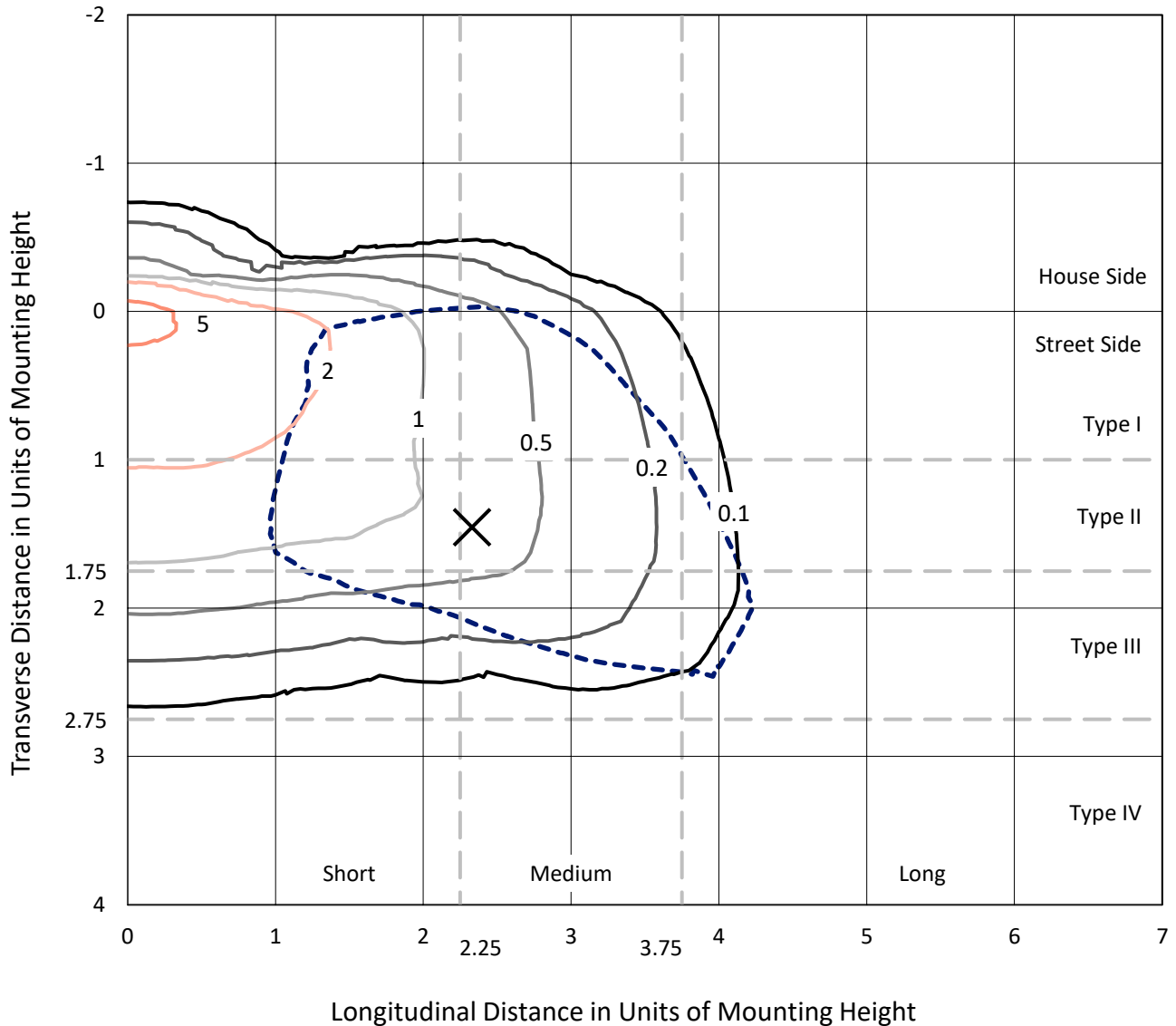
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

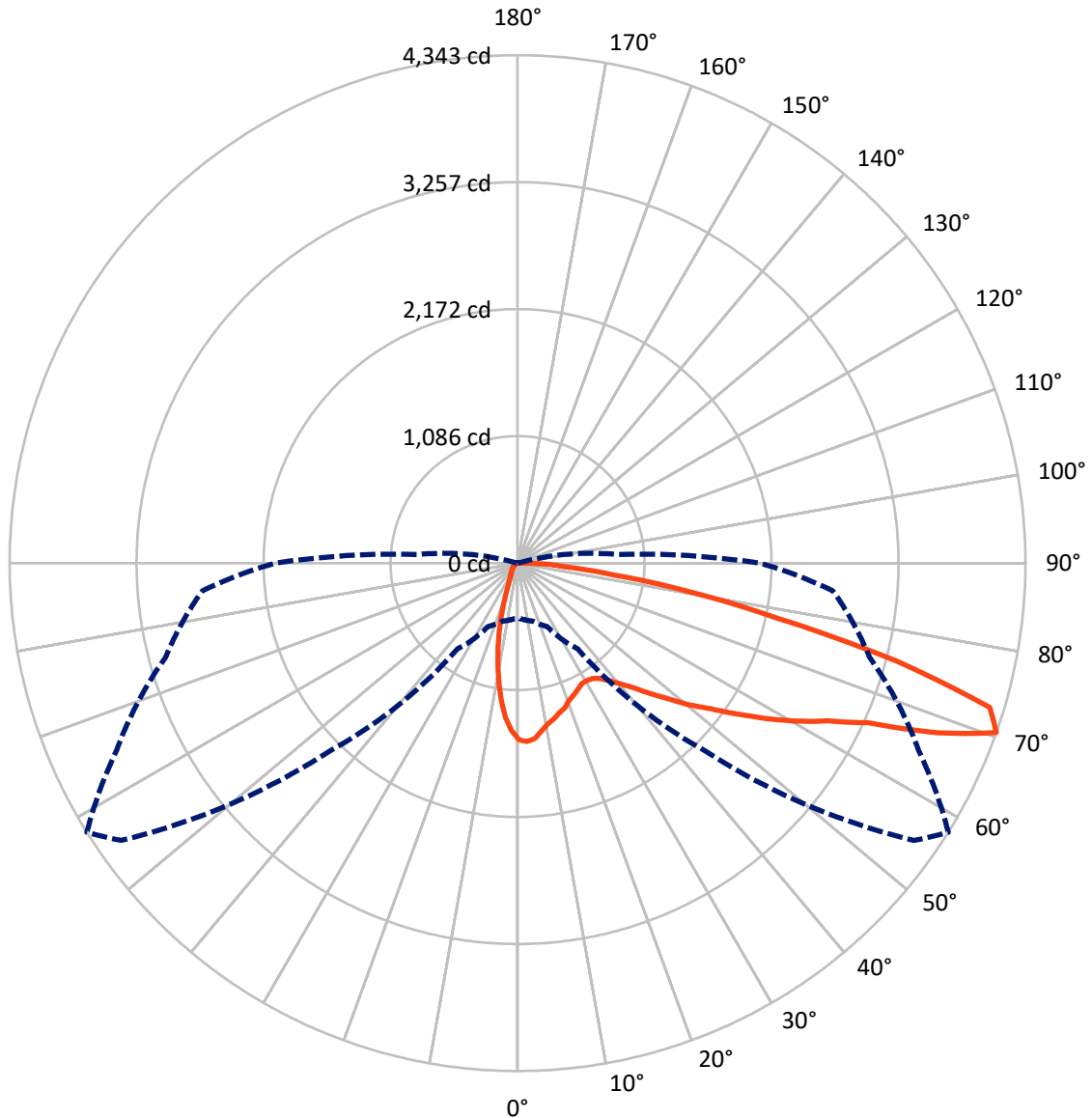
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 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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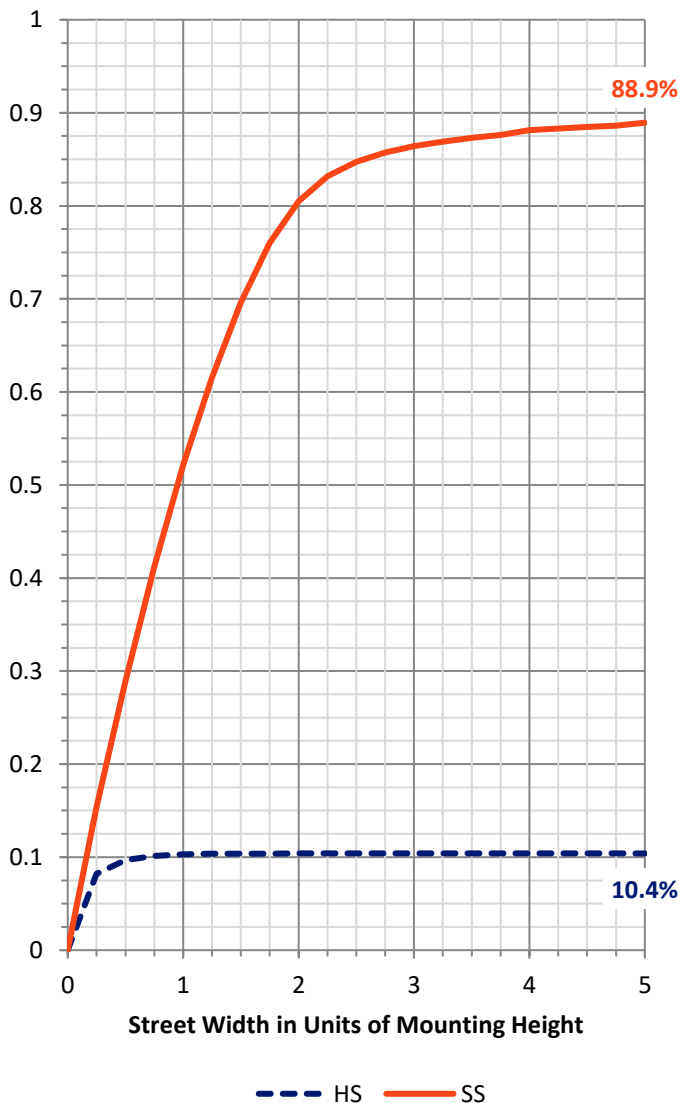
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	509.5	0.0	509.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4356.2	0.0	4356.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4865.7	0.0	4865.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	2.5
10°-20°	256.6	5.3
20°-30°	343.6	7.1
30°-40°	464.4	9.5
40°-50°	666.5	13.7
50°-60°	982.3	20.2
60°-70°	1198.1	24.6
70°-80°	731.6	15.0
80°-90°	99.4	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°	4865.7	100.0
0°-180°	4865.7	100.0



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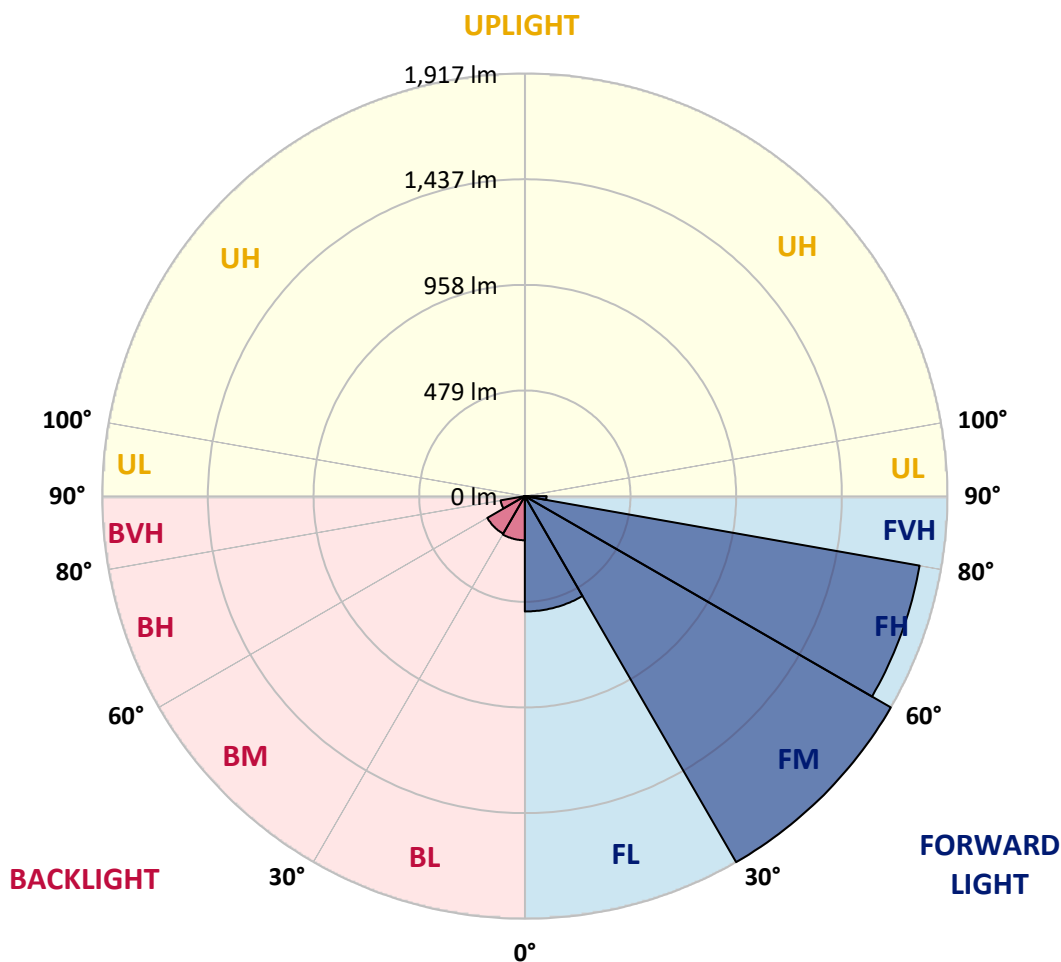
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.1	10.8			
FM (30°-60°)	1916.6	39.4			
FH (60°-80°)	1818.1	37.4			G2/5000
FVH (80°-90°)	98.4	2.0			G1/100
BL (0°-30°)	200.2	4.1	B1/500		
BM (30°-60°)	196.6	4.0	B0/220		
BH (60°-80°)	111.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5
2.5°	1537.8	1543.5	1529.9	1545.8	1531.0	1537.8	1529.9	1527.6	1528.7	1529.9	1520.7
5°	1466.0	1479.7	1485.4	1476.2	1497.9	1494.5	1508.2	1509.3	1503.6	1497.9	1499.1
7.5°	1371.3	1385.0	1390.7	1396.4	1418.1	1446.6	1464.8	1453.4	1462.5	1483.1	1452.3
10°	1302.8	1299.4	1298.3	1309.7	1350.7	1374.7	1405.5	1402.1	1424.9	1444.3	1419.2
12.5°	1218.4	1211.6	1232.1	1241.2	1277.7	1319.9	1343.9	1369.0	1391.8	1412.4	1383.8
15°	1155.7	1161.4	1169.4	1188.7	1215.0	1270.9	1306.3	1330.2	1371.3	1381.6	1370.1
17.5°	1105.5	1110.0	1121.4	1131.7	1164.8	1218.4	1274.3	1302.8	1346.2	1373.6	1338.2
20°	1106.6	1092.9	1092.9	1103.2	1121.4	1185.3	1244.7	1253.8	1313.1	1359.9	1335.9
22.5°	1107.8	1103.2	1092.9	1091.8	1099.8	1145.4	1205.9	1226.4	1290.3	1345.0	1316.5
25°	1123.7	1106.6	1107.8	1091.8	1095.2	1118.0	1165.9	1196.7	1269.7	1353.0	1306.3
27.5°	1137.4	1145.4	1129.4	1122.6	1103.2	1102.0	1142.0	1168.2	1259.5	1371.3	1313.1
30°	1168.2	1173.9	1173.9	1169.4	1151.1	1124.9	1134.0	1167.1	1238.9	1367.9	1301.7
32.5°	1219.6	1209.3	1223.0	1216.1	1192.2	1151.1	1159.1	1176.2	1251.5	1411.2	1319.9
35°	1236.7	1244.7	1262.9	1248.1	1240.1	1216.1	1200.2	1212.7	1269.7	1454.6	1347.3
37.5°	1289.1	1277.7	1290.3	1323.4	1331.4	1288.0	1257.2	1275.5	1338.2	1505.9	1372.4
40°	1293.7	1302.8	1325.6	1390.7	1398.7	1380.4	1355.3	1359.9	1406.6	1572.1	1435.2
42.5°	1316.5	1326.8	1373.6	1428.3	1471.7	1475.1	1456.8	1456.8	1496.8	1678.2	1504.8
45°	1361.0	1343.9	1404.4	1496.8	1559.5	1572.1	1596.0	1590.3	1622.3	1790.0	1634.8
47.5°	1378.1	1383.8	1450.0	1561.8	1633.7	1691.9	1731.8	1732.9	1748.9	1932.6	1803.7
50°	1434.0	1432.9	1512.7	1616.6	1722.7	1828.8	1906.3	1906.3	1905.2	2071.8	1948.5
52.5°	1508.2	1505.9	1567.5	1690.7	1828.8	1962.2	2064.9	2068.3	2094.6	2242.9	2115.1
55°	1629.1	1618.8	1678.2	1769.4	1934.9	2096.9	2274.8	2276.0	2255.4	2364.9	2234.9
57.5°	1730.6	1729.5	1778.6	1866.4	2053.5	2270.3	2476.8	2507.6	2442.5	2490.4	2330.7
60°	1704.4	1719.2	1820.8	1950.8	2179.0	2487.0	2694.7	2742.6	2638.7	2576.0	2402.6
62.5°	1541.3	1575.5	1686.2	1893.8	2285.1	2801.9	2994.7	2973.0	2741.4	2649.0	2490.4
65°	1108.9	1143.1	1280.0	1591.5	2161.9	3024.4	3389.4	3291.3	2924.0	2757.4	2607.9
67.5°	652.6	666.2	751.8	1015.3	1616.6	2903.4	3868.6	3876.6	3283.3	2924.0	2811.0
70°	471.2	481.4	514.5	598.9	895.6	2276.0	4135.5	4343.2	3781.9	3115.6	2703.8
72.5°	361.6	361.6	417.5	498.5	570.4	1363.3	3805.8	4222.2	3890.2	2931.9	2179.0
75°	260.1	267.0	327.4	429.0	525.9	684.5	2804.2	3350.6	3297.0	2376.4	1521.9
77.5°	149.4	152.9	230.4	359.4	494.0	470.0	1732.9	2271.4	2335.3	1487.6	659.4
80°	76.4	78.7	128.9	284.1	447.2	409.6	1033.6	1495.6	1268.6	432.4	152.9
82.5°	37.6	37.6	58.2	181.4	379.9	362.8	608.1	826.0	449.5	99.3	63.9
85°	12.5	13.7	26.2	102.7	274.9	219.0	371.9	392.4	150.6	37.6	35.4
87.5°	3.4	4.6	6.8	37.6	119.8	143.7	221.3	251.0	61.6	14.8	17.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5	1510.5
2.5°	1486.5	1478.5	1469.4	1446.6	1428.3	1404.4	1388.4	1375.8	1351.9	1356.5	1346.2
5°	1471.7	1456.8	1404.4	1354.2	1308.5	1238.9	1191.0	1160.2	1135.1	1110.0	1128.3
7.5°	1445.4	1410.1	1327.9	1234.4	1137.4	1046.1	954.9	900.1	860.2	823.7	822.5
10°	1400.9	1343.9	1215.0	1092.9	943.5	823.7	707.3	616.1	556.7	513.4	512.2
12.5°	1350.7	1291.4	1129.4	930.9	758.7	589.8	450.6	353.7	297.8	263.5	259.0
15°	1318.8	1232.1	1022.2	787.2	573.8	384.5	249.8	189.4	167.7	159.7	159.7
17.5°	1277.7	1178.5	916.1	637.7	398.2	222.5	162.0	146.0	144.9	142.6	140.3
20°	1260.6	1137.4	821.4	508.8	252.1	157.4	139.2	135.8	135.8	133.5	131.2
22.5°	1215.0	1078.1	721.0	373.1	167.7	138.0	131.2	126.6	124.4	122.1	124.4
25°	1194.5	1035.9	626.3	257.8	136.9	123.2	119.8	115.2	111.8	110.7	110.7
27.5°	1180.8	993.7	533.9	179.1	120.9	112.9	106.1	102.7	98.1	93.5	93.5
30°	1170.5	960.6	444.9	132.3	108.4	100.4	94.7	86.7	81.0	76.4	76.4
32.5°	1156.8	921.8	355.9	112.9	98.1	90.1	79.9	73.0	65.0	61.6	61.6
35°	1161.4	895.6	279.5	100.4	87.8	77.6	68.5	59.3	51.3	47.9	46.8
37.5°	1170.5	876.2	212.2	90.1	78.7	67.3	57.0	46.8	42.2	37.6	37.6
40°	1209.3	870.5	156.3	83.3	71.9	59.3	47.9	38.8	34.2	30.8	29.7
42.5°	1274.3	878.4	120.9	75.3	65.0	50.2	39.9	31.9	27.4	24.0	22.8
45°	1357.6	909.2	99.3	70.7	57.0	42.2	31.9	26.2	20.5	18.3	18.3
47.5°	1478.5	957.2	86.7	65.0	50.2	35.4	27.4	20.5	16.0	13.7	13.7
50°	1615.4	1011.9	76.4	58.2	43.4	29.7	21.7	16.0	11.4	10.3	10.3
52.5°	1752.3	1081.5	70.7	53.6	37.6	24.0	17.1	11.4	8.0	6.8	6.8
55°	1896.1	1143.1	63.9	50.2	30.8	19.4	12.5	6.8	4.6	3.4	3.4
57.5°	1996.5	1167.1	55.9	43.4	24.0	14.8	9.1	4.6	2.3	1.1	1.1
60°	2068.3	1170.5	47.9	35.4	18.3	11.4	5.7	2.3	1.1	0.0	0.0
62.5°	2128.8	1177.3	41.1	27.4	13.7	8.0	3.4	1.1	0.0	0.0	0.0
65°	2248.6	1171.6	33.1	21.7	9.1	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	2343.3	1114.6	26.2	14.8	5.7	2.3	1.1	0.0	0.0	0.0	0.0
70°	2072.9	849.9	20.5	10.3	3.4	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1628.0	567.0	13.7	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	1067.8	281.8	10.3	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	415.3	74.2	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	100.4	25.1	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.4	9.1	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.2	4.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	2.3	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)