

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: P676825

Luminaire Tested: **CCW-SA-2C-727-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676825  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-727-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6080.6 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

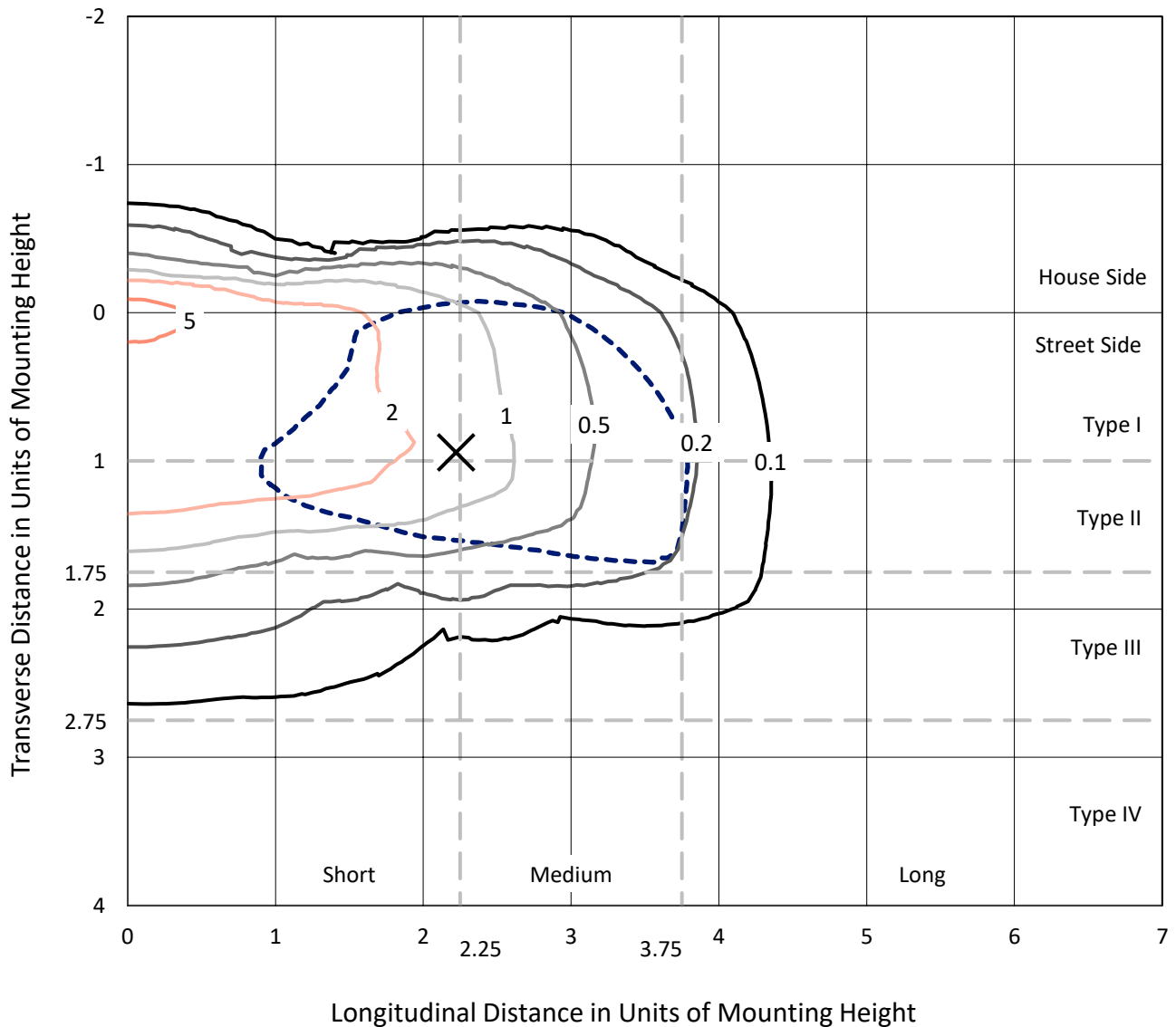
Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

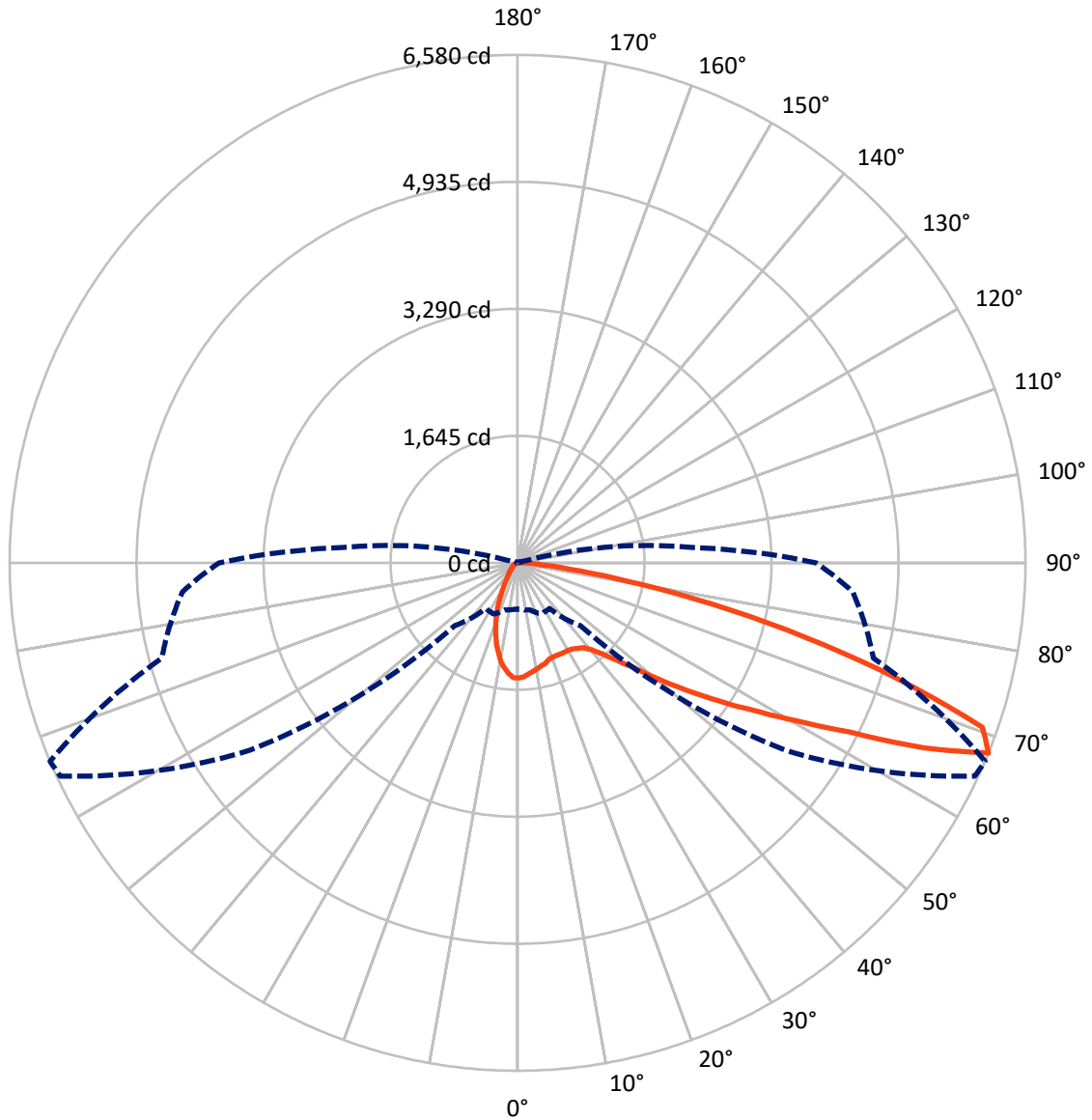
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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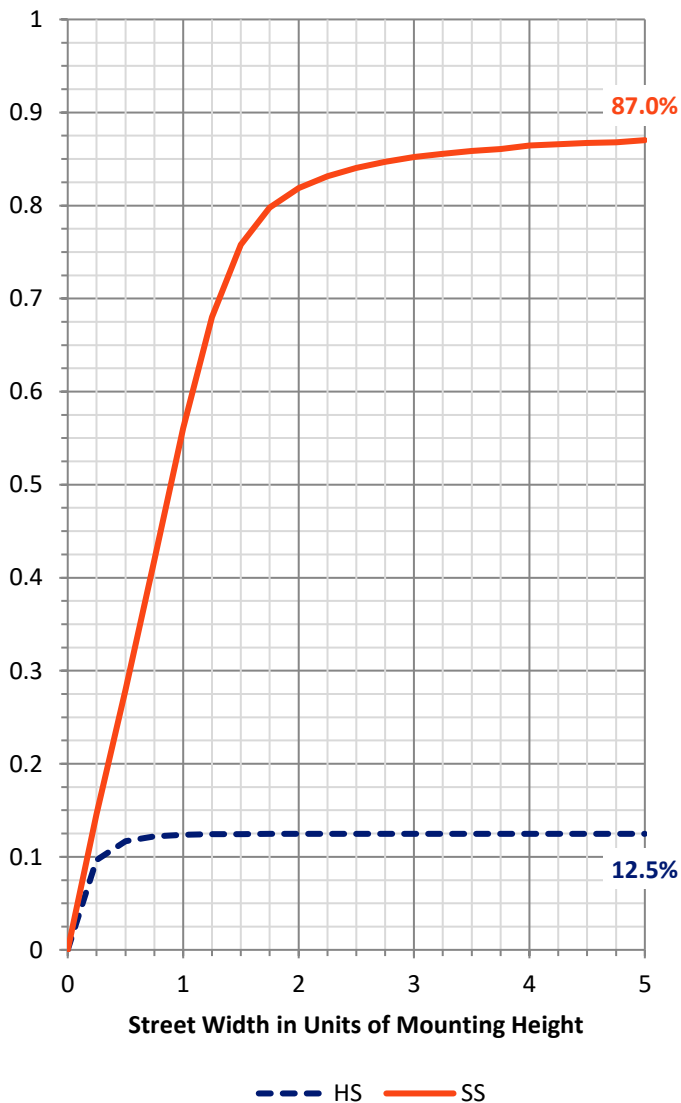
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	765.3	0.0	765.3
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	5315.3	0.0	5315.3
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	6080.6	0.0	6080.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	2.1
10°-20°	279.2	4.6
20°-30°	396.9	6.5
30°-40°	578.0	9.5
40°-50°	894.6	14.7
50°-60°	1372.9	22.6
60°-70°	1488.2	24.5
70°-80°	839.6	13.8
80°-90°	105.5	1.7
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°	6080.6	100.0
0°-180°	6080.6	100.0

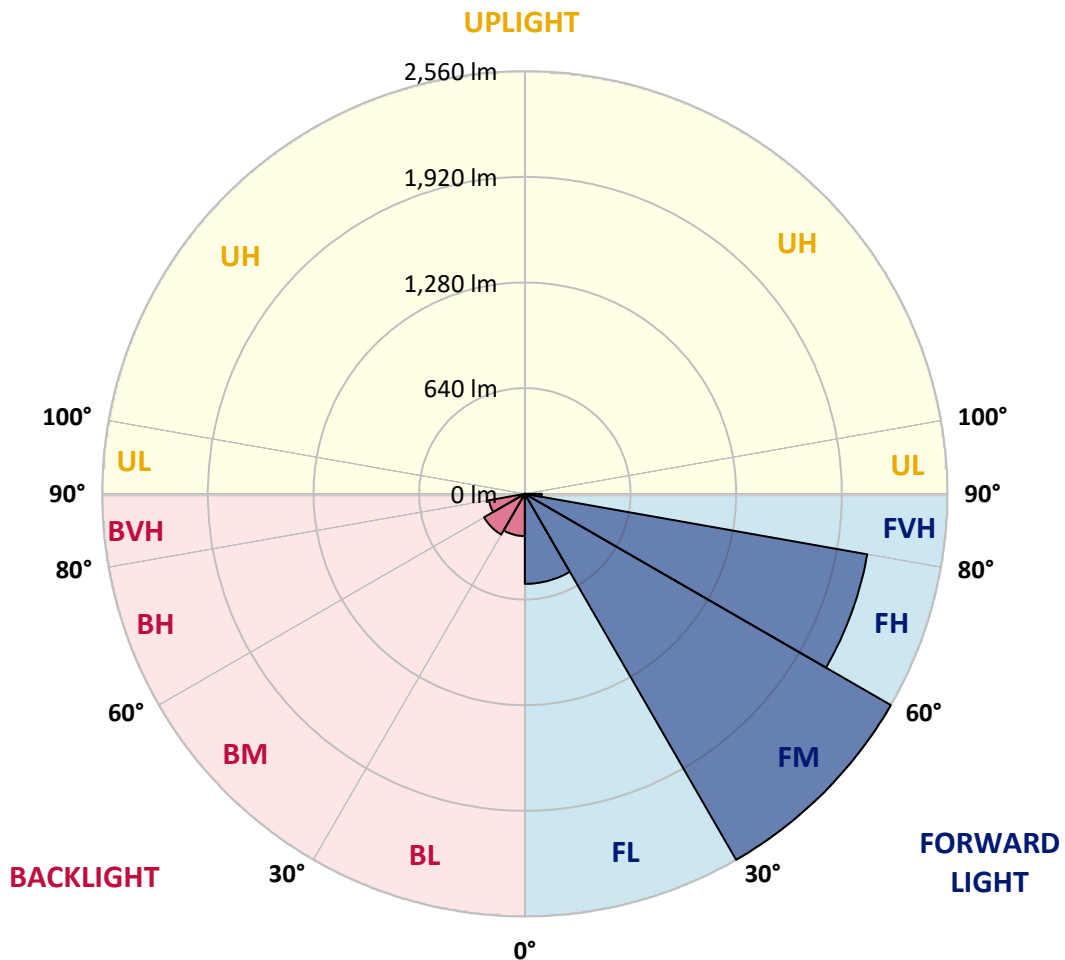


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.6	9.0			
FM (30°-60°)	2560.5	42.1			
FH (60°-80°)	2106.8	34.6			G2/5000
FVH (80°-90°)	102.5	1.7			G2/225
BL (0°-30°)	256.2	4.2	B1/500		
BM (30°-60°)	285.0	4.7	B1/1000		
BH (60°-80°)	221.1	3.6	B1/500		G1/500
BVH (80°-90°)	3.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5
2.5°	1427.0	1434.3	1444.6	1459.2	1469.5	1463.6	1468.0	1492.9	1479.7	1491.5	1485.6
5°	1347.9	1355.2	1369.8	1368.4	1380.1	1402.1	1431.4	1463.6	1449.0	1484.1	1497.3
7.5°	1265.8	1262.9	1262.9	1293.7	1318.6	1349.3	1365.5	1418.2	1419.7	1450.4	1482.7
10°	1191.1	1199.9	1214.6	1226.3	1249.7	1293.7	1340.5	1381.6	1397.7	1459.2	1468.0
12.5°	1145.7	1150.1	1167.7	1177.9	1208.7	1251.2	1301.0	1353.7	1366.9	1429.9	1472.4
15°	1126.6	1136.9	1142.8	1161.8	1177.9	1217.5	1254.1	1314.2	1352.3	1402.1	1454.8
17.5°	1141.3	1136.9	1139.8	1145.7	1164.7	1199.9	1239.5	1299.5	1312.7	1396.2	1475.3
20°	1160.3	1161.8	1153.0	1150.1	1145.7	1179.4	1211.6	1289.3	1303.9	1396.2	1488.5
22.5°	1211.6	1195.5	1211.6	1188.2	1164.7	1179.4	1210.2	1290.7	1301.0	1394.8	1501.7
25°	1274.6	1277.5	1281.9	1232.1	1198.4	1188.2	1220.4	1295.1	1303.9	1406.5	1507.6
27.5°	1364.0	1377.2	1355.2	1330.3	1262.9	1211.6	1218.9	1292.2	1308.3	1400.6	1522.2
30°	1484.1	1473.9	1476.8	1419.7	1353.7	1273.2	1252.6	1299.5	1311.2	1407.9	1550.1
32.5°	1588.1	1576.4	1596.9	1576.4	1472.4	1361.1	1292.2	1314.2	1327.4	1425.5	1573.5
35°	1652.6	1667.3	1699.5	1721.5	1633.6	1475.3	1358.1	1353.7	1359.6	1434.3	1591.1
37.5°	1752.2	1778.6	1805.0	1860.7	1784.5	1616.0	1462.1	1405.0	1394.8	1476.8	1599.9
40°	1860.7	1853.3	1931.0	1996.9	1994.0	1813.8	1607.2	1495.8	1481.2	1544.2	1658.5
42.5°	1951.5	1944.2	2030.6	2139.0	2150.7	2004.2	1772.7	1624.8	1611.6	1648.2	1730.3
45°	2070.2	2076.0	2178.6	2307.5	2350.0	2256.2	1996.9	1809.4	1802.0	1790.3	1866.5
47.5°	2175.6	2207.9	2295.8	2448.1	2602.0	2517.0	2260.6	2078.9	2027.7	2001.3	2077.5
50°	2248.9	2278.2	2385.2	2547.8	2829.1	2883.3	2556.6	2366.1	2367.6	2303.1	2344.1
52.5°	2248.9	2247.4	2333.9	2547.8	2987.3	3265.7	2952.1	2728.0	2739.7	2672.3	2675.2
55°	2032.1	2027.7	2133.2	2360.2	2969.7	3633.4	3551.4	3186.5	3157.2	3026.9	3040.0
57.5°	1636.5	1646.7	1727.3	1999.8	2741.2	3804.8	4264.8	3702.3	3602.6	3333.1	3333.1
60°	1194.0	1185.2	1245.3	1435.8	2196.2	3740.3	4850.9	4310.3	4153.5	3586.5	3548.4
62.5°	908.3	906.9	923.0	987.5	1393.3	3261.3	5102.9	5083.8	4828.9	3835.6	3781.4
65°	734.0	736.9	758.9	804.3	851.2	2224.0	4969.6	6006.8	5773.9	4206.2	4029.0
67.5°	599.2	606.5	632.9	731.1	720.8	1151.6	4232.6	6535.7	6579.7	4771.8	4361.5
70°	461.5	473.2	504.0	643.2	694.4	766.2	2934.6	6272.0	6389.2	5123.4	4160.8
72.5°	313.5	312.1	378.0	521.6	701.8	701.8	1633.6	5051.6	5162.9	4723.4	3614.4
75°	169.9	180.2	250.5	394.1	643.2	678.3	930.3	3696.4	3853.2	3673.0	2795.4
77.5°	92.3	93.8	139.2	257.9	534.8	647.6	621.2	2514.1	2575.6	2215.2	1531.0
80°	48.3	49.8	73.3	168.5	369.2	600.7	517.2	1498.8	1440.2	849.7	505.5
82.5°	22.0	23.4	36.6	105.5	235.9	473.2	446.8	723.7	668.1	237.3	153.8
85°	8.8	8.8	16.1	63.0	137.7	232.9	382.4	363.3	303.3	71.8	76.2
87.5°	2.9	2.9	4.4	24.9	55.7	139.2	203.6	191.9	131.9	26.4	41.0
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°	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5
2.5°	1479.7	1495.8	1491.5	1488.5	1460.7	1457.8	1454.8	1428.5	1437.2	1415.3	1429.9
5°	1488.5	1497.3	1473.9	1429.9	1390.4	1346.4	1312.7	1289.3	1246.8	1230.7	1227.7
7.5°	1479.7	1479.7	1431.4	1361.1	1283.4	1211.6	1120.8	1056.3	1008.0	971.3	984.5
10°	1468.0	1450.4	1400.6	1276.1	1135.4	1027.0	896.6	801.4	729.6	706.2	691.5
12.5°	1468.0	1437.2	1325.9	1155.9	974.3	810.2	654.9	530.4	461.5	420.5	414.6
15°	1454.8	1409.4	1271.7	1043.1	817.5	594.8	417.5	310.6	252.0	235.9	230.0
17.5°	1457.8	1403.5	1191.1	909.8	634.4	395.6	254.9	196.3	181.7	174.3	175.8
20°	1463.6	1403.5	1119.3	779.4	457.1	246.1	175.8	165.6	158.2	155.3	156.8
22.5°	1482.7	1375.7	1046.1	646.1	309.1	177.3	155.3	145.0	139.2	134.8	133.3
25°	1485.6	1371.3	975.7	514.2	212.4	149.4	136.3	124.5	117.2	111.3	109.9
27.5°	1481.2	1352.3	877.6	382.4	159.7	133.3	115.7	104.0	93.8	89.4	87.9
30°	1497.3	1317.1	794.1	275.4	134.8	115.7	98.2	85.0	76.2	70.3	70.3
32.5°	1498.8	1286.3	701.8	196.3	123.1	102.6	83.5	68.9	60.1	57.1	57.1
35°	1500.2	1258.5	599.2	149.4	109.9	87.9	68.9	57.1	51.3	46.9	46.9
37.5°	1504.6	1238.0	505.5	126.0	98.2	74.7	57.1	46.9	41.0	39.6	39.6
40°	1513.4	1210.2	407.3	111.3	85.0	63.0	48.3	39.6	33.7	32.2	30.8
42.5°	1536.9	1202.8	325.2	99.6	76.2	52.7	39.6	32.2	27.8	24.9	23.4
45°	1633.6	1221.9	252.0	92.3	64.5	44.0	33.7	26.4	20.5	19.0	17.6
47.5°	1791.8	1284.9	199.3	82.0	54.2	36.6	27.8	20.5	16.1	14.7	13.2
50°	2032.1	1428.5	162.6	73.3	45.4	30.8	22.0	16.1	11.7	10.3	10.3
52.5°	2347.1	1621.8	140.6	64.5	36.6	26.4	17.6	11.7	8.8	7.3	7.3
55°	2669.4	1850.4	131.9	55.7	30.8	22.0	13.2	8.8	5.9	4.4	4.4
57.5°	2965.3	1998.4	127.5	45.4	26.4	16.1	10.3	5.9	2.9	1.5	1.5
60°	3149.9	2106.8	114.3	36.6	20.5	13.2	7.3	2.9	1.5	0.0	0.0
62.5°	3393.1	2216.7	93.8	27.8	14.7	8.8	4.4	1.5	0.0	0.0	0.0
65°	3714.0	2339.7	73.3	22.0	11.7	5.9	2.9	1.5	0.0	0.0	0.0
67.5°	3867.8	2275.3	49.8	16.1	7.3	2.9	1.5	0.0	0.0	0.0	0.0
70°	3560.1	1916.3	35.2	11.7	4.4	1.5	1.5	0.0	0.0	0.0	0.0
72.5°	2993.2	1501.7	26.4	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0
75°	2206.4	939.1	20.5	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1170.6	350.2	14.7	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	345.8	102.6	10.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	114.3	30.8	5.9	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.6	11.7	2.9	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.7	4.4	2.9	2.9	1.5	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)