

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: P677076

Luminaire Tested: **CCW-SA-1F-850-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677076
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-850-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

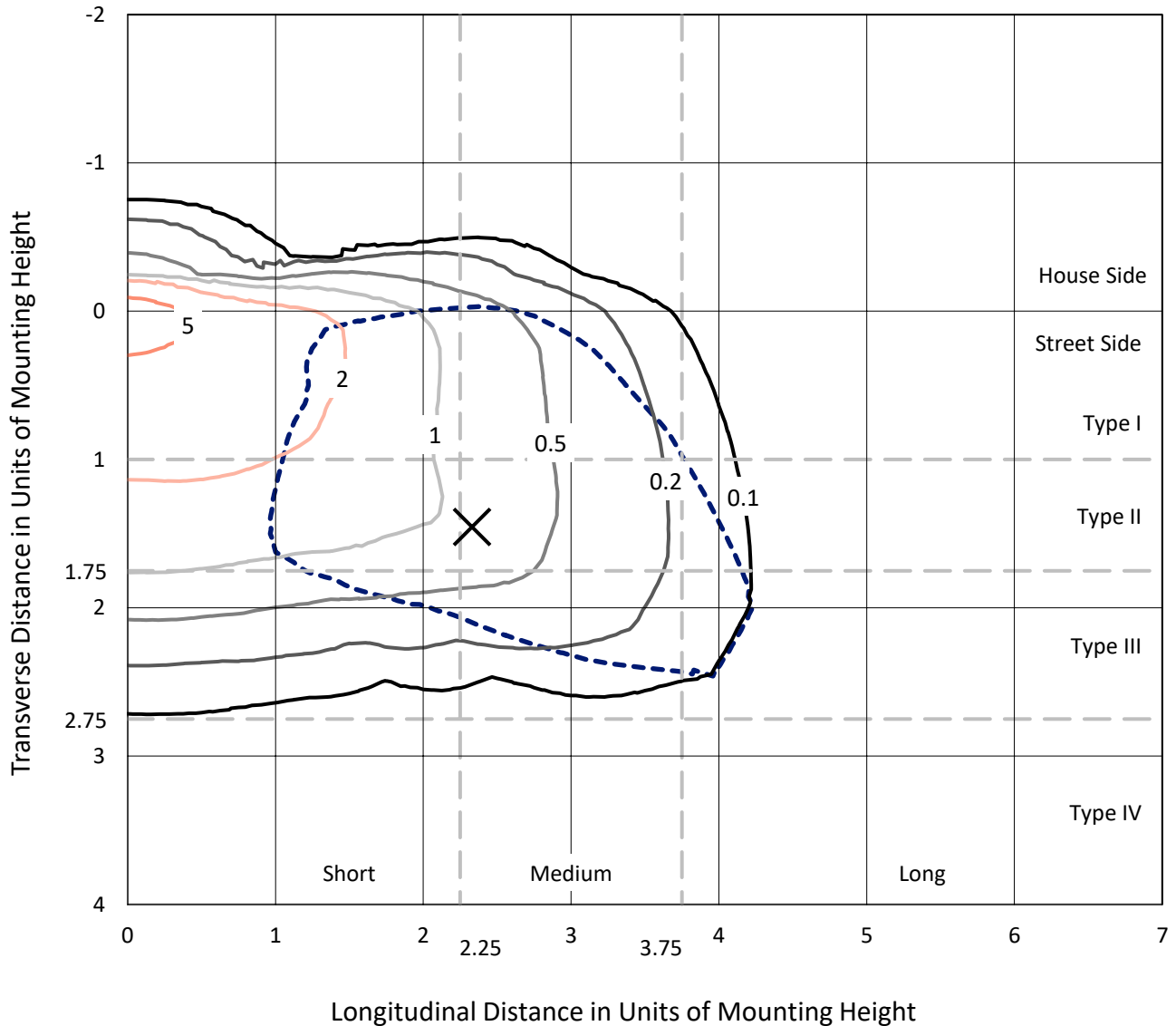
Lumens per Lamp: N/A
Luminaire Lumens: 5406.3 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

REPORT NUMBER: P677076
 CATALOG NUMBER: CCW-SA-1F-850-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

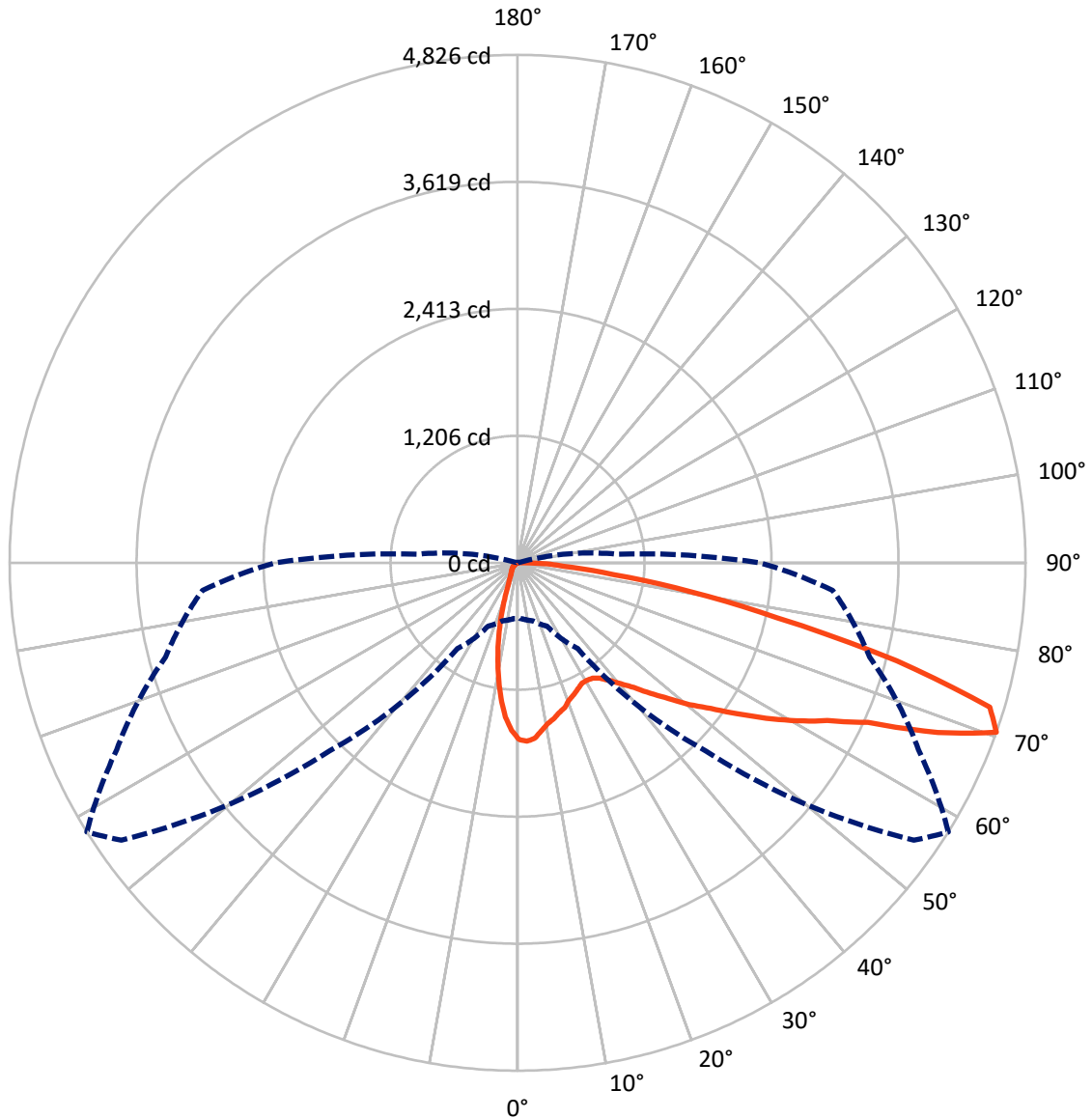
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P677076
CATALOG NUMBER: CCW-SA-1F-850-U-SL3-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: CCW-SA-1F-850-U-SL3-HSS

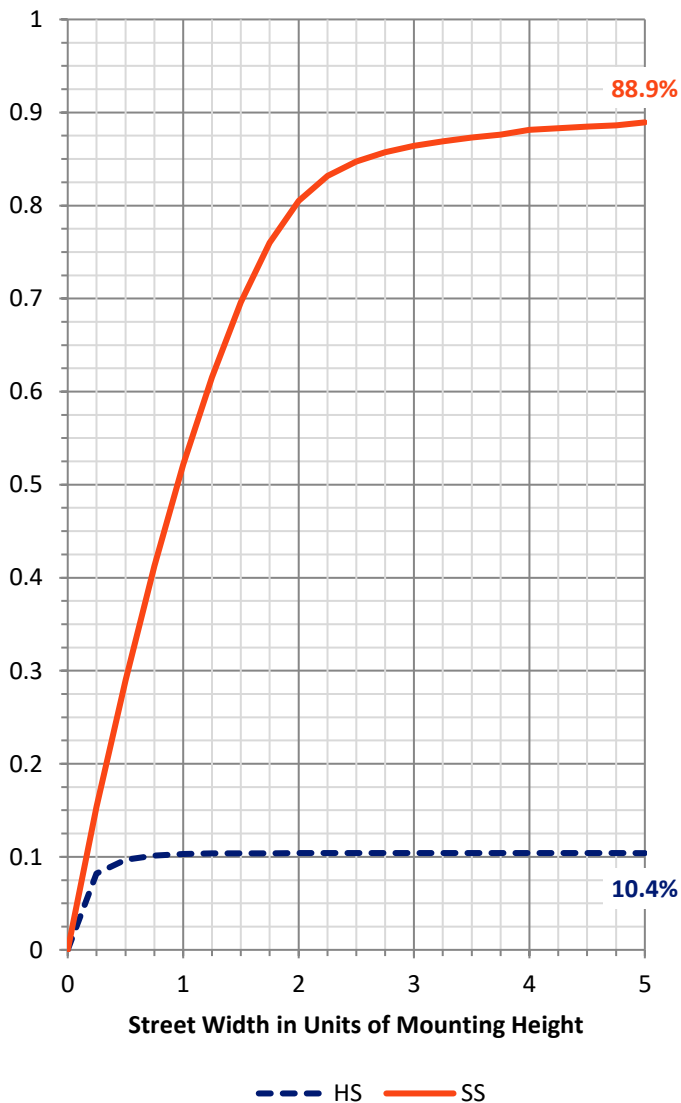
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.1	0.0	566.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4840.2	0.0	4840.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	5406.3	0.0	5406.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	2.5
10°-20°	285.1	5.3
20°-30°	381.7	7.1
30°-40°	516.0	9.5
40°-50°	740.6	13.7
50°-60°	1091.4	20.2
60°-70°	1331.2	24.6
70°-80°	812.9	15.0
80°-90°	110.4	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°	5406.3	100.0
0°-180°	5406.3	100.0

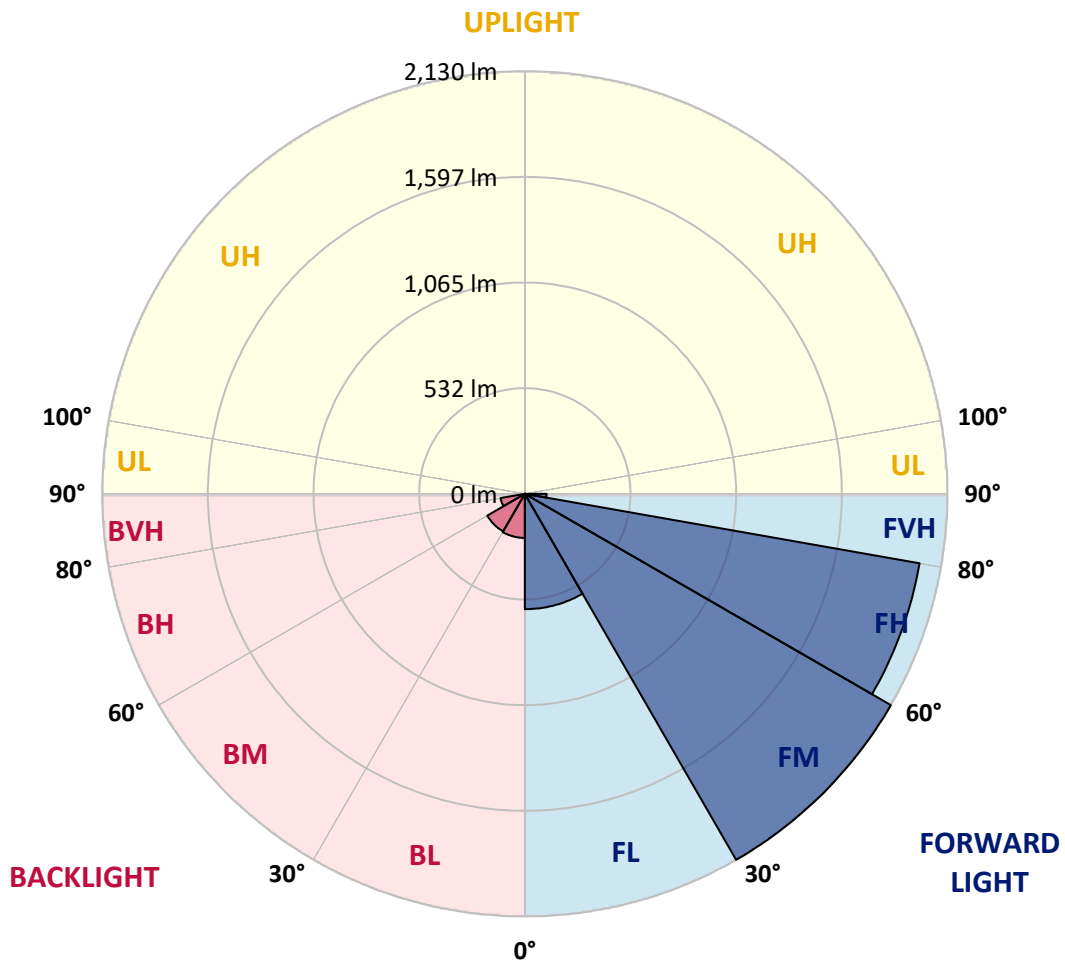


REPORT NUMBER: P677076
 CATALOG NUMBER: CCW-SA-1F-850-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.3	10.8			
FM (30°-60°)	2129.5	39.4			
FH (60°-80°)	2020.1	37.4			G2/5000
FVH (80°-90°)	109.4	2.0			G2/225
BL (0°-30°)	222.5	4.1	B1/500		
BM (30°-60°)	218.5	4.0	B0/220		
BH (60°-80°)	124.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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





REPORT NUMBER: P677076

CATALOG NUMBER: CCW-SA-1F-850-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3
2.5°	1708.7	1715.1	1699.8	1717.6	1701.1	1708.7	1699.8	1697.3	1698.6	1699.8	1689.7
5°	1628.9	1644.1	1650.4	1640.3	1664.3	1660.5	1675.8	1677.0	1670.7	1664.3	1665.6
7.5°	1523.6	1538.9	1545.2	1551.5	1575.6	1607.3	1627.6	1614.9	1625.1	1647.9	1613.6
10°	1447.6	1443.8	1442.5	1455.2	1500.8	1527.4	1561.7	1557.9	1583.2	1604.8	1576.9
12.5°	1353.8	1346.2	1369.0	1379.1	1419.7	1466.6	1493.2	1521.1	1546.5	1569.3	1537.6
15°	1284.1	1290.4	1299.3	1320.8	1350.0	1412.1	1451.4	1478.0	1523.6	1535.1	1522.4
17.5°	1228.3	1233.4	1246.0	1257.5	1294.2	1353.8	1415.9	1447.6	1495.8	1526.2	1486.9
20°	1229.6	1214.4	1214.4	1225.8	1246.0	1317.0	1382.9	1393.1	1459.0	1511.0	1484.4
22.5°	1230.8	1225.8	1214.4	1213.1	1222.0	1272.7	1339.8	1362.7	1433.6	1494.5	1462.8
25°	1248.6	1229.6	1230.8	1213.1	1216.9	1242.2	1295.5	1329.7	1410.8	1503.4	1451.4
27.5°	1263.8	1272.7	1254.9	1247.3	1225.8	1224.5	1268.9	1298.0	1399.4	1523.6	1459.0
30°	1298.0	1304.4	1304.4	1299.3	1279.0	1249.8	1260.0	1296.7	1376.6	1519.8	1446.3
32.5°	1355.1	1343.6	1358.9	1351.3	1324.6	1279.0	1287.9	1306.9	1390.5	1568.0	1466.6
35°	1374.1	1382.9	1403.2	1386.7	1377.9	1351.3	1333.5	1347.5	1410.8	1616.2	1497.0
37.5°	1432.4	1419.7	1433.6	1470.4	1479.3	1431.1	1396.9	1417.2	1486.9	1673.2	1524.9
40°	1437.5	1447.6	1472.9	1545.2	1554.1	1533.8	1505.9	1511.0	1562.9	1746.7	1594.6
42.5°	1462.8	1474.2	1526.2	1587.0	1635.2	1639.0	1618.7	1618.7	1663.1	1864.6	1672.0
45°	1512.2	1493.2	1560.4	1663.1	1732.8	1746.7	1773.4	1767.0	1802.5	1988.9	1816.5
47.5°	1531.3	1537.6	1611.1	1735.3	1815.2	1879.8	1924.2	1925.5	1943.2	2147.3	2004.1
50°	1593.4	1592.1	1680.8	1796.2	1914.1	2032.0	2118.1	2118.1	2116.9	2301.9	2165.0
52.5°	1675.8	1673.2	1741.7	1878.6	2032.0	2180.3	2294.3	2298.1	2327.3	2492.1	2350.1
55°	1810.1	1798.7	1864.6	1966.0	2149.8	2329.8	2527.6	2528.8	2506.0	2627.7	2483.2
57.5°	1922.9	1921.7	1976.2	2073.8	2281.7	2522.5	2751.9	2786.2	2713.9	2767.2	2589.7
60°	1893.8	1910.3	2023.1	2167.6	2421.1	2763.4	2994.1	3047.3	2931.9	2862.2	2669.6
62.5°	1712.5	1750.5	1873.5	2104.2	2539.0	3113.2	3327.4	3303.3	3046.0	2943.4	2767.2
65°	1232.1	1270.1	1422.2	1768.3	2402.1	3360.4	3766.0	3657.0	3248.8	3063.8	2897.7
67.5°	725.1	740.3	835.3	1128.2	1796.2	3226.0	4298.4	4307.3	3648.1	3248.8	3123.3
70°	523.5	534.9	571.7	665.5	995.1	2528.8	4595.0	4825.7	4202.1	3461.8	3004.2
72.5°	401.8	401.8	463.9	553.9	633.8	1514.8	4228.7	4691.4	4322.5	3257.7	2421.1
75°	289.0	296.6	363.8	476.6	584.4	760.6	3115.7	3722.9	3663.3	2640.4	1691.0
77.5°	166.1	169.9	256.1	399.3	548.9	522.2	1925.5	2523.8	2594.8	1652.9	732.7
80°	84.9	87.5	143.2	315.6	496.9	455.1	1148.4	1661.8	1409.6	480.4	169.9
82.5°	41.8	41.8	64.6	201.5	422.1	403.1	675.6	917.7	499.4	110.3	71.0
85°	13.9	15.2	29.2	114.1	305.5	243.4	413.2	436.1	167.3	41.8	39.3
87.5°	3.8	5.1	7.6	41.8	133.1	159.7	245.9	278.9	68.5	16.5	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677076
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3
2.5°	1651.7	1642.8	1632.7	1607.3	1587.0	1560.4	1542.7	1528.7	1502.1	1507.2	1495.8
5°	1635.2	1618.7	1560.4	1504.6	1453.9	1376.6	1323.4	1289.1	1261.3	1233.4	1253.6
7.5°	1606.0	1566.7	1475.5	1371.5	1263.8	1162.4	1061.0	1000.1	955.8	915.2	913.9
10°	1556.6	1493.2	1350.0	1214.4	1048.3	915.2	785.9	684.5	618.6	570.4	569.1
12.5°	1500.8	1434.9	1254.9	1034.4	842.9	655.3	500.7	393.0	330.8	292.8	287.7
15°	1465.3	1369.0	1135.8	874.6	637.6	427.2	277.6	210.4	186.3	177.5	177.5
17.5°	1419.7	1309.4	1017.9	708.6	442.4	247.2	180.0	162.3	161.0	158.4	155.9
20°	1400.7	1263.8	912.7	565.3	280.1	174.9	154.6	150.8	150.8	148.3	145.8
22.5°	1350.0	1197.9	801.1	414.5	186.3	153.4	145.8	140.7	138.2	135.6	138.2
25°	1327.2	1151.0	695.9	286.5	152.1	136.9	133.1	128.0	124.2	123.0	123.0
27.5°	1312.0	1104.1	593.2	199.0	134.4	125.5	117.9	114.1	109.0	103.9	103.9
30°	1300.6	1067.3	494.4	147.0	120.4	111.5	105.2	96.3	90.0	84.9	84.9
32.5°	1285.3	1024.2	395.5	125.5	109.0	100.1	88.7	81.1	72.3	68.5	68.5
35°	1290.4	995.1	310.6	111.5	97.6	86.2	76.1	65.9	57.0	53.2	52.0
37.5°	1300.6	973.5	235.8	100.1	87.5	74.8	63.4	52.0	46.9	41.8	41.8
40°	1343.6	967.2	173.7	92.5	79.9	65.9	53.2	43.1	38.0	34.2	33.0
42.5°	1415.9	976.0	134.4	83.7	72.3	55.8	44.4	35.5	30.4	26.6	25.4
45°	1508.4	1010.3	110.3	78.6	63.4	46.9	35.5	29.2	22.8	20.3	20.3
47.5°	1642.8	1063.5	96.3	72.3	55.8	39.3	30.4	22.8	17.7	15.2	15.2
50°	1794.9	1124.4	84.9	64.6	48.2	33.0	24.1	17.7	12.7	11.4	11.4
52.5°	1947.0	1201.7	78.6	59.6	41.8	26.6	19.0	12.7	8.9	7.6	7.6
55°	2106.7	1270.1	71.0	55.8	34.2	21.5	13.9	7.6	5.1	3.8	3.8
57.5°	2218.3	1296.7	62.1	48.2	26.6	16.5	10.1	5.1	2.5	1.3	1.3
60°	2298.1	1300.6	53.2	39.3	20.3	12.7	6.3	2.5	1.3	0.0	0.0
62.5°	2365.3	1308.2	45.6	30.4	15.2	8.9	3.8	1.3	0.0	0.0	0.0
65°	2498.4	1301.8	36.8	24.1	10.1	5.1	2.5	0.0	0.0	0.0	0.0
67.5°	2603.6	1238.4	29.2	16.5	6.3	2.5	1.3	0.0	0.0	0.0	0.0
70°	2303.2	944.4	22.8	11.4	3.8	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1808.9	630.0	15.2	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0
75°	1186.5	313.1	11.4	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	461.4	82.4	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.5	27.9	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.2	10.1	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.2	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.2	2.5	1.3	1.3	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)