

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: P677065

Luminaire Tested: **CCW-SA-1F-840-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677065
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5282.4 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

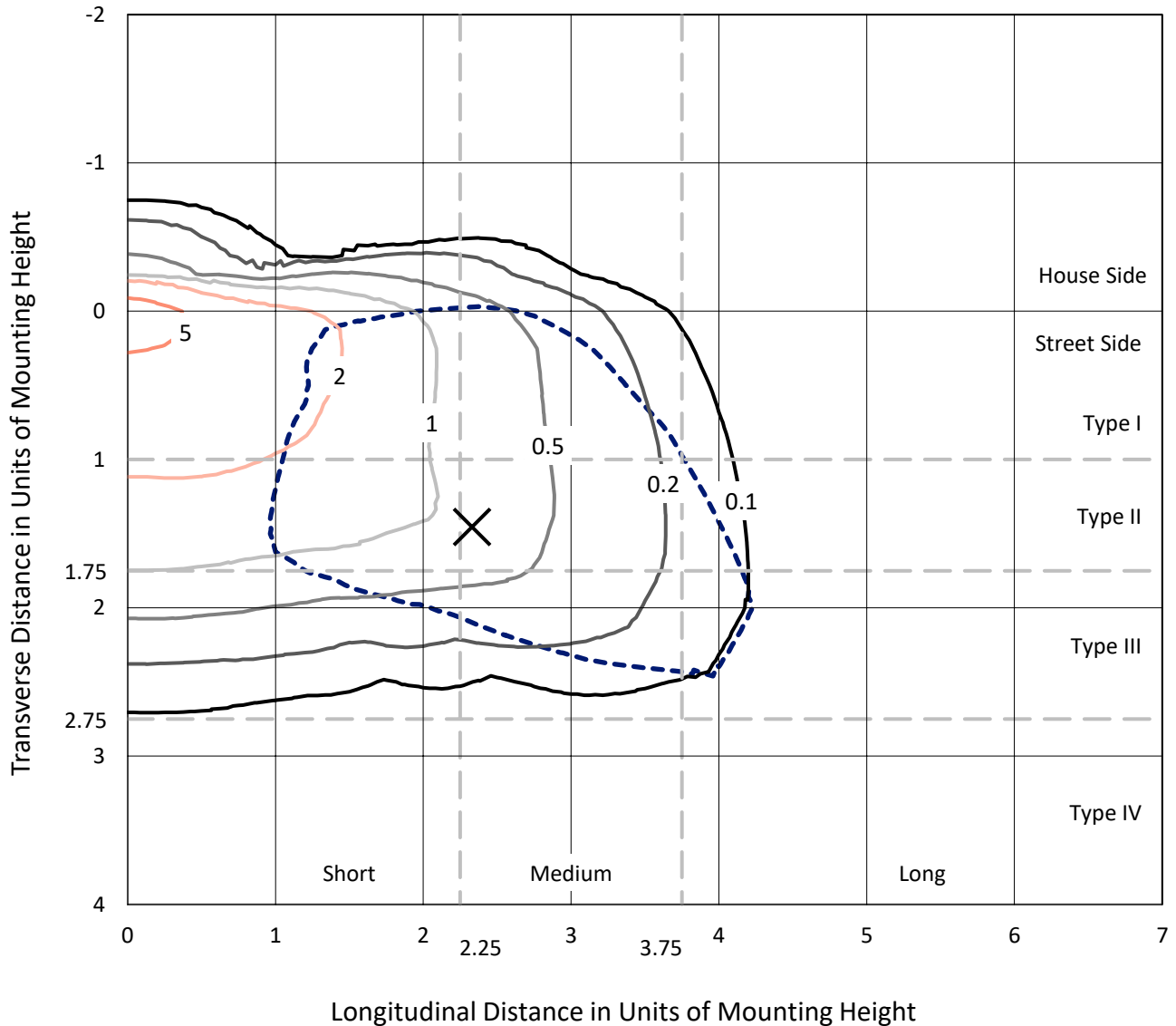
Input Watts (W): 67
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

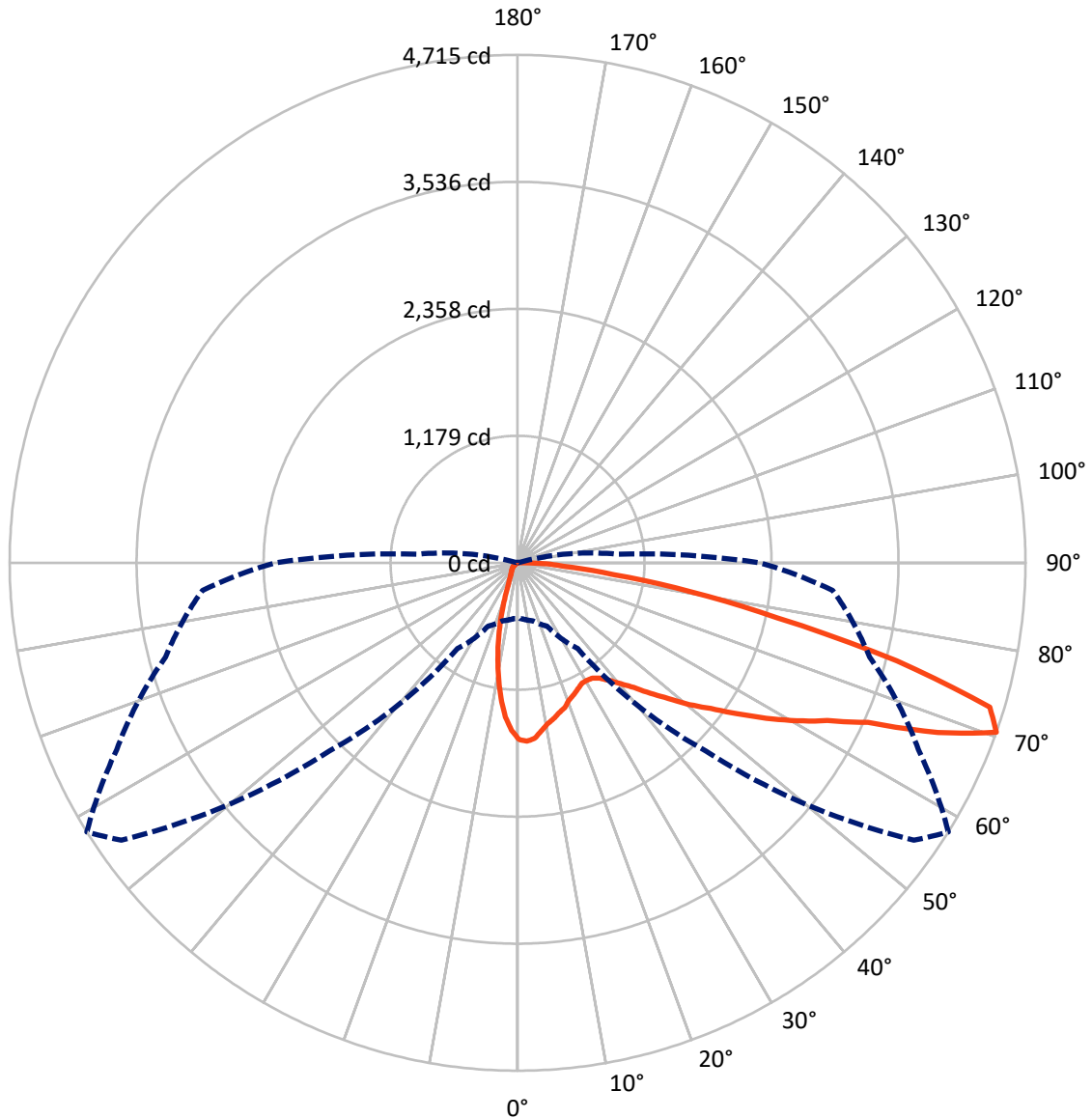
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 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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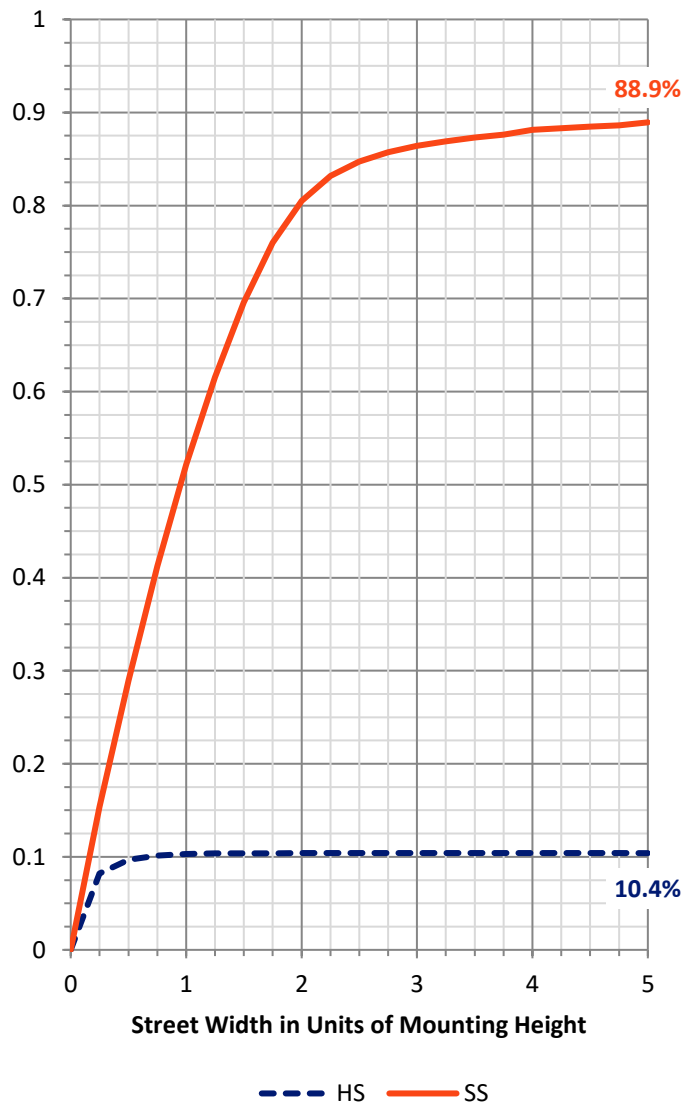
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	553.2	0.0	553.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4729.3	0.0	4729.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	5282.4	0.0	5282.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	2.5
10°-20°	278.6	5.3
20°-30°	373.0	7.1
30°-40°	504.2	9.5
40°-50°	723.6	13.7
50°-60°	1066.4	20.2
60°-70°	1300.7	24.6
70°-80°	794.3	15.0
80°-90°	107.9	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°	5282.4	100.0
0°-180°	5282.4	100.0

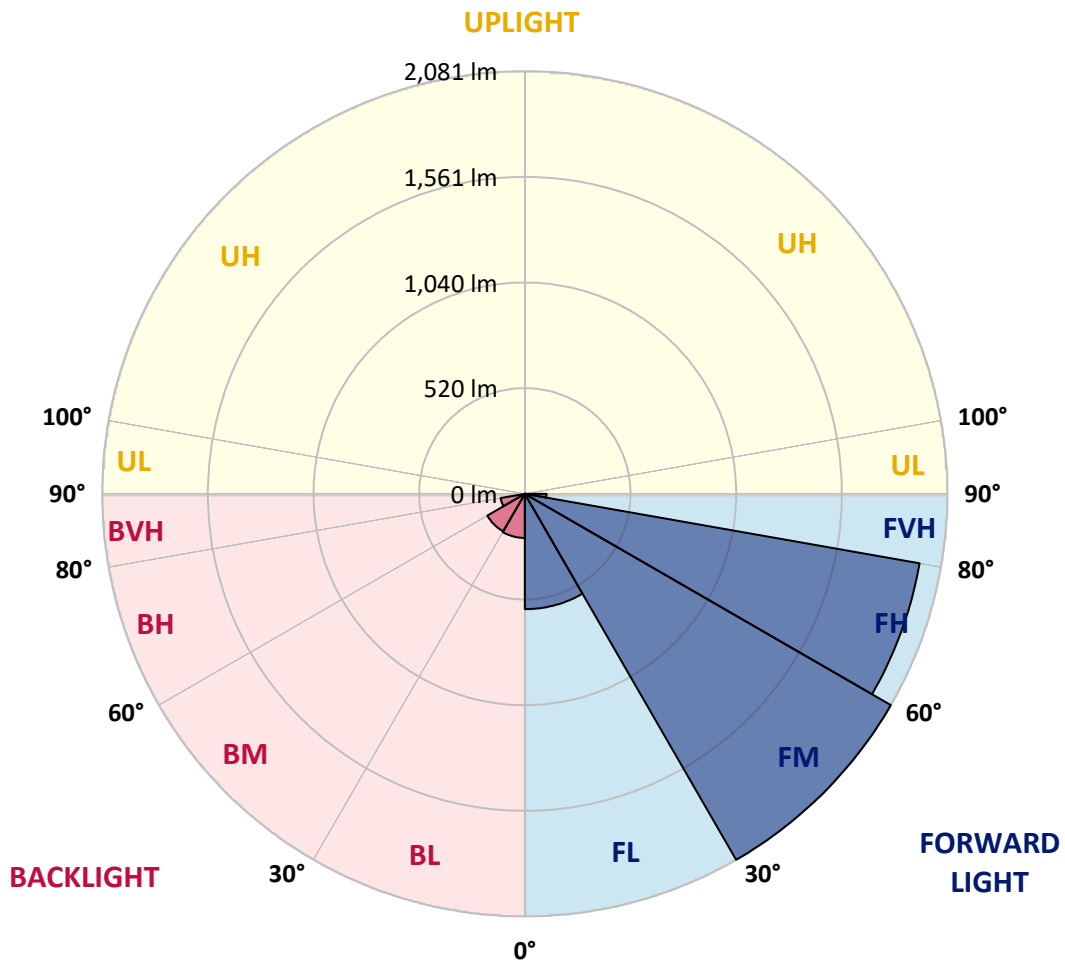


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.9	10.8			
FM (30°-60°)	2080.7	39.4			
FH (60°-80°)	1973.8	37.4			G2/5000
FVH (80°-90°)	106.9	2.0			G2/225
BL (0°-30°)	217.4	4.1	B1/500		
BM (30°-60°)	213.5	4.0	B0/220		
BH (60°-80°)	121.2	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°	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8
2.5°	1669.6	1675.7	1660.9	1678.2	1662.1	1669.6	1660.9	1658.4	1659.6	1660.9	1651.0
5°	1591.5	1606.4	1612.6	1602.7	1626.2	1622.5	1637.3	1638.6	1632.4	1626.2	1627.4
7.5°	1488.7	1503.6	1509.8	1516.0	1539.5	1570.5	1590.3	1577.9	1587.8	1610.1	1576.7
10°	1414.4	1410.7	1409.5	1421.8	1466.4	1492.4	1525.9	1522.2	1546.9	1568.0	1540.7
12.5°	1322.8	1315.3	1337.6	1347.5	1387.2	1433.0	1459.0	1486.2	1511.0	1533.3	1502.3
15°	1254.6	1260.8	1269.5	1290.6	1319.0	1379.7	1418.1	1444.1	1488.7	1499.9	1487.5
17.5°	1200.1	1205.1	1217.5	1228.6	1264.5	1322.8	1383.4	1414.4	1461.5	1491.2	1452.8
20°	1201.4	1186.5	1186.5	1197.7	1217.5	1286.8	1351.2	1361.2	1425.6	1476.3	1450.3
22.5°	1202.6	1197.7	1186.5	1185.3	1194.0	1243.5	1309.1	1331.4	1400.8	1460.2	1429.3
25°	1220.0	1201.4	1202.6	1185.3	1189.0	1213.8	1265.8	1299.2	1378.5	1468.9	1418.1
27.5°	1234.8	1243.5	1226.2	1218.7	1197.7	1196.4	1239.8	1268.3	1367.3	1488.7	1425.6
30°	1268.3	1274.5	1274.5	1269.5	1249.7	1221.2	1231.1	1267.0	1345.1	1485.0	1413.2
32.5°	1324.0	1312.9	1327.7	1320.3	1294.3	1249.7	1258.4	1276.9	1358.7	1532.1	1433.0
35°	1342.6	1351.2	1371.1	1355.0	1346.3	1320.3	1302.9	1316.6	1378.5	1579.1	1462.7
37.5°	1399.5	1387.2	1400.8	1436.7	1445.4	1398.3	1364.9	1384.7	1452.8	1634.9	1490.0
40°	1404.5	1414.4	1439.2	1509.8	1518.4	1498.6	1471.4	1476.3	1527.1	1706.7	1558.1
42.5°	1429.3	1440.4	1491.2	1550.7	1597.7	1601.4	1581.6	1581.6	1625.0	1821.9	1633.6
45°	1477.6	1459.0	1524.6	1625.0	1693.1	1706.7	1732.7	1726.5	1761.2	1943.3	1774.8
47.5°	1496.2	1502.3	1574.2	1695.6	1773.6	1836.8	1880.1	1881.3	1898.7	2098.1	1958.1
50°	1556.8	1555.6	1642.3	1755.0	1870.2	1985.4	2069.6	2069.6	2068.4	2249.2	2115.4
52.5°	1637.3	1634.9	1701.8	1835.5	1985.4	2130.3	2241.8	2245.5	2274.0	2435.0	2296.3
55°	1768.6	1757.5	1821.9	1921.0	2100.6	2276.4	2469.6	2470.9	2448.6	2567.5	2426.3
57.5°	1878.9	1877.6	1930.9	2026.3	2229.4	2464.7	2688.9	2722.3	2651.7	2703.7	2530.3
60°	1850.4	1866.5	1976.7	2117.9	2365.6	2700.0	2925.4	2977.4	2864.7	2796.6	2608.4
62.5°	1673.3	1710.4	1830.6	2056.0	2480.8	3041.9	3251.2	3227.6	2976.2	2875.9	2703.7
65°	1203.9	1241.0	1389.6	1727.8	2347.0	3283.4	3679.7	3573.2	3174.4	2993.6	2831.3
67.5°	708.4	723.3	816.2	1102.3	1755.0	3152.1	4199.9	4208.6	3564.5	3174.4	3051.8
70°	511.5	522.7	558.6	650.2	972.3	2470.9	4489.7	4715.1	4105.8	3382.5	2935.3
72.5°	392.6	392.6	453.3	541.2	619.3	1480.1	4131.8	4583.8	4223.4	3183.0	2365.6
75°	282.4	289.8	355.5	465.7	571.0	743.1	3044.3	3637.6	3579.4	2579.9	1652.2
77.5°	162.2	166.0	250.2	390.1	536.3	510.3	1881.3	2465.9	2535.3	1615.1	715.9
80°	83.0	85.5	140.0	308.4	485.5	444.6	1122.1	1623.7	1377.3	469.4	166.0
82.5°	40.9	40.9	63.2	196.9	412.4	393.9	660.1	896.7	488.0	107.8	69.4
85°	13.6	14.9	28.5	111.5	298.5	237.8	403.8	426.1	163.5	40.9	38.4
87.5°	3.7	5.0	7.4	40.9	130.0	156.1	240.3	272.5	66.9	16.1	18.6
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°	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8
2.5°	1613.8	1605.1	1595.2	1570.5	1550.7	1524.6	1507.3	1493.7	1467.7	1472.6	1461.5
5°	1597.7	1581.6	1524.6	1470.1	1420.6	1345.1	1293.0	1259.6	1232.3	1205.1	1224.9
7.5°	1569.2	1530.8	1441.7	1340.1	1234.8	1135.7	1036.7	977.2	933.9	894.2	893.0
10°	1520.9	1459.0	1319.0	1186.5	1024.3	894.2	767.9	668.8	604.4	557.3	556.1
12.5°	1466.4	1402.0	1226.2	1010.6	823.6	640.3	489.2	383.9	323.3	286.1	281.1
15°	1431.8	1337.6	1109.7	854.6	623.0	417.4	271.2	205.6	182.1	173.4	173.4
17.5°	1387.2	1279.4	994.5	692.3	432.3	241.5	175.9	158.5	157.3	154.8	152.3
20°	1368.6	1234.8	891.7	552.4	273.7	170.9	151.1	147.4	147.4	144.9	142.4
22.5°	1319.0	1170.4	782.8	405.0	182.1	149.9	142.4	137.5	135.0	132.5	135.0
25°	1296.8	1124.6	680.0	279.9	148.6	133.8	130.0	125.1	121.4	120.1	120.1
27.5°	1281.9	1078.8	579.6	194.5	131.3	122.6	115.2	111.5	106.5	101.6	101.6
30°	1270.7	1042.9	483.0	143.7	117.7	109.0	102.8	94.1	87.9	83.0	83.0
32.5°	1255.9	1000.7	386.4	122.6	106.5	97.8	86.7	79.3	70.6	66.9	66.9
35°	1260.8	972.3	303.4	109.0	95.4	84.2	74.3	64.4	55.7	52.0	50.8
37.5°	1270.7	951.2	230.4	97.8	85.5	73.1	61.9	50.8	45.8	40.9	40.9
40°	1312.9	945.0	169.7	90.4	78.0	64.4	52.0	42.1	37.2	33.4	32.2
42.5°	1383.4	953.7	131.3	81.7	70.6	54.5	43.3	34.7	29.7	26.0	24.8
45°	1473.9	987.1	107.8	76.8	61.9	45.8	34.7	28.5	22.3	19.8	19.8
47.5°	1605.1	1039.1	94.1	70.6	54.5	38.4	29.7	22.3	17.3	14.9	14.9
50°	1753.8	1098.6	83.0	63.2	47.1	32.2	23.5	17.3	12.4	11.1	11.1
52.5°	1902.4	1174.1	76.8	58.2	40.9	26.0	18.6	12.4	8.7	7.4	7.4
55°	2058.5	1241.0	69.4	54.5	33.4	21.1	13.6	7.4	5.0	3.7	3.7
57.5°	2167.4	1267.0	60.7	47.1	26.0	16.1	9.9	5.0	2.5	1.2	1.2
60°	2245.5	1270.7	52.0	38.4	19.8	12.4	6.2	2.5	1.2	0.0	0.0
62.5°	2311.1	1278.2	44.6	29.7	14.9	8.7	3.7	1.2	0.0	0.0	0.0
65°	2441.2	1272.0	35.9	23.5	9.9	5.0	2.5	0.0	0.0	0.0	0.0
67.5°	2544.0	1210.1	28.5	16.1	6.2	2.5	1.2	0.0	0.0	0.0	0.0
70°	2250.4	922.7	22.3	11.1	3.7	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1767.4	615.6	14.9	6.2	2.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	1159.3	305.9	11.1	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	450.8	80.5	7.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.0	27.2	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.1	9.9	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.5	5.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	2.5	1.2	1.2	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)