

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: P677075

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677075
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-850-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

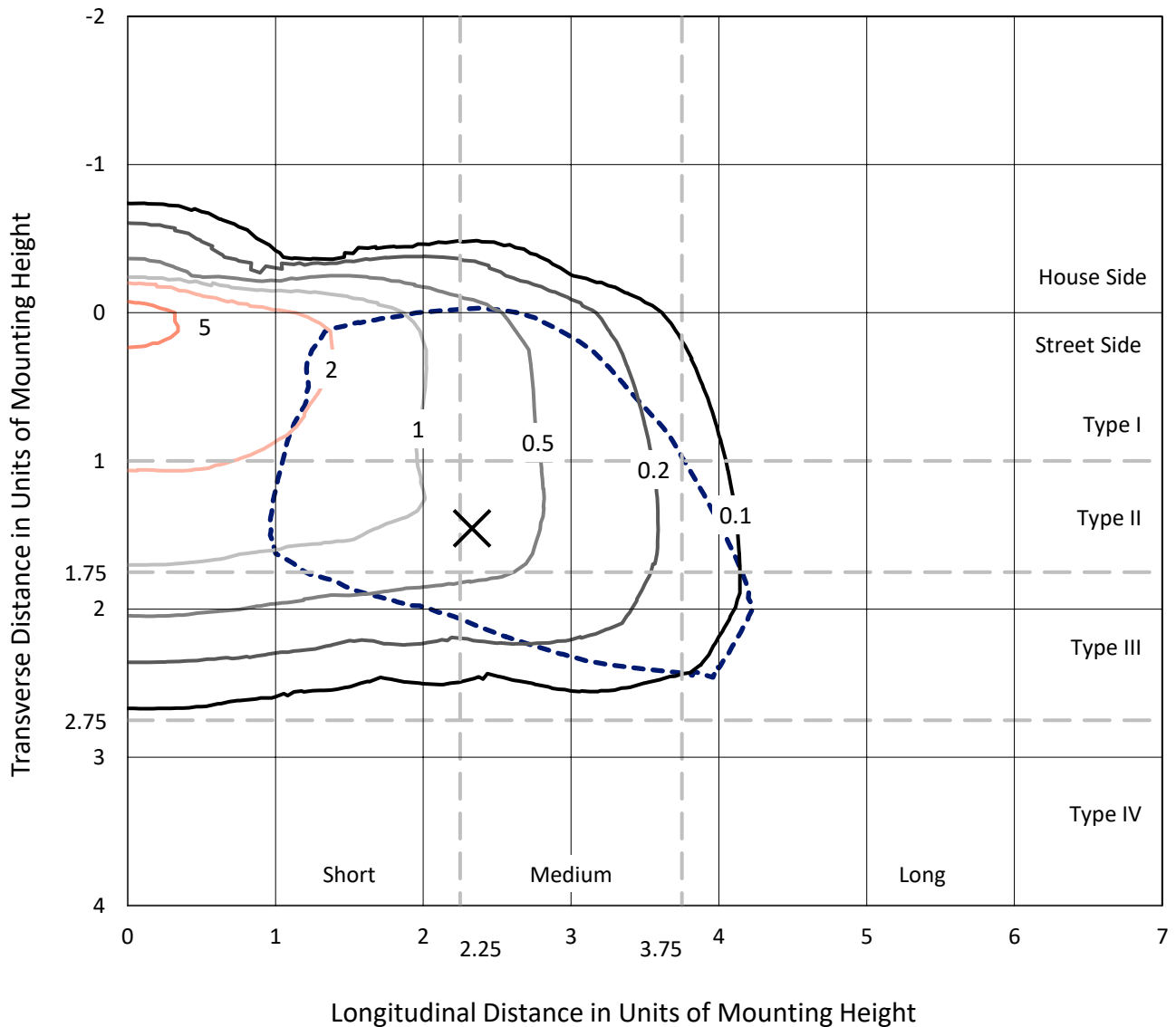
Lumens per Lamp: N/A
Luminaire Lumens: 4930 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

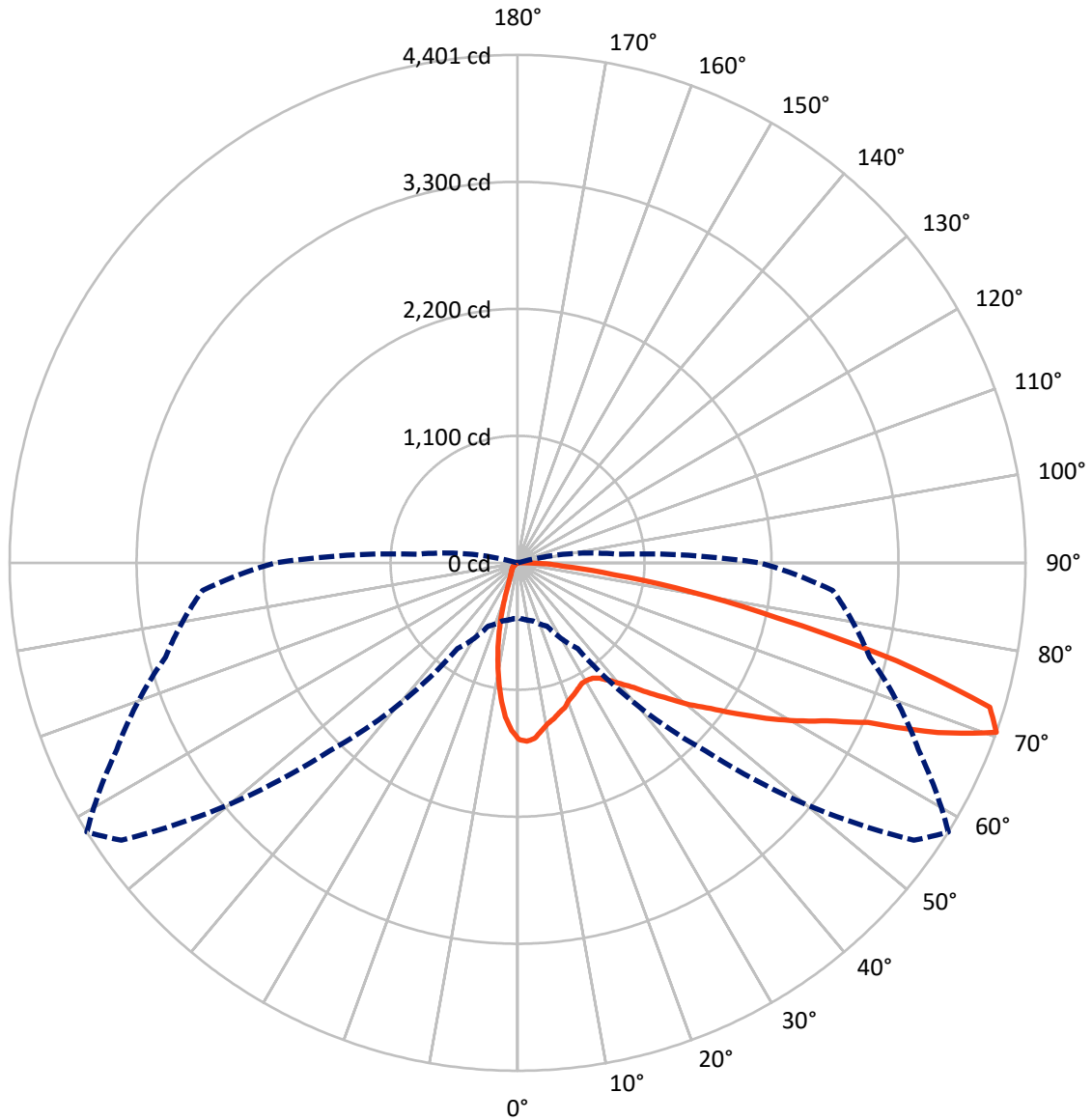
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 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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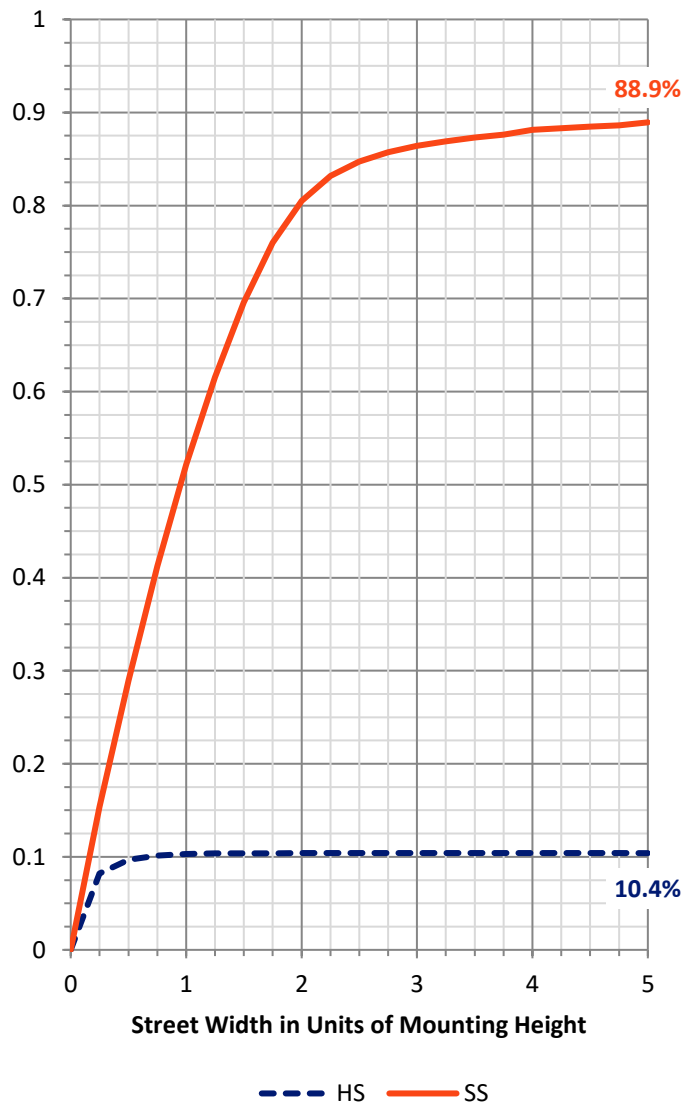
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.3	0.0	516.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4413.7	0.0	4413.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	4930.0	0.0	4930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	2.5
10°-20°	260.0	5.3
20°-30°	348.1	7.1
30°-40°	470.5	9.5
40°-50°	675.3	13.7
50°-60°	995.2	20.2
60°-70°	1213.9	24.6
70°-80°	741.3	15.0
80°-90°	100.7	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°	4930.0	100.0
0°-180°	4930.0	100.0

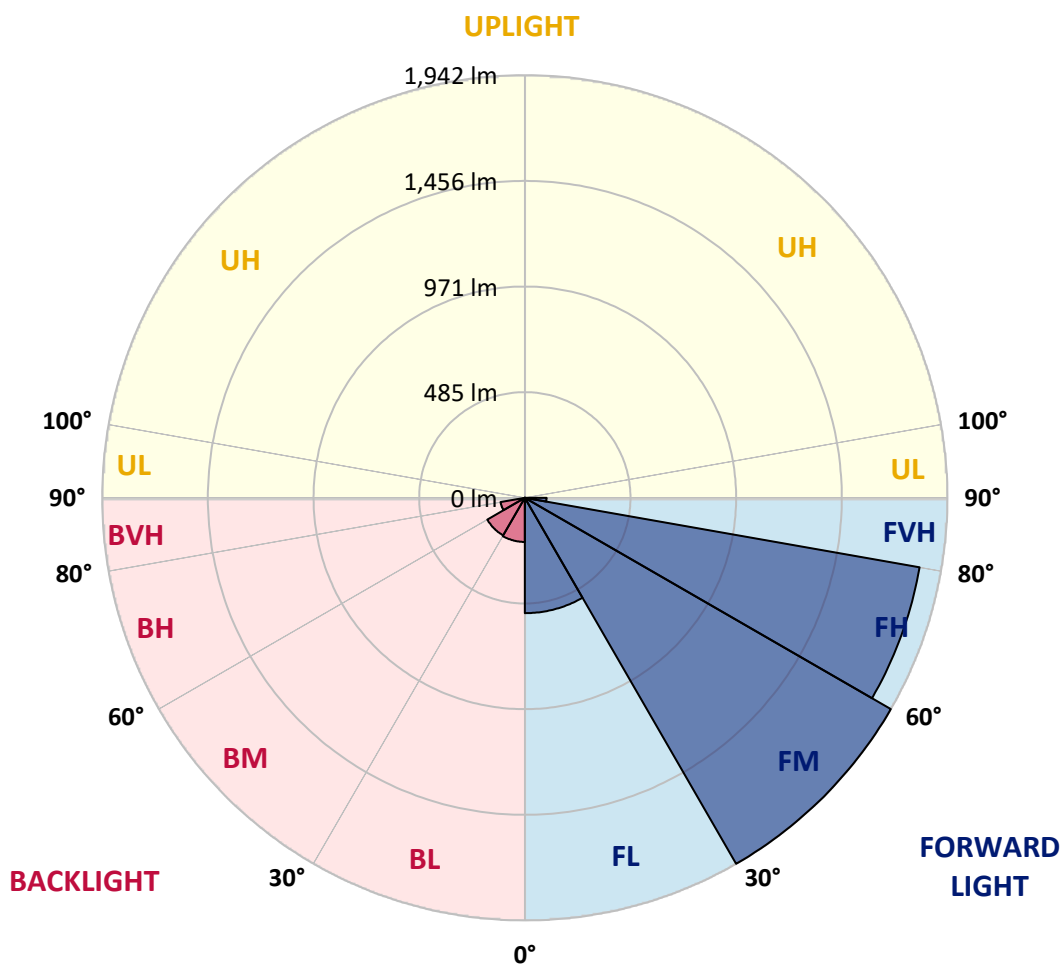


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.1	10.8			
FM (30°-60°)	1941.9	39.4			
FH (60°-80°)	1842.1	37.4			G2/5000
FVH (80°-90°)	99.7	2.0			G1/100
BL (0°-30°)	202.9	4.1	B1/500		
BM (30°-60°)	199.2	4.0	B0/220		
BH (60°-80°)	113.1	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°	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4
2.5°	1558.2	1563.9	1550.1	1566.2	1551.2	1558.2	1550.1	1547.8	1548.9	1550.1	1540.8
5°	1485.3	1499.2	1505.0	1495.7	1517.7	1514.2	1528.1	1529.3	1523.5	1517.7	1518.9
7.5°	1389.4	1403.3	1409.0	1414.8	1436.8	1465.7	1484.2	1472.6	1481.9	1502.7	1471.5
10°	1320.0	1316.6	1315.4	1327.0	1368.6	1392.9	1424.1	1420.6	1443.7	1463.4	1437.9
12.5°	1234.5	1227.6	1248.4	1257.6	1294.6	1337.4	1361.7	1387.1	1410.2	1431.0	1402.1
15°	1170.9	1176.7	1184.8	1204.4	1231.0	1287.7	1323.5	1347.8	1389.4	1399.8	1388.2
17.5°	1120.1	1124.7	1136.3	1146.7	1180.2	1234.5	1291.1	1320.0	1364.0	1391.7	1355.9
20°	1121.2	1107.4	1107.4	1117.8	1136.3	1201.0	1261.1	1270.3	1330.4	1377.8	1353.6
22.5°	1122.4	1117.8	1107.4	1106.2	1114.3	1160.5	1221.8	1242.6	1307.3	1362.8	1333.9
25°	1138.6	1121.2	1122.4	1106.2	1109.7	1132.8	1181.3	1212.5	1286.5	1370.9	1323.5
27.5°	1152.4	1160.5	1144.3	1137.4	1117.8	1116.6	1157.1	1183.6	1276.1	1389.4	1330.4
30°	1183.6	1189.4	1189.4	1184.8	1166.3	1139.7	1149.0	1182.5	1255.3	1385.9	1318.9
32.5°	1235.7	1225.3	1239.1	1232.2	1207.9	1166.3	1174.4	1191.7	1268.0	1429.8	1337.4
35°	1253.0	1261.1	1279.6	1264.6	1256.5	1232.2	1216.0	1228.7	1286.5	1473.8	1365.1
37.5°	1306.2	1294.6	1307.3	1340.8	1348.9	1305.0	1273.8	1292.3	1355.9	1525.8	1390.5
40°	1310.8	1320.0	1343.2	1409.0	1417.1	1398.6	1373.2	1377.8	1425.2	1592.8	1454.1
42.5°	1333.9	1344.3	1391.7	1447.2	1491.1	1494.6	1476.1	1476.1	1516.5	1700.3	1524.6
45°	1379.0	1361.7	1422.9	1516.5	1580.1	1592.8	1617.1	1611.3	1643.7	1813.6	1656.4
47.5°	1396.3	1402.1	1469.2	1582.4	1655.3	1714.2	1754.7	1755.8	1772.0	1958.1	1827.5
50°	1453.0	1451.8	1532.7	1637.9	1745.4	1852.9	1931.5	1931.5	1930.4	2099.1	1974.3
52.5°	1528.1	1525.8	1588.2	1713.0	1852.9	1988.1	2092.2	2095.6	2122.2	2272.5	2143.0
55°	1650.6	1640.2	1700.3	1792.8	1960.4	2124.5	2304.9	2306.0	2285.2	2396.2	2264.4
57.5°	1753.5	1752.3	1802.0	1891.1	2080.6	2300.2	2509.5	2540.7	2474.8	2523.3	2361.5
60°	1726.9	1741.9	1844.8	1976.6	2207.8	2519.9	2730.2	2778.8	2673.6	2610.0	2434.3
62.5°	1561.6	1596.3	1708.4	1918.8	2315.3	2838.9	3034.2	3012.3	2777.6	2684.0	2523.3
65°	1123.5	1158.2	1296.9	1612.5	2190.4	3064.3	3434.2	3334.8	2962.6	2793.8	2642.4
67.5°	661.2	675.0	761.7	1028.8	1637.9	2941.8	3919.7	3927.8	3326.7	2962.6	2848.1
70°	477.4	487.8	521.3	606.8	907.4	2306.0	4190.1	4400.5	3831.8	3156.8	2739.5
72.5°	366.4	366.4	423.1	505.1	578.0	1381.3	3856.1	4278.0	3941.6	2970.7	2207.8
75°	263.5	270.5	331.7	434.6	532.9	693.5	2841.2	3394.9	3340.6	2407.7	1542.0
77.5°	151.4	154.9	233.5	364.1	500.5	476.2	1755.8	2301.4	2366.1	1507.3	668.1
80°	77.4	79.8	130.6	287.8	453.1	415.0	1047.2	1515.4	1285.4	438.1	154.9
82.5°	38.1	38.1	59.0	183.8	384.9	367.6	616.1	836.9	455.4	100.6	64.7
85°	12.7	13.9	26.6	104.0	278.6	221.9	376.8	397.6	152.6	38.1	35.8
87.5°	3.5	4.6	6.9	38.1	121.4	145.6	224.2	254.3	62.4	15.0	17.3
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°	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4	1530.4
2.5°	1506.1	1498.0	1488.8	1465.7	1447.2	1422.9	1406.7	1394.0	1369.7	1374.4	1364.0
5°	1491.1	1476.1	1422.9	1372.1	1325.8	1255.3	1206.8	1175.6	1150.1	1124.7	1143.2
7.5°	1464.5	1428.7	1345.5	1250.7	1152.4	1060.0	967.5	912.0	871.5	834.6	833.4
10°	1419.4	1361.7	1231.0	1107.4	955.9	834.6	716.7	624.2	564.1	520.2	519.0
12.5°	1368.6	1308.5	1144.3	943.2	768.7	597.6	456.6	358.3	301.7	267.0	262.4
15°	1336.2	1248.4	1035.7	797.6	581.4	389.5	253.1	191.9	169.9	161.8	161.8
17.5°	1294.6	1194.0	928.2	646.1	403.4	225.4	164.1	148.0	146.8	144.5	142.2
20°	1277.3	1152.4	832.2	515.5	255.5	159.5	141.0	137.6	137.6	135.2	132.9
22.5°	1231.0	1092.3	730.5	378.0	169.9	139.9	132.9	128.3	126.0	123.7	126.0
25°	1210.2	1049.6	634.6	261.2	138.7	124.8	121.4	116.7	113.3	112.1	112.1
27.5°	1196.4	1006.8	541.0	181.5	122.5	114.4	107.5	104.0	99.4	94.8	94.8
30°	1186.0	973.3	450.8	134.1	109.8	101.7	95.9	87.8	82.1	77.4	77.4
32.5°	1172.1	934.0	360.6	114.4	99.4	91.3	80.9	74.0	65.9	62.4	62.4
35°	1176.7	907.4	283.2	101.7	89.0	78.6	69.4	60.1	52.0	48.5	47.4
37.5°	1186.0	887.7	215.0	91.3	79.8	68.2	57.8	47.4	42.8	38.1	38.1
40°	1225.3	882.0	158.4	84.4	72.8	60.1	48.5	39.3	34.7	31.2	30.1
42.5°	1291.1	890.0	122.5	76.3	65.9	50.9	40.5	32.4	27.7	24.3	23.1
45°	1375.5	921.3	100.6	71.7	57.8	42.8	32.4	26.6	20.8	18.5	18.5
47.5°	1498.0	969.8	87.8	65.9	50.9	35.8	27.7	20.8	16.2	13.9	13.9
50°	1636.8	1025.3	77.4	59.0	43.9	30.1	22.0	16.2	11.6	10.4	10.4
52.5°	1775.5	1095.8	71.7	54.3	38.1	24.3	17.3	11.6	8.1	6.9	6.9
55°	1921.1	1158.2	64.7	50.9	31.2	19.7	12.7	6.9	4.6	3.5	3.5
57.5°	2022.8	1182.5	56.6	43.9	24.3	15.0	9.2	4.6	2.3	1.2	1.2
60°	2095.6	1186.0	48.5	35.8	18.5	11.6	5.8	2.3	1.2	0.0	0.0
62.5°	2156.9	1192.9	41.6	27.7	13.9	8.1	3.5	1.2	0.0	0.0	0.0
65°	2278.3	1187.1	33.5	22.0	9.2	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	2374.2	1129.3	26.6	15.0	5.8	2.3	1.2	0.0	0.0	0.0	0.0
70°	2100.3	861.1	20.8	10.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1649.5	574.5	13.9	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
75°	1081.9	285.5	10.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	420.7	75.1	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.7	25.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.9	9.2	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.6	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	2.3	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)