

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: P676965

Luminaire Tested: **CCW-SA-1E-727-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676965
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

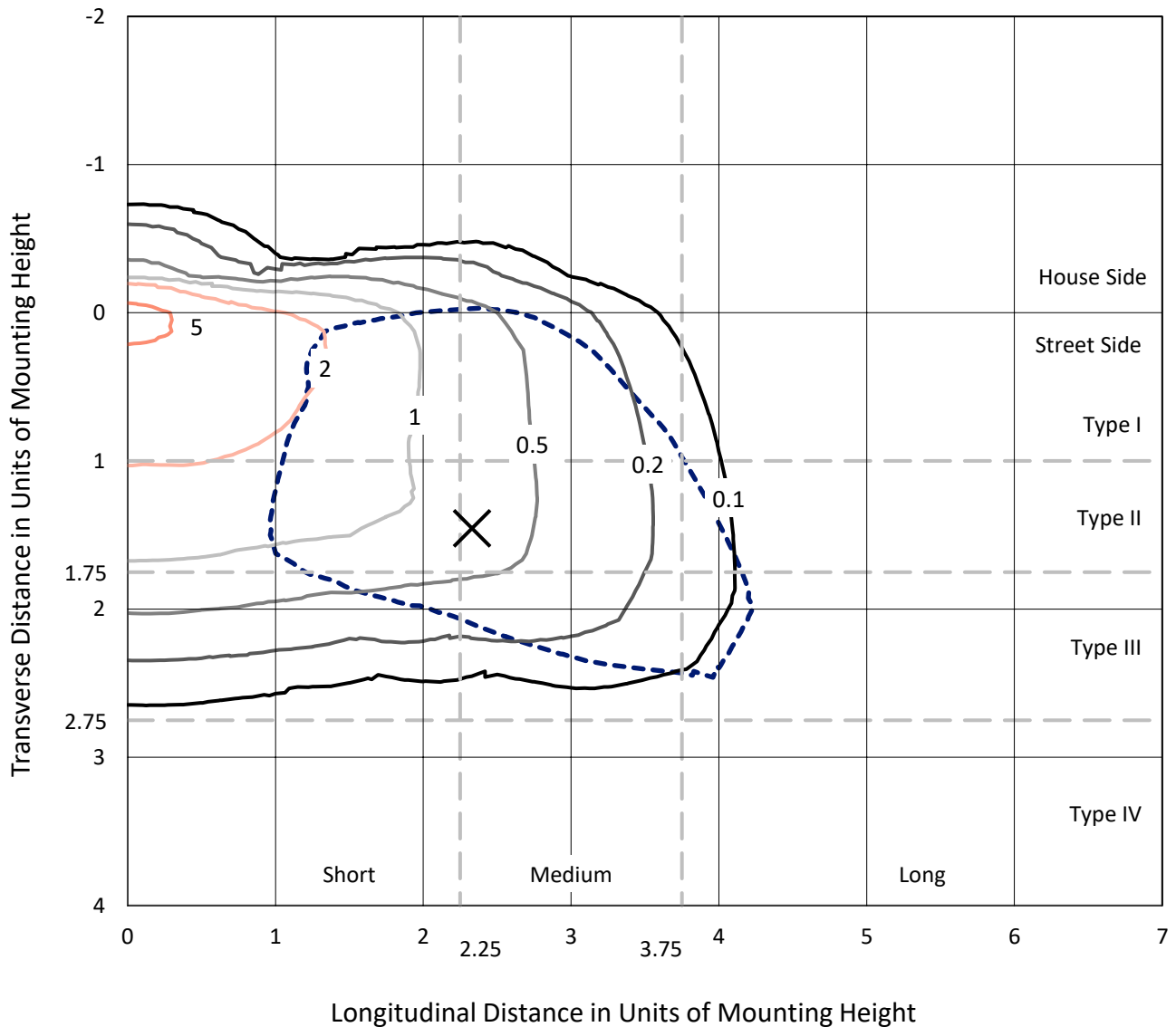
Lumens per Lamp: N/A
Luminaire Lumens: 4724.9 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

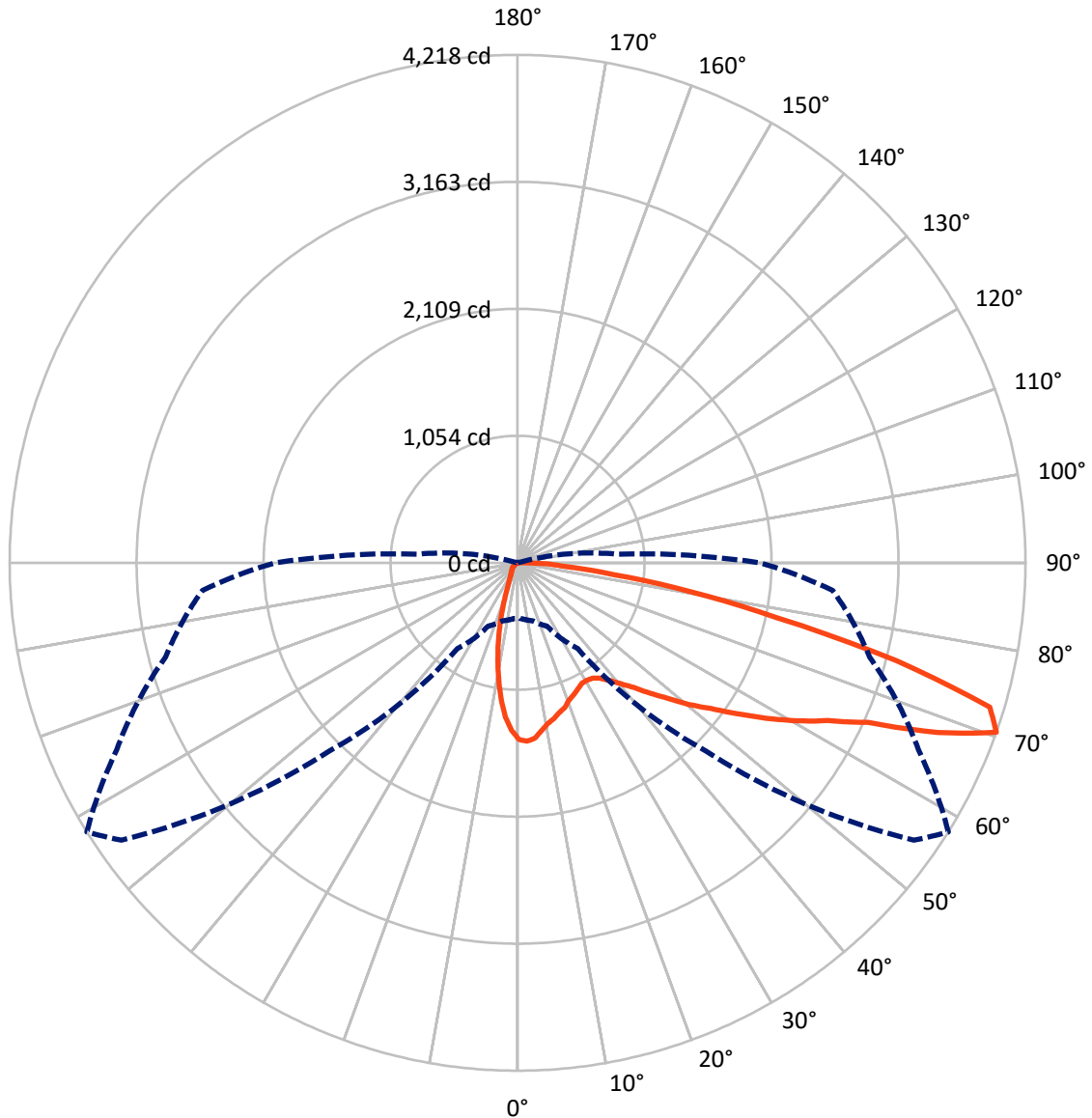
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 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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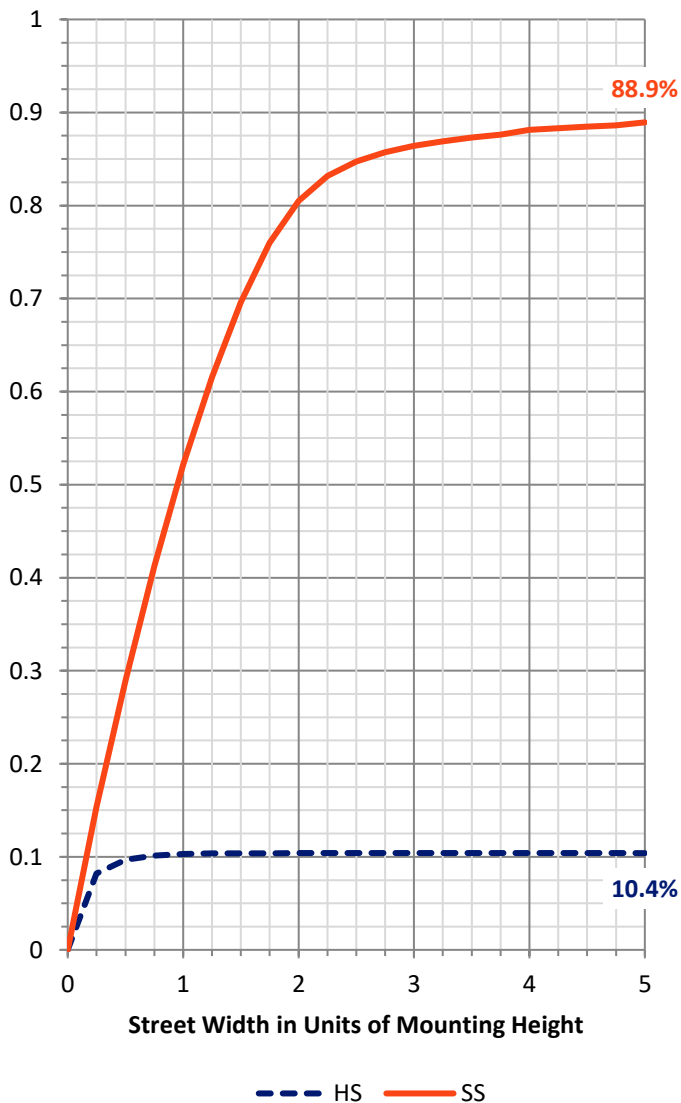
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.8	0.0	494.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4230.1	0.0	4230.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	4724.9	0.0	4724.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	2.5
10°-20°	249.2	5.3
20°-30°	333.6	7.1
30°-40°	451.0	9.5
40°-50°	647.2	13.7
50°-60°	953.8	20.2
60°-70°	1163.4	24.6
70°-80°	710.4	15.0
80°-90°	96.5	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°	4724.9	100.0
0°-180°	4724.9	100.0

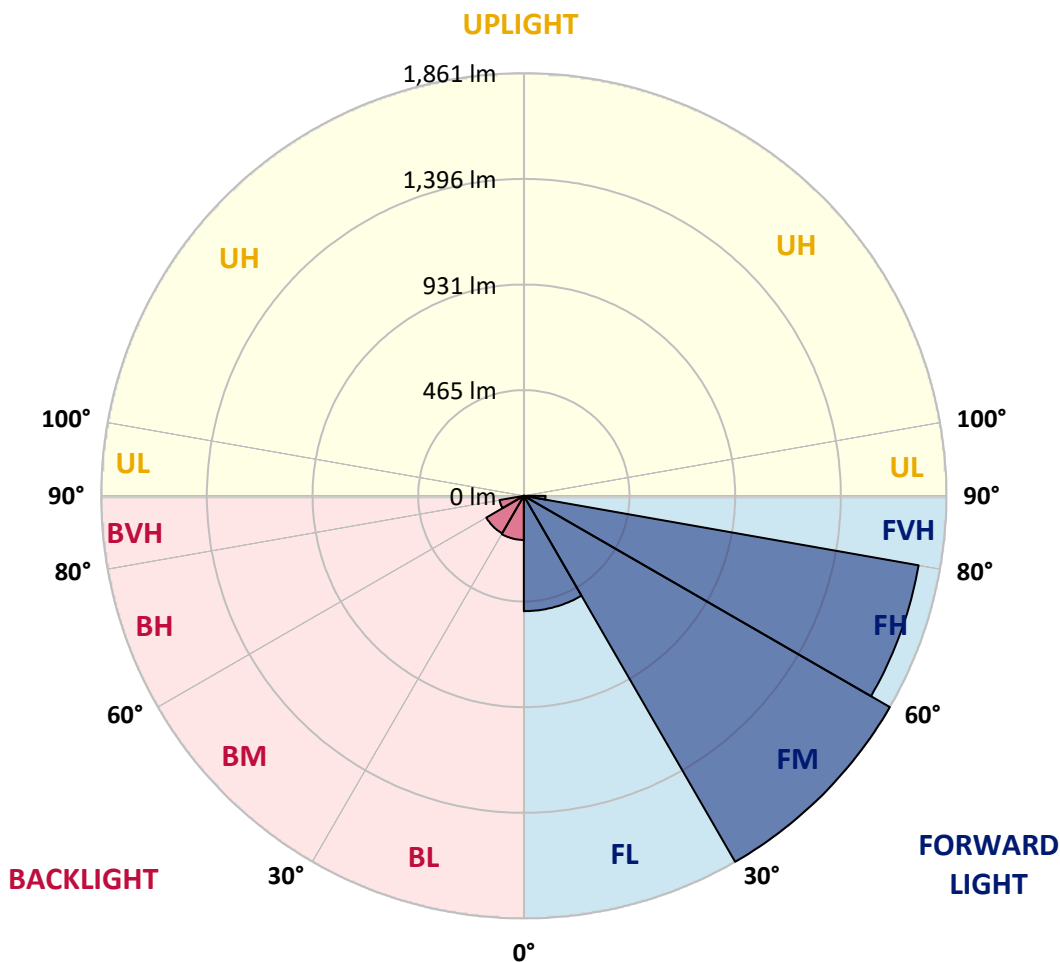


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	508.0	10.8			
FM (30°-60°)	1861.1	39.4			
FH (60°-80°)	1765.4	37.4			G1/1800
FVH (80°-90°)	95.6	2.0			G1/100
BL (0°-30°)	194.4	4.1	B1/500		
BM (30°-60°)	191.0	4.0	B0/220		
BH (60°-80°)	108.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7
2.5°	1493.3	1498.9	1485.6	1501.1	1486.7	1493.3	1485.6	1483.4	1484.5	1485.6	1476.7
5°	1423.5	1436.8	1442.4	1433.5	1454.6	1451.2	1464.5	1465.6	1460.1	1454.6	1455.7
7.5°	1331.6	1344.9	1350.4	1356.0	1377.0	1404.7	1422.4	1411.4	1420.2	1440.2	1410.2
10°	1265.1	1261.8	1260.7	1271.8	1311.7	1334.9	1364.8	1361.5	1383.7	1402.5	1378.1
12.5°	1183.1	1176.5	1196.4	1205.3	1240.8	1281.7	1305.0	1329.4	1351.5	1371.5	1343.8
15°	1122.2	1127.8	1135.5	1154.3	1179.8	1234.1	1268.4	1291.7	1331.6	1341.6	1330.5
17.5°	1073.5	1077.9	1089.0	1099.0	1131.1	1183.1	1237.4	1265.1	1307.2	1333.8	1299.5
20°	1074.6	1061.3	1061.3	1071.3	1089.0	1151.0	1208.6	1217.5	1275.1	1320.5	1297.3
22.5°	1075.7	1071.3	1061.3	1060.2	1067.9	1112.2	1171.0	1190.9	1252.9	1306.1	1278.4
25°	1091.2	1074.6	1075.7	1060.2	1063.5	1085.7	1132.2	1162.1	1233.0	1313.9	1268.4
27.5°	1104.5	1112.2	1096.7	1090.1	1071.3	1070.1	1108.9	1134.4	1223.0	1331.6	1275.1
30°	1134.4	1139.9	1139.9	1135.5	1117.8	1092.3	1101.2	1133.3	1203.1	1328.3	1264.0
32.5°	1184.3	1174.3	1187.6	1180.9	1157.7	1117.8	1125.5	1142.2	1215.3	1370.4	1281.7
35°	1200.9	1208.6	1226.4	1212.0	1204.2	1180.9	1165.4	1177.6	1233.0	1412.5	1308.3
37.5°	1251.8	1240.8	1252.9	1285.1	1292.8	1250.7	1220.8	1238.5	1299.5	1462.3	1332.7
40°	1256.3	1265.1	1287.3	1350.4	1358.2	1340.5	1316.1	1320.5	1365.9	1526.6	1393.6
42.5°	1278.4	1288.4	1333.8	1387.0	1429.1	1432.4	1414.7	1414.7	1453.5	1629.6	1461.2
45°	1321.6	1305.0	1363.7	1453.5	1514.4	1526.6	1549.8	1544.3	1575.3	1738.2	1587.5
47.5°	1338.2	1343.8	1408.0	1516.6	1586.4	1642.9	1681.7	1682.8	1698.3	1876.6	1751.5
50°	1392.5	1391.4	1469.0	1569.8	1672.8	1775.8	1851.2	1851.2	1850.1	2011.8	1892.1
52.5°	1464.5	1462.3	1522.1	1641.8	1775.8	1905.4	2005.1	2008.5	2033.9	2178.0	2053.9
55°	1582.0	1572.0	1629.6	1718.2	1878.9	2036.2	2209.0	2210.1	2190.2	2296.5	2170.2
57.5°	1680.6	1679.4	1727.1	1812.4	1994.1	2204.6	2405.1	2435.0	2371.8	2418.4	2263.3
60°	1655.1	1669.5	1768.1	1894.4	2115.9	2415.0	2616.7	2663.2	2562.4	2501.4	2333.1
62.5°	1496.7	1529.9	1637.4	1839.0	2219.0	2720.8	2908.0	2887.0	2662.1	2572.3	2418.4
65°	1076.8	1110.0	1243.0	1545.4	2099.3	2936.8	3291.3	3196.0	2839.3	2677.6	2532.5
67.5°	633.7	647.0	730.1	986.0	1569.8	2819.4	3756.6	3764.4	3188.3	2839.3	2729.7
70°	457.5	467.5	499.6	581.6	869.6	2210.1	4015.8	4217.5	3672.4	3025.4	2625.5
72.5°	351.2	351.2	405.5	484.1	553.9	1323.8	3695.7	4100.0	3777.7	2847.1	2115.9
75°	252.6	259.2	317.9	416.5	510.7	664.7	2723.0	3253.7	3201.6	2307.6	1477.8
77.5°	145.1	148.4	223.8	349.0	479.7	456.4	1682.8	2205.7	2267.7	1444.6	640.3
80°	74.2	76.4	125.2	275.8	434.3	397.7	1003.7	1452.3	1231.9	419.9	148.4
82.5°	36.6	36.6	56.5	176.1	368.9	352.3	590.5	802.1	436.5	96.4	62.0
85°	12.2	13.3	25.5	99.7	267.0	212.7	361.1	381.1	146.2	36.6	34.3
87.5°	3.3	4.4	6.6	36.6	116.3	139.6	214.9	243.7	59.8	14.4	16.6
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°	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7
2.5°	1443.5	1435.7	1426.9	1404.7	1387.0	1363.7	1348.2	1336.0	1312.8	1317.2	1307.2
5°	1429.1	1414.7	1363.7	1315.0	1270.7	1203.1	1156.6	1126.6	1102.3	1077.9	1095.6
7.5°	1403.6	1369.3	1289.5	1198.7	1104.5	1015.9	927.2	874.1	835.3	799.8	798.7
10°	1360.4	1305.0	1179.8	1061.3	916.2	799.8	686.8	598.2	540.6	498.5	497.4
12.5°	1311.7	1254.0	1096.7	904.0	736.7	572.7	437.6	343.4	289.1	255.9	251.5
15°	1280.6	1196.4	992.6	764.4	557.2	373.3	242.6	183.9	162.8	155.1	155.1
17.5°	1240.8	1144.4	889.6	619.3	386.6	216.0	157.3	141.8	140.7	138.5	136.3
20°	1224.1	1104.5	797.6	494.1	244.8	152.9	135.2	131.8	131.8	129.6	127.4
22.5°	1179.8	1046.9	700.1	362.3	162.8	134.0	127.4	123.0	120.8	118.5	120.8
25°	1159.9	1005.9	608.2	250.4	132.9	119.6	116.3	111.9	108.6	107.5	107.5
27.5°	1146.6	964.9	518.5	173.9	117.4	109.7	103.0	99.7	95.3	90.8	90.8
30°	1136.6	932.8	432.0	128.5	105.2	97.5	91.9	84.2	78.7	74.2	74.2
32.5°	1123.3	895.1	345.6	109.7	95.3	87.5	77.5	70.9	63.1	59.8	59.8
35°	1127.8	869.6	271.4	97.5	85.3	75.3	66.5	57.6	49.9	46.5	45.4
37.5°	1136.6	850.8	206.1	87.5	76.4	65.4	55.4	45.4	41.0	36.6	36.6
40°	1174.3	845.3	151.8	80.9	69.8	57.6	46.5	37.7	33.2	29.9	28.8
42.5°	1237.4	853.0	117.4	73.1	63.1	48.7	38.8	31.0	26.6	23.3	22.2
45°	1318.3	882.9	96.4	68.7	55.4	41.0	31.0	25.5	19.9	17.7	17.7
47.5°	1435.7	929.5	84.2	63.1	48.7	34.3	26.6	19.9	15.5	13.3	13.3
50°	1568.7	982.6	74.2	56.5	42.1	28.8	21.0	15.5	11.1	10.0	10.0
52.5°	1701.6	1050.2	68.7	52.1	36.6	23.3	16.6	11.1	7.8	6.6	6.6
55°	1841.2	1110.0	62.0	48.7	29.9	18.8	12.2	6.6	4.4	3.3	3.3
57.5°	1938.7	1133.3	54.3	42.1	23.3	14.4	8.9	4.4	2.2	1.1	1.1
60°	2008.5	1136.6	46.5	34.3	17.7	11.1	5.5	2.2	1.1	0.0	0.0
62.5°	2067.2	1143.3	39.9	26.6	13.3	7.8	3.3	1.1	0.0	0.0	0.0
65°	2183.5	1137.7	32.1	21.0	8.9	4.4	2.2	0.0	0.0	0.0	0.0
67.5°	2275.5	1082.3	25.5	14.4	5.5	2.2	1.1	0.0	0.0	0.0	0.0
70°	2012.9	825.3	19.9	10.0	3.3	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1580.9	550.6	13.3	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	1036.9	273.6	10.0	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	403.2	72.0	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	97.5	24.4	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.1	8.9	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.5	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	2.2	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)