

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: P676833

Luminaire Tested: **CCW-SA-1F-730-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676833
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-730-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

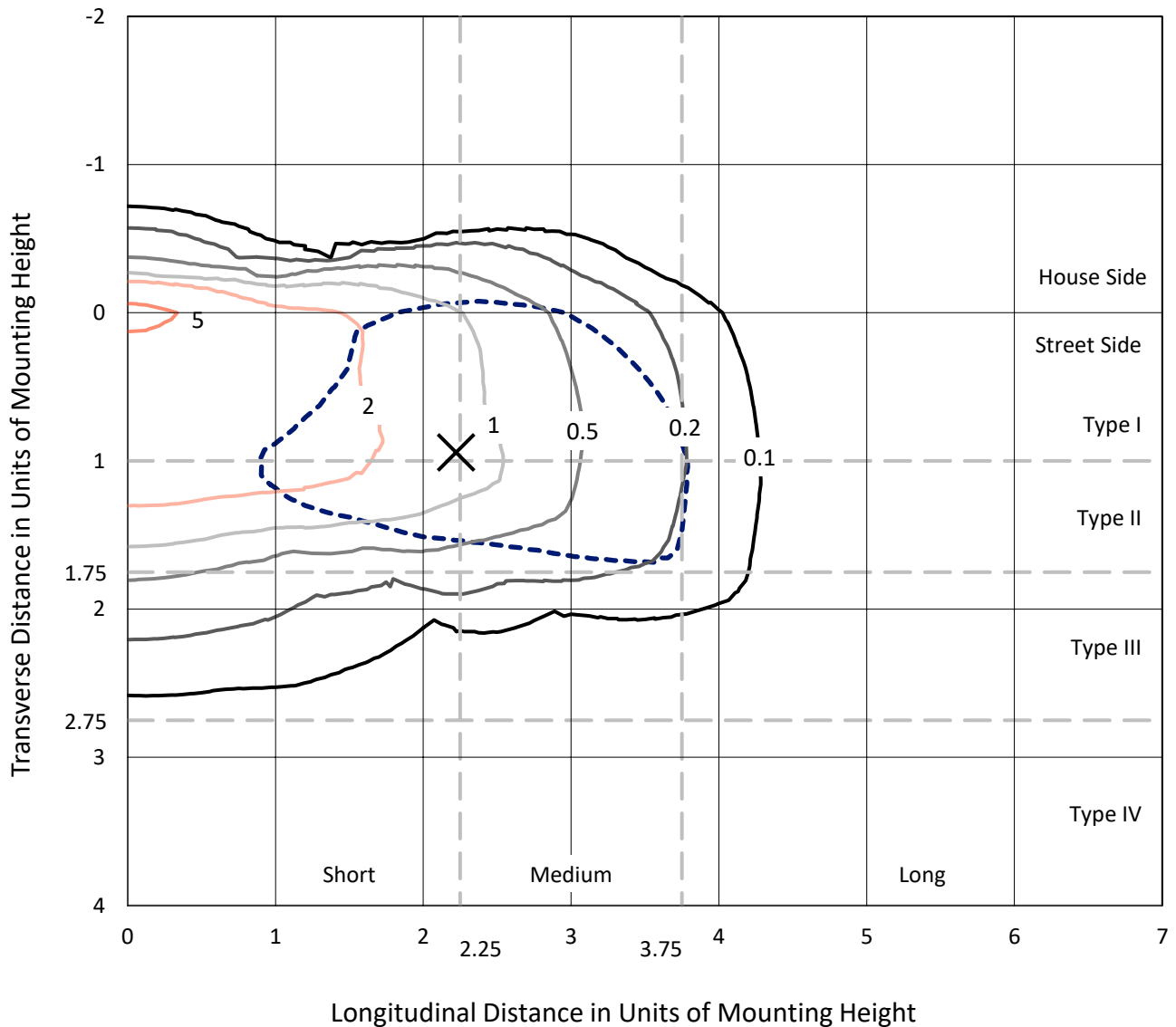
Lumens per Lamp: N/A
Luminaire Lumens: 5490.3 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

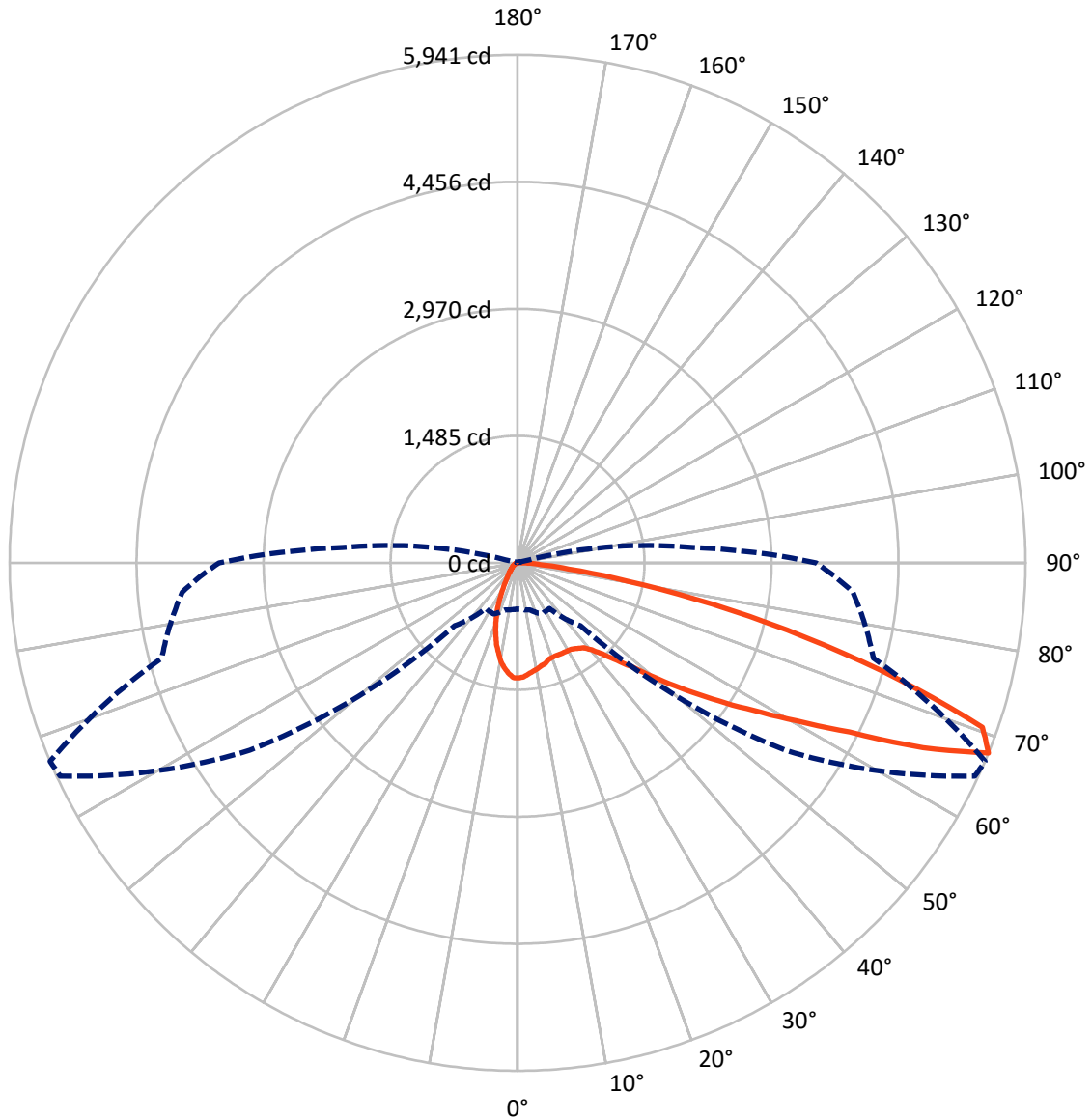
× Max cd
 - - - 1/2 Max cd



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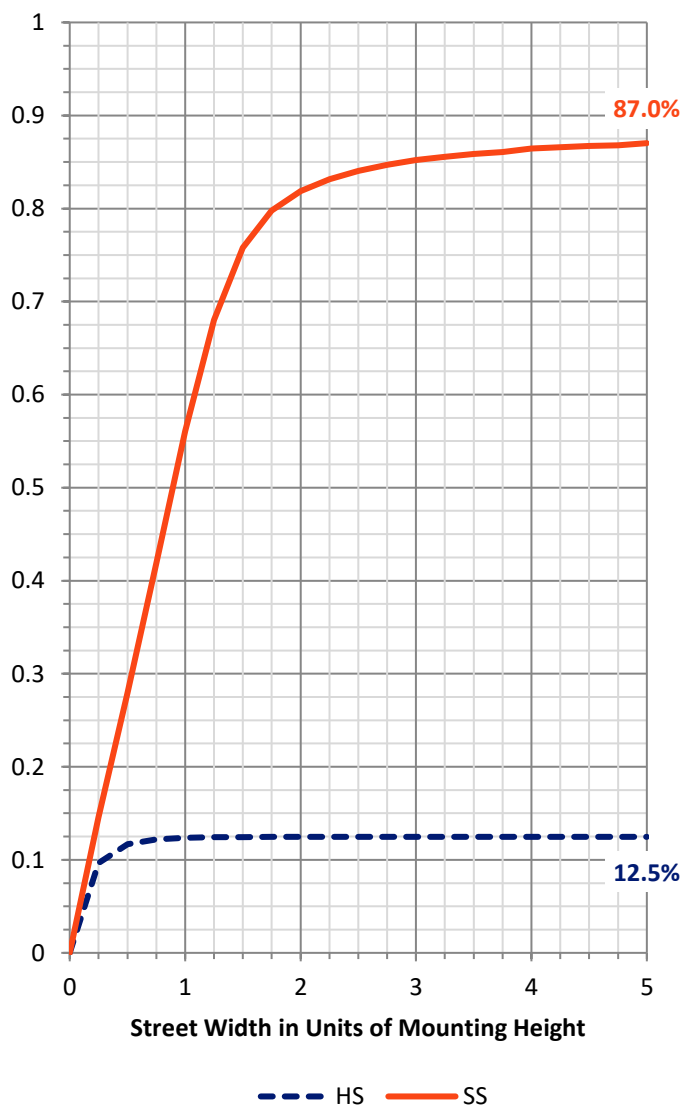
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.0	0.0	691.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4799.3	0.0	4799.3
	% Fixture	87.4	0.0	87.4
Total	Lumens	5490.3	0.0	5490.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	2.1
10°-20°	252.1	4.6
20°-30°	358.4	6.5
30°-40°	521.9	9.5
40°-50°	807.7	14.7
50°-60°	1239.6	22.6
60°-70°	1343.8	24.5
70°-80°	758.1	13.8
80°-90°	95.3	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°	5490.3	100.0
0°-180°	5490.3	100.0

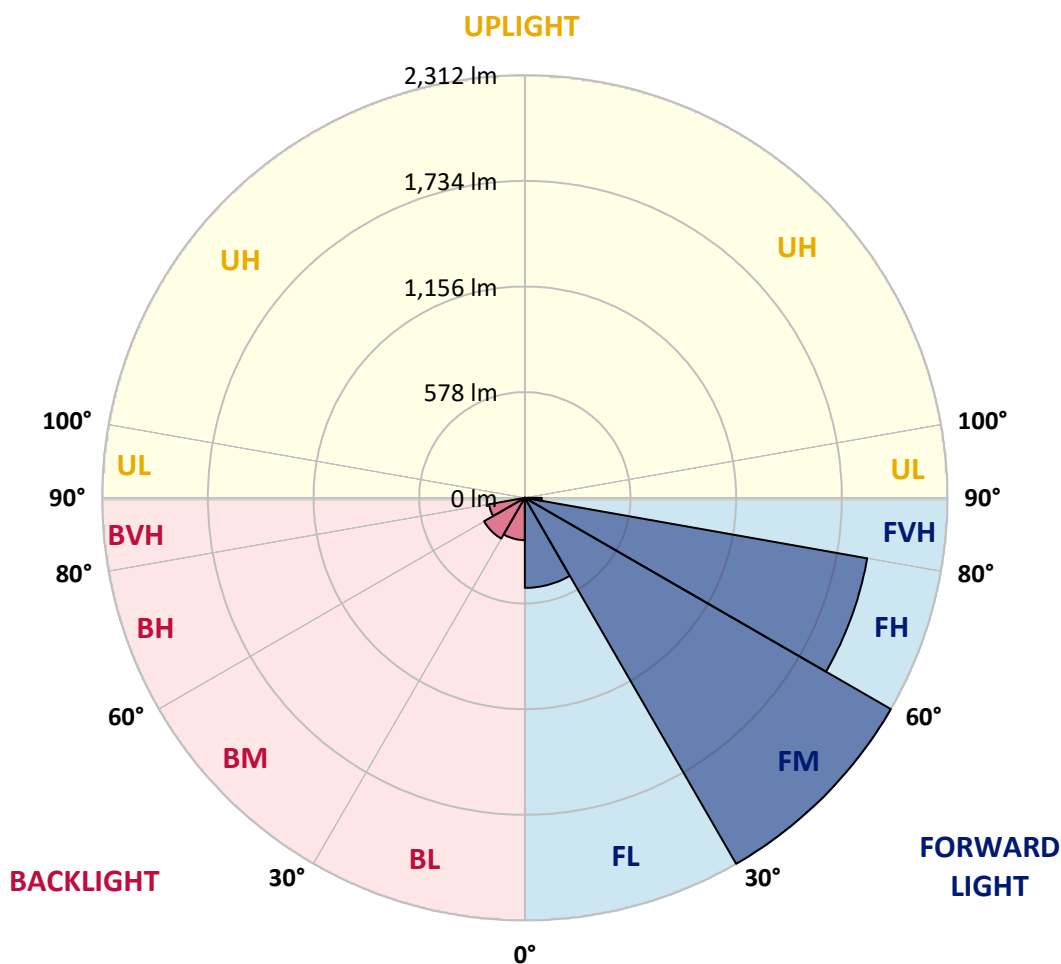


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.6	9.0			
FM (30°-60°)	2311.9	42.1			
FH (60°-80°)	1902.3	34.6			G2/5000
FVH (80°-90°)	92.5	1.7			G1/100
BL (0°-30°)	231.3	4.2	B1/500		
BM (30°-60°)	257.4	4.7	B1/1000		
BH (60°-80°)	199.6	3.6	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1288.5	1295.1	1304.3	1317.6	1326.8	1321.5	1325.5	1348.0	1336.1	1346.7	1341.4
5°	1217.0	1223.6	1236.9	1235.5	1246.1	1266.0	1292.4	1321.5	1308.3	1340.1	1352.0
7.5°	1142.9	1140.3	1140.3	1168.1	1190.6	1218.3	1232.9	1280.5	1281.8	1309.6	1338.7
10°	1075.5	1083.4	1096.6	1107.2	1128.4	1168.1	1210.4	1247.5	1262.0	1317.6	1325.5
12.5°	1034.5	1038.4	1054.3	1063.6	1091.4	1129.7	1174.7	1222.3	1234.2	1291.1	1329.5
15°	1017.3	1026.5	1031.8	1049.0	1063.6	1099.3	1132.4	1186.6	1221.0	1266.0	1313.6
17.5°	1030.5	1026.5	1029.2	1034.5	1051.7	1083.4	1119.1	1173.4	1185.3	1260.7	1332.1
20°	1047.7	1049.0	1041.1	1038.4	1034.5	1064.9	1094.0	1164.1	1177.3	1260.7	1344.0
22.5°	1094.0	1079.4	1094.0	1072.8	1051.7	1064.9	1092.7	1165.4	1174.7	1259.4	1355.9
25°	1150.9	1153.5	1157.5	1112.5	1082.1	1072.8	1101.9	1169.4	1177.3	1269.9	1361.2
27.5°	1231.6	1243.5	1223.6	1201.2	1140.3	1094.0	1100.6	1166.8	1181.3	1264.6	1374.4
30°	1340.1	1330.8	1333.4	1281.8	1222.3	1149.6	1131.0	1173.4	1184.0	1271.3	1399.6
32.5°	1434.0	1423.4	1441.9	1423.4	1329.5	1228.9	1166.8	1186.6	1198.5	1287.1	1420.7
35°	1492.2	1505.4	1534.5	1554.4	1475.0	1332.1	1226.3	1222.3	1227.6	1295.1	1436.6
37.5°	1582.1	1605.9	1629.8	1680.0	1611.2	1459.1	1320.2	1268.6	1259.4	1333.4	1444.6
40°	1680.0	1673.4	1743.5	1803.1	1800.4	1637.7	1451.2	1350.6	1337.4	1394.3	1497.5
42.5°	1762.0	1755.4	1833.5	1931.4	1942.0	1809.7	1600.7	1467.0	1455.1	1488.2	1562.3
45°	1869.2	1874.5	1967.1	2083.5	2121.9	2037.2	1803.1	1633.7	1627.1	1616.5	1685.3
47.5°	1964.4	1993.5	2072.9	2210.5	2349.4	2272.7	2041.2	1877.1	1830.8	1807.0	1875.8
50°	2030.6	2057.0	2153.6	2300.4	2554.4	2603.4	2308.4	2136.4	2137.7	2079.5	2116.6
52.5°	2030.6	2029.3	2107.3	2300.4	2697.3	2948.6	2665.6	2463.2	2473.7	2412.9	2415.5
55°	1834.8	1830.8	1926.1	2131.1	2681.4	3280.7	3206.6	2877.2	2850.8	2733.0	2744.9
57.5°	1477.6	1486.9	1559.6	1805.7	2475.1	3435.5	3850.8	3342.9	3252.9	3009.5	3009.5
60°	1078.1	1070.2	1124.4	1296.4	1983.0	3377.2	4380.0	3891.8	3750.3	3238.3	3204.0
62.5°	820.2	818.8	833.4	891.6	1258.0	2944.7	4607.5	4590.3	4360.1	3463.2	3414.3
65°	662.7	665.4	685.2	726.2	768.6	2008.1	4487.1	5423.7	5213.4	3797.9	3637.8
67.5°	541.0	547.7	571.5	660.1	650.8	1039.8	3821.7	5901.3	5940.9	4308.5	3938.1
70°	416.7	427.3	455.1	580.7	627.0	691.9	2649.7	5663.1	5769.0	4626.0	3756.9
72.5°	283.1	281.8	341.3	470.9	633.6	633.6	1475.0	4561.2	4661.7	4264.9	3263.5
75°	153.5	162.7	226.2	355.8	580.7	612.5	840.0	3337.6	3479.1	3316.4	2524.0
77.5°	83.3	84.7	125.7	232.8	482.8	584.7	560.9	2270.0	2325.6	2000.2	1382.4
80°	43.7	45.0	66.1	152.1	333.4	542.4	467.0	1353.3	1300.4	767.3	456.4
82.5°	19.8	21.2	33.1	95.2	213.0	427.3	403.5	653.5	603.2	214.3	138.9
85°	7.9	7.9	14.6	56.9	124.3	210.3	345.3	328.1	273.8	64.8	68.8
87.5°	2.6	2.6	4.0	22.5	50.3	125.7	183.9	173.3	119.1	23.8	37.0
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°	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1336.1	1350.6	1346.7	1344.0	1318.9	1316.2	1313.6	1289.8	1297.7	1277.9	1291.1
5°	1344.0	1352.0	1330.8	1291.1	1255.4	1215.7	1185.3	1164.1	1125.7	1111.2	1108.6
7.5°	1336.1	1336.1	1292.4	1228.9	1158.8	1094.0	1012.0	953.8	910.1	877.1	889.0
10°	1325.5	1309.6	1264.6	1152.2	1025.2	927.3	809.6	723.6	658.8	637.6	624.4
12.5°	1325.5	1297.7	1197.2	1043.7	879.7	731.5	591.3	478.9	416.7	379.7	374.4
15°	1313.6	1272.6	1148.2	941.9	738.2	537.1	377.0	280.4	227.5	213.0	207.7
17.5°	1316.2	1267.3	1075.5	821.5	572.8	357.2	230.2	177.3	164.0	157.4	158.7
20°	1321.5	1267.3	1010.7	703.8	412.7	222.2	158.7	149.5	142.9	140.2	141.5
22.5°	1338.7	1242.2	944.5	583.4	279.1	160.1	140.2	131.0	125.7	121.7	120.4
25°	1341.4	1238.2	881.0	464.3	191.8	134.9	123.0	112.4	105.8	100.5	99.2
27.5°	1337.4	1221.0	792.4	345.3	144.2	120.4	104.5	93.9	84.7	80.7	79.4
30°	1352.0	1189.2	717.0	248.7	121.7	104.5	88.6	76.7	68.8	63.5	63.5
32.5°	1353.3	1161.5	633.6	177.3	111.1	92.6	75.4	62.2	54.2	51.6	51.6
35°	1354.6	1136.3	541.0	134.9	99.2	79.4	62.2	51.6	46.3	42.3	42.3
37.5°	1358.6	1117.8	456.4	113.8	88.6	67.5	51.6	42.3	37.0	35.7	35.7
40°	1366.5	1092.7	367.8	100.5	76.7	56.9	43.7	35.7	30.4	29.1	27.8
42.5°	1387.7	1086.1	293.7	90.0	68.8	47.6	35.7	29.1	25.1	22.5	21.2
45°	1475.0	1103.3	227.5	83.3	58.2	39.7	30.4	23.8	18.5	17.2	15.9
47.5°	1617.9	1160.1	179.9	74.1	48.9	33.1	25.1	18.5	14.6	13.2	11.9
50°	1834.8	1289.8	146.8	66.1	41.0	27.8	19.8	14.6	10.6	9.3	9.3
52.5°	2119.2	1464.4	127.0	58.2	33.1	23.8	15.9	10.6	7.9	6.6	6.6
55°	2410.2	1670.8	119.1	50.3	27.8	19.8	11.9	7.9	5.3	4.0	4.0
57.5°	2677.5	1804.4	115.1	41.0	23.8	14.6	9.3	5.3	2.6	1.3	1.3
60°	2844.1	1902.3	103.2	33.1	18.5	11.9	6.6	2.6	1.3	0.0	0.0
62.5°	3063.7	2001.5	84.7	25.1	13.2	7.9	4.0	1.3	0.0	0.0	0.0
65°	3353.4	2112.6	66.1	19.8	10.6	5.3	2.6	1.3	0.0	0.0	0.0
67.5°	3492.3	2054.4	45.0	14.6	6.6	2.6	1.3	0.0	0.0	0.0	0.0
70°	3214.5	1730.3	31.7	10.6	4.0	1.3	1.3	0.0	0.0	0.0	0.0
72.5°	2702.6	1355.9	23.8	6.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0
75°	1992.2	847.9	18.5	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1057.0	316.2	13.2	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	312.2	92.6	9.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	103.2	27.8	5.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.9	10.6	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.4	4.0	2.6	2.6	1.3	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)