

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: P677031

Luminaire Tested: **CCW-SA-1E-827-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677031  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-827-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, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

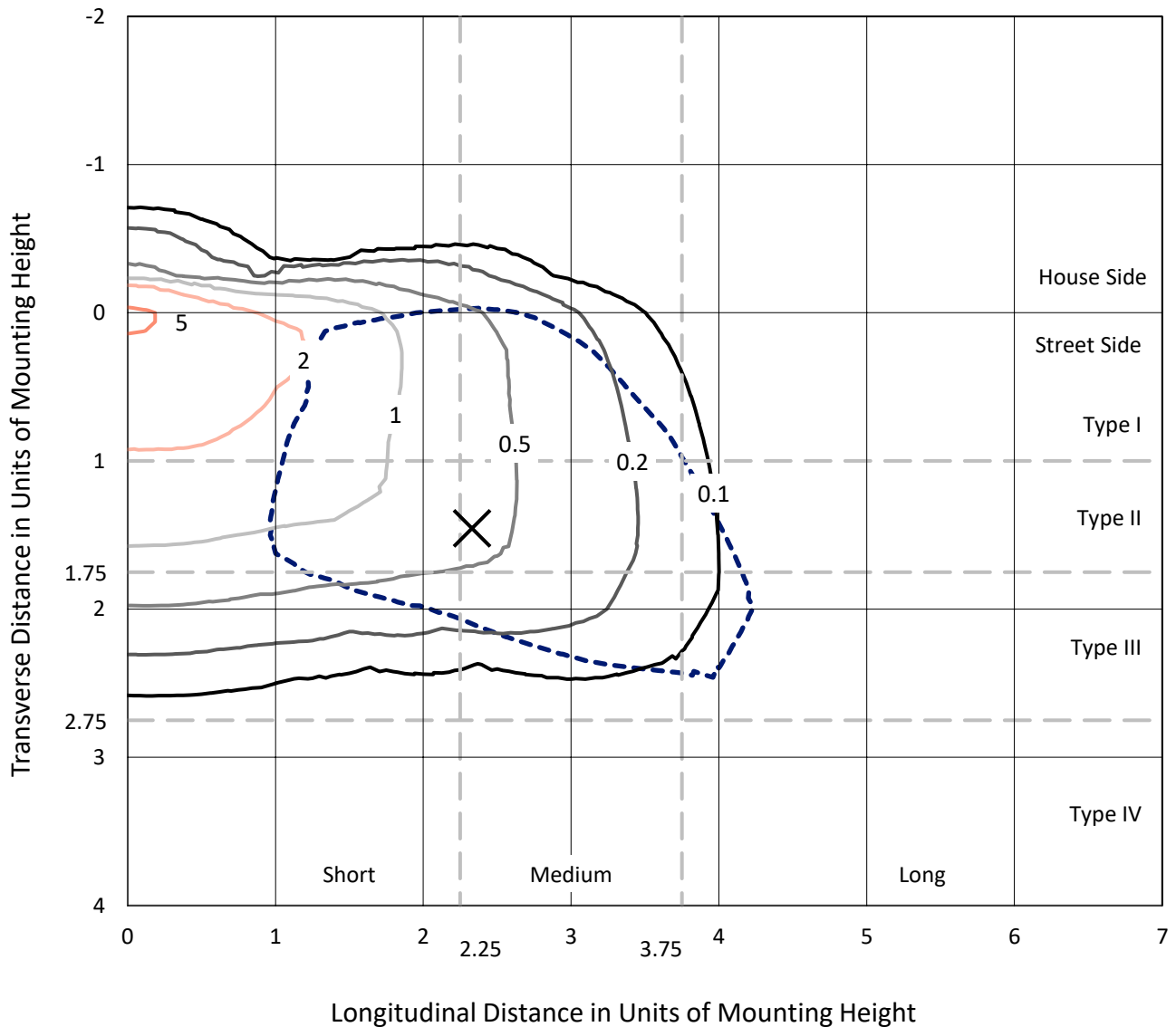
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4153.1 lumens  
Efficiency: N/A  
Efficacy: 74.0 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 (Ain): 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

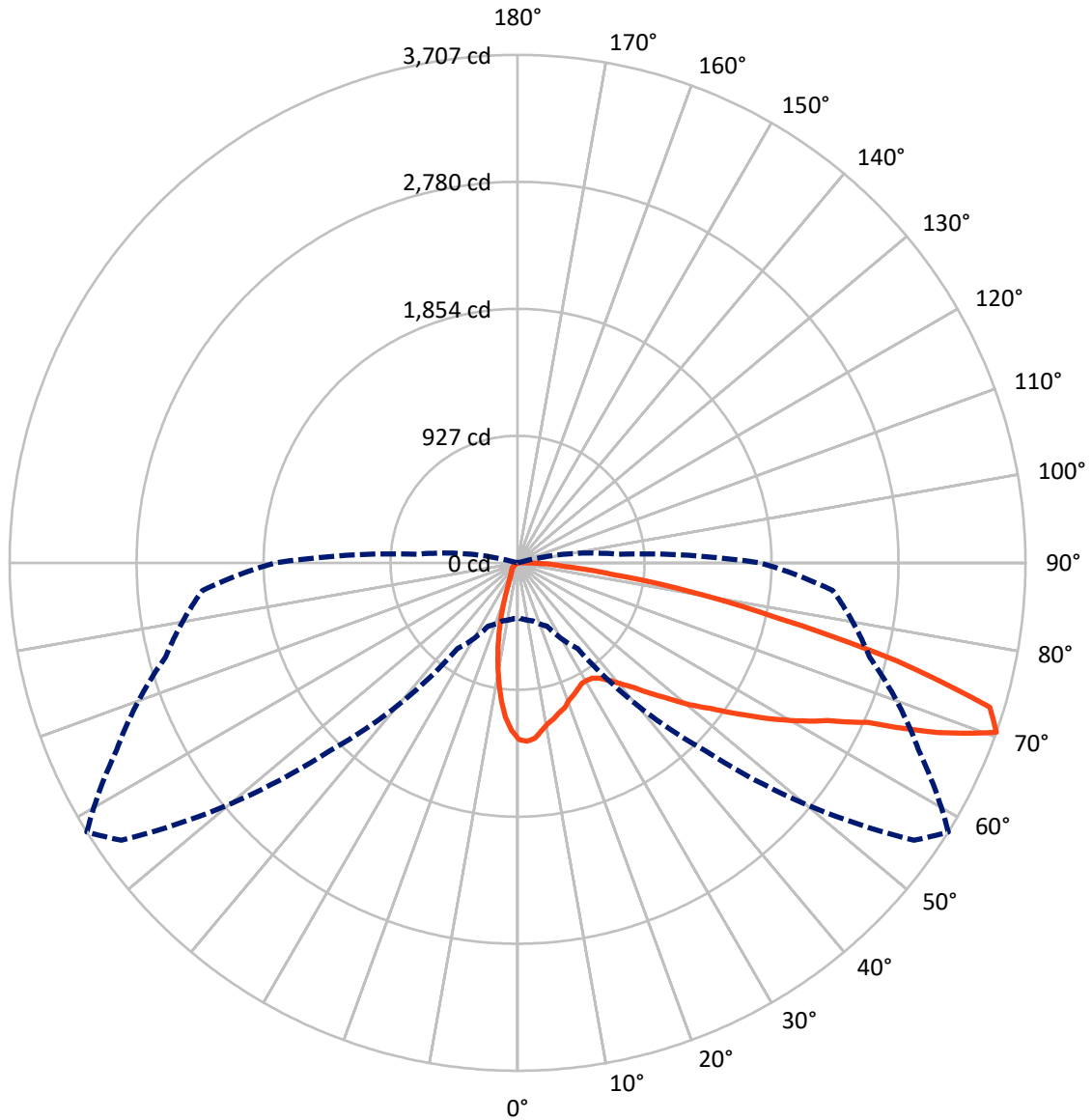
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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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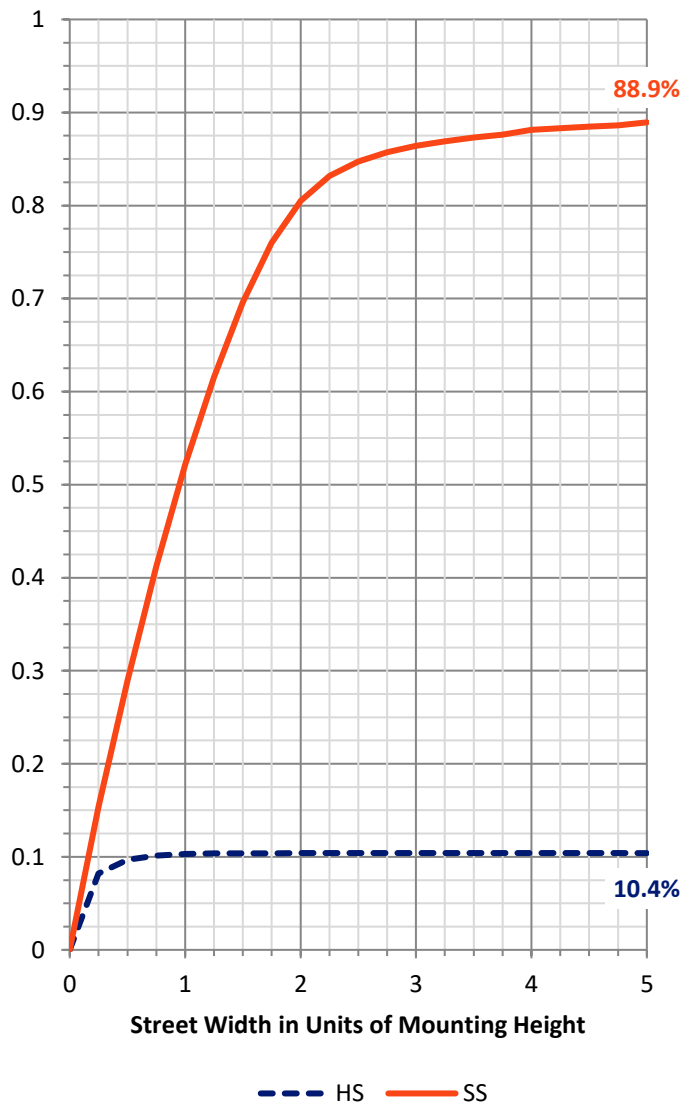
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	434.9	0.0	434.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3718.2	0.0	3718.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4153.1	0.0	4153.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	2.5
10°-20°	219.0	5.3
20°-30°	293.2	7.1
30°-40°	396.4	9.5
40°-50°	568.9	13.7
50°-60°	838.4	20.2
60°-70°	1022.6	24.6
70°-80°	624.5	15.0
80°-90°	84.8	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°	4153.1	100.0
0°-180°	4153.1	100.0

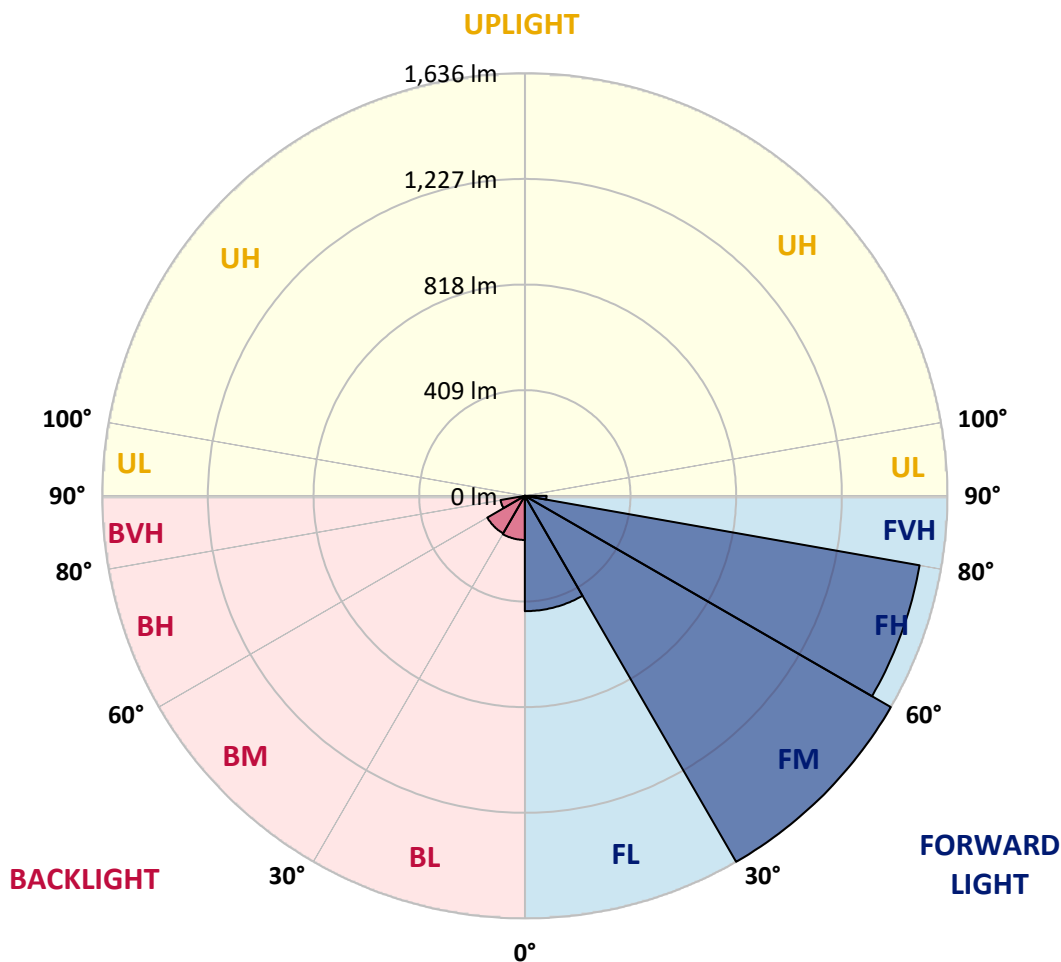


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.5	10.8			
FM (30°-60°)	1635.9	39.4			
FH (60°-80°)	1551.8	37.4			G1/1800
FVH (80°-90°)	84.0	2.0			G1/100
BL (0°-30°)	170.9	4.1	B1/500		
BM (30°-60°)	167.8	4.0	B0/220		
BH (60°-80°)	95.3	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1312.6	1317.5	1305.8	1319.4	1306.8	1312.6	1305.8	1303.9	1304.8	1305.8	1298.0
5°	1251.3	1263.0	1267.8	1260.0	1278.5	1275.6	1287.3	1288.3	1283.4	1278.5	1279.5
7.5°	1170.5	1182.1	1187.0	1191.9	1210.4	1234.7	1250.3	1240.6	1248.4	1265.9	1239.6
10°	1112.0	1109.1	1108.1	1117.9	1152.9	1173.4	1199.7	1196.8	1216.2	1232.8	1211.4
12.5°	1040.0	1034.1	1051.7	1059.5	1090.6	1126.6	1147.1	1168.5	1188.0	1205.5	1181.2
15°	986.4	991.3	998.1	1014.7	1037.1	1084.8	1115.0	1135.4	1170.5	1179.2	1169.5
17.5°	943.6	947.5	957.2	966.0	994.2	1040.0	1087.7	1112.0	1149.0	1172.4	1142.2
20°	944.5	932.9	932.9	941.6	957.2	1011.7	1062.4	1070.2	1120.8	1160.7	1140.3
22.5°	945.5	941.6	932.9	931.9	938.7	977.7	1029.3	1046.8	1101.3	1148.1	1123.7
25°	959.2	944.5	945.5	931.9	934.8	954.3	995.2	1021.5	1083.8	1154.9	1115.0
27.5°	970.8	977.7	964.0	958.2	941.6	940.7	974.7	997.1	1075.0	1170.5	1120.8
30°	997.1	1002.0	1002.0	998.1	982.5	960.1	967.9	996.2	1057.5	1167.5	1111.1
32.5°	1040.9	1032.2	1043.9	1038.0	1017.6	982.5	989.3	1003.9	1068.2	1204.5	1126.6
35°	1055.6	1062.4	1078.0	1065.3	1058.5	1038.0	1024.4	1035.1	1083.8	1241.5	1150.0
37.5°	1100.3	1090.6	1101.3	1129.6	1136.4	1099.4	1073.1	1088.7	1142.2	1285.4	1171.4
40°	1104.2	1112.0	1131.5	1187.0	1193.8	1178.2	1156.8	1160.7	1200.6	1341.8	1225.0
42.5°	1123.7	1132.5	1172.4	1219.1	1256.2	1259.1	1243.5	1243.5	1277.6	1432.4	1284.4
45°	1161.7	1147.1	1198.7	1277.6	1331.1	1341.8	1362.3	1357.4	1384.7	1527.8	1395.4
47.5°	1176.3	1181.2	1237.6	1333.1	1394.4	1444.1	1478.2	1479.1	1492.8	1649.5	1539.5
50°	1224.0	1223.0	1291.2	1379.8	1470.4	1560.9	1627.2	1627.2	1626.2	1768.3	1663.2
52.5°	1287.3	1285.4	1337.9	1443.1	1560.9	1674.9	1762.5	1765.4	1787.8	1914.4	1805.4
55°	1390.5	1381.8	1432.4	1510.3	1651.5	1789.8	1941.7	1942.7	1925.1	2018.6	1907.6
57.5°	1477.2	1476.2	1518.1	1593.1	1752.8	1937.8	2114.0	2140.3	2084.8	2125.7	1989.4
60°	1454.8	1467.5	1554.1	1665.1	1859.9	2122.8	2300.0	2340.9	2252.3	2198.7	2050.7
62.5°	1315.5	1344.8	1439.2	1616.4	1950.4	2391.6	2556.1	2537.6	2339.9	2261.1	2125.7
65°	946.5	975.7	1092.6	1358.4	1845.3	2581.4	2893.0	2809.3	2495.7	2353.6	2226.0
67.5°	557.0	568.7	641.7	866.6	1379.8	2478.2	3302.0	3308.8	2802.5	2495.7	2399.3
70°	402.2	410.9	439.2	511.2	764.4	1942.7	3529.9	3707.1	3228.0	2659.3	2307.8
72.5°	308.7	308.7	356.4	425.5	486.9	1163.6	3248.5	3603.9	3320.5	2502.6	1859.9
75°	222.0	227.9	279.5	366.1	448.9	584.3	2393.5	2859.9	2814.2	2028.3	1299.0
77.5°	127.6	130.5	196.7	306.7	421.6	401.2	1479.1	1938.8	1993.3	1269.8	562.8
80°	65.2	67.2	110.0	242.5	381.7	349.6	882.2	1276.6	1082.8	369.1	130.5
82.5°	32.1	32.1	49.7	154.8	324.3	309.7	519.0	705.0	383.7	84.7	54.5
85°	10.7	11.7	22.4	87.6	234.7	187.0	317.4	335.0	128.5	32.1	30.2
87.5°	2.9	3.9	5.8	32.1	102.2	122.7	188.9	214.2	52.6	12.7	14.6
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°	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1268.8	1262.0	1254.2	1234.7	1219.1	1198.7	1185.1	1174.4	1153.9	1157.8	1149.0
5°	1256.2	1243.5	1198.7	1155.9	1116.9	1057.5	1016.6	990.3	968.9	947.5	963.0
7.5°	1233.8	1203.6	1133.5	1053.6	970.8	892.9	815.0	768.3	734.2	703.1	702.1
10°	1195.8	1147.1	1037.1	932.9	805.3	703.1	603.7	525.8	475.2	438.2	437.2
12.5°	1152.9	1102.3	964.0	794.6	647.6	503.4	384.6	301.9	254.2	224.9	221.0
15°	1125.7	1051.7	872.5	671.9	489.8	328.2	213.3	161.6	143.1	136.3	136.3
17.5°	1090.6	1005.9	781.9	544.3	339.8	189.9	138.3	124.6	123.7	121.7	119.8
20°	1076.0	970.8	701.1	434.3	215.2	134.4	118.8	115.9	115.9	113.9	112.0
22.5°	1037.1	920.2	615.4	318.4	143.1	117.8	112.0	108.1	106.1	104.2	106.1
25°	1019.5	884.2	534.6	220.1	116.9	105.2	102.2	98.3	95.4	94.5	94.5
27.5°	1007.8	848.1	455.7	152.9	103.2	96.4	90.6	87.6	83.7	79.8	79.8
30°	999.1	819.9	379.8	113.0	92.5	85.7	80.8	74.0	69.1	65.2	65.2
32.5°	987.4	786.8	303.8	96.4	83.7	76.9	68.2	62.3	55.5	52.6	52.6
35°	991.3	764.4	238.6	85.7	75.0	66.2	58.4	50.6	43.8	40.9	39.9
37.5°	999.1	747.8	181.1	76.9	67.2	57.5	48.7	39.9	36.0	32.1	32.1
40°	1032.2	743.0	133.4	71.1	61.3	50.6	40.9	33.1	29.2	26.3	25.3
42.5°	1087.7	749.8	103.2	64.3	55.5	42.8	34.1	27.3	23.4	20.4	19.5
45°	1158.8	776.1	84.7	60.4	48.7	36.0	27.3	22.4	17.5	15.6	15.6
47.5°	1262.0	817.0	74.0	55.5	42.8	30.2	23.4	17.5	13.6	11.7	11.7
50°	1378.8	863.7	65.2	49.7	37.0	25.3	18.5	13.6	9.7	8.8	8.8
52.5°	1495.7	923.1	60.4	45.8	32.1	20.4	14.6	9.7	6.8	5.8	5.8
55°	1618.4	975.7	54.5	42.8	26.3	16.6	10.7	5.8	3.9	2.9	2.9
57.5°	1704.1	996.2	47.7	37.0	20.4	12.7	7.8	3.9	1.9	1.0	1.0
60°	1765.4	999.1	40.9	30.2	15.6	9.7	4.9	1.9	1.0	0.0	0.0
62.5°	1817.0	1004.9	35.1	23.4	11.7	6.8	2.9	1.0	0.0	0.0	0.0
65°	1919.3	1000.1	28.2	18.5	7.8	3.9	1.9	0.0	0.0	0.0	0.0
67.5°	2000.1	951.4	22.4	12.7	4.9	1.9	1.0	0.0	0.0	0.0	0.0
70°	1769.3	725.5	17.5	8.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1389.6	484.0	11.7	4.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
75°	911.4	240.5	8.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	354.4	63.3	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.7	21.4	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.0	7.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.4	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	1.9	1.0	1.0	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)