

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: P677052

Luminaire Tested: **CCW-SA-1D-835-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677052  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-835-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

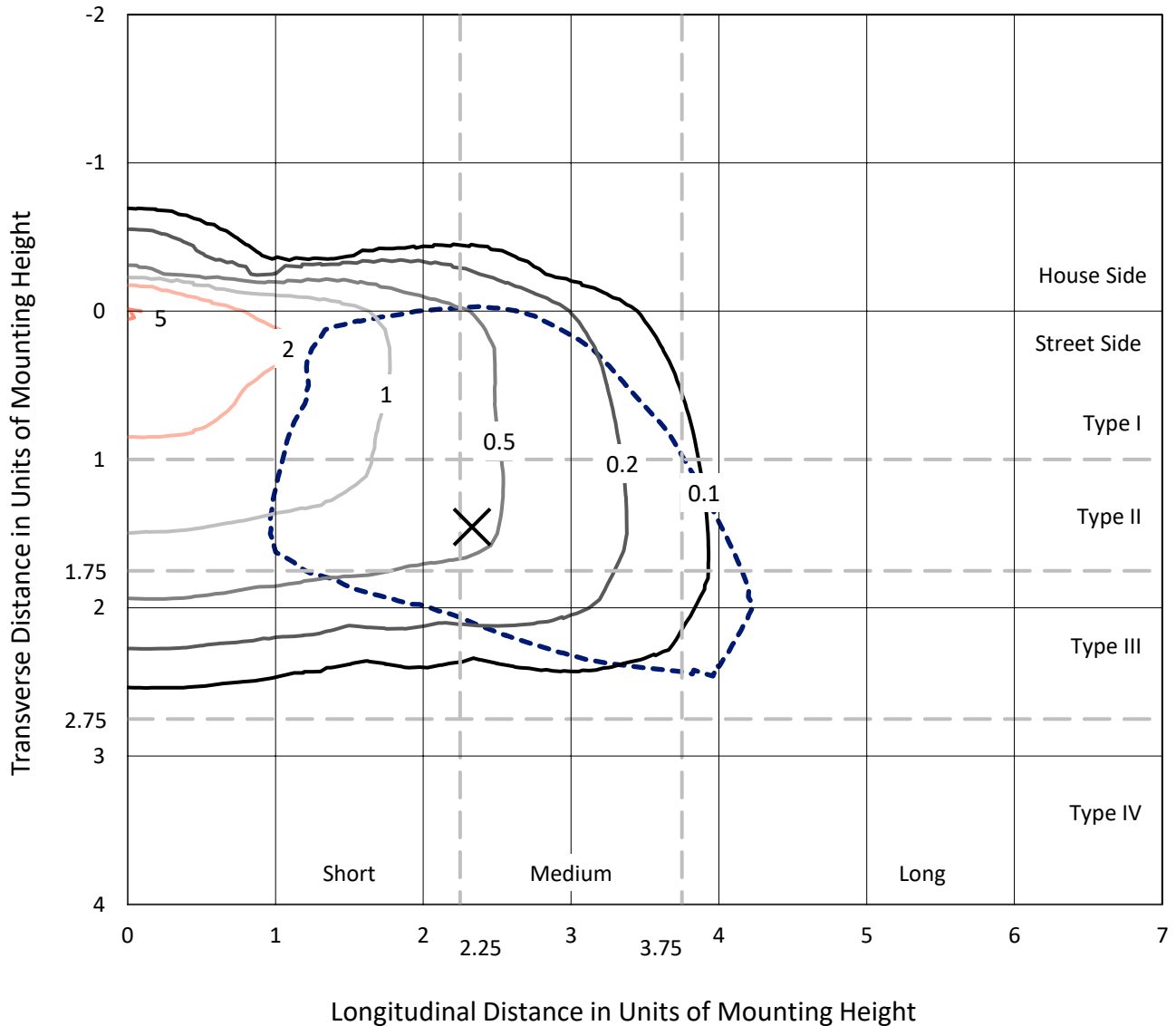
Lumens per Lamp: N/A  
Luminaire Lumens: 3797.4 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

REPORT NUMBER: P677052  
 CATALOG NUMBER: CCW-SA-1D-835-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

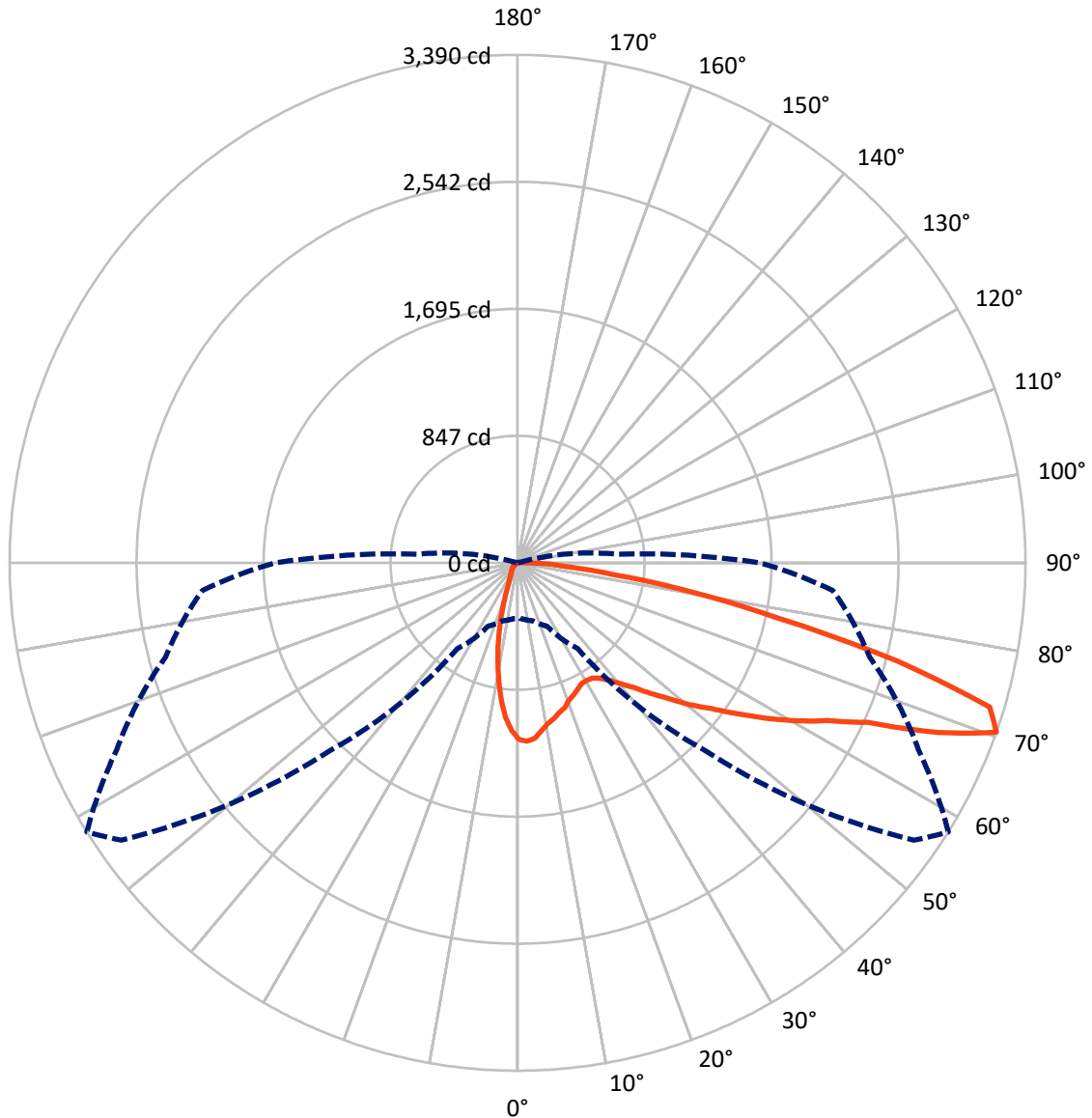
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677052  
CATALOG NUMBER: CCW-SA-1D-835-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P677052  
 CATALOG NUMBER: CCW-SA-1D-835-U-SL3-HSS

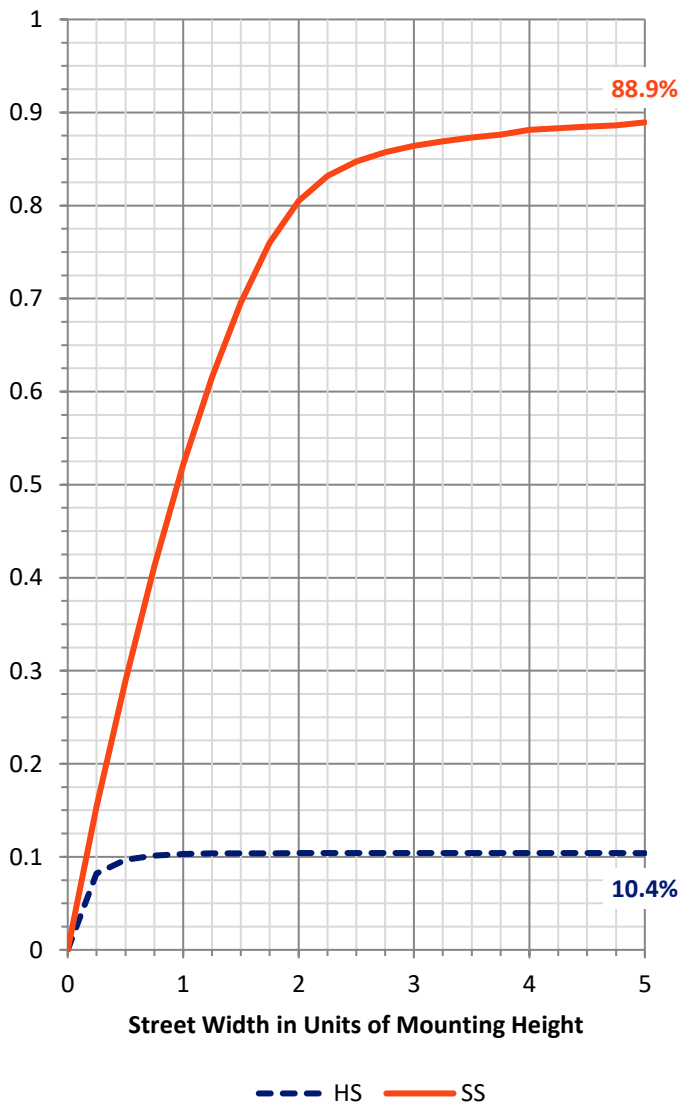
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	397.7	0.0	397.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3399.7	0.0	3399.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3797.4	0.0	3797.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	2.5
10°-20°	200.2	5.3
20°-30°	268.1	7.1
30°-40°	362.4	9.5
40°-50°	520.2	13.7
50°-60°	766.6	20.2
60°-70°	935.0	24.6
70°-80°	571.0	15.0
80°-90°	77.6	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°	3797.4	100.0
0°-180°	3797.4	100.0

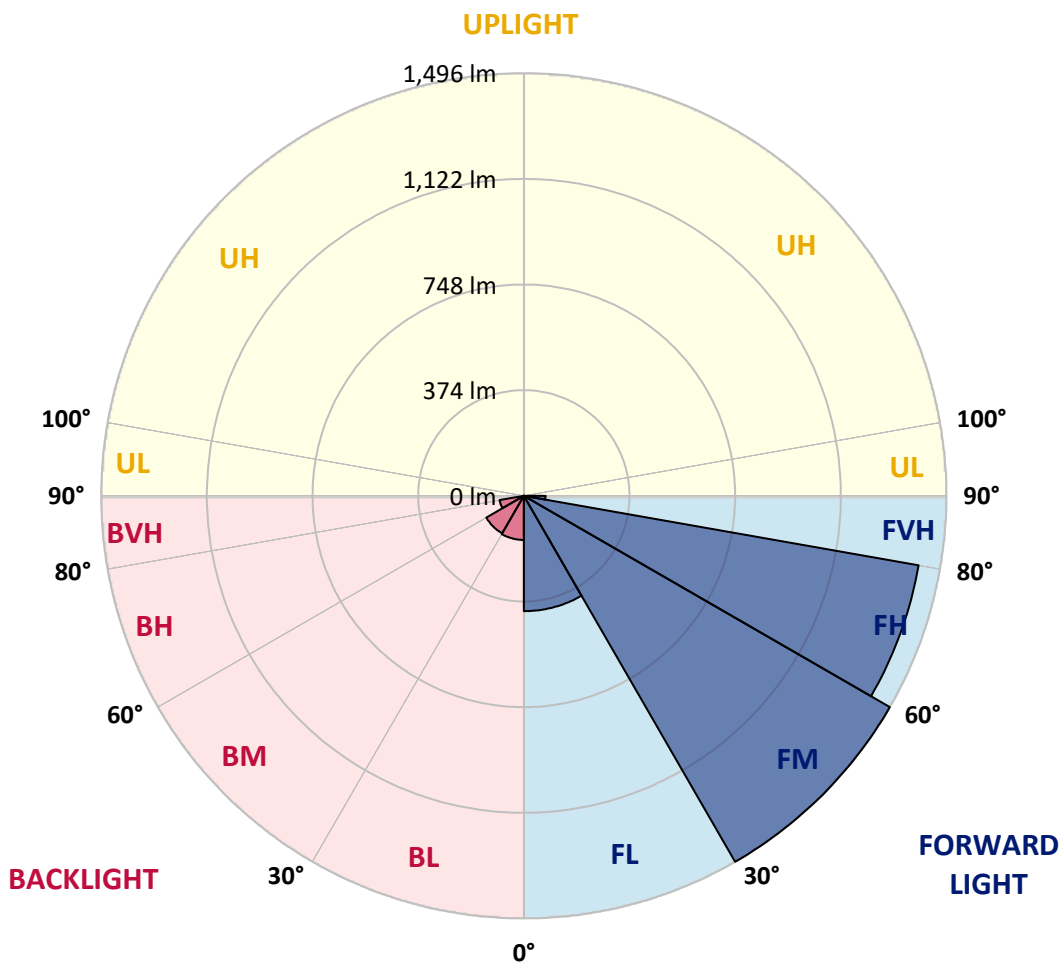


REPORT NUMBER: P677052  
 CATALOG NUMBER: CCW-SA-1D-835-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.3	10.8			
FM (30°-60°)	1495.7	39.4			
FH (60°-80°)	1418.9	37.4			G1/1800
FVH (80°-90°)	76.8	2.0			G1/100
BL (0°-30°)	156.3	4.1	B1/500		
BM (30°-60°)	153.5	4.0	B0/220		
BH (60°-80°)	87.2	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





REPORT NUMBER: P677052

CATALOG NUMBER: CCW-SA-1D-835-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1200.2	1204.6	1193.9	1206.4	1194.8	1200.2	1193.9	1192.2	1193.1	1193.9	1186.8
5°	1144.1	1154.8	1159.2	1152.1	1169.0	1166.3	1177.0	1177.9	1173.5	1169.0	1169.9
7.5°	1070.2	1080.9	1085.3	1089.8	1106.7	1129.0	1143.2	1134.3	1141.4	1157.4	1133.4
10°	1016.8	1014.1	1013.2	1022.1	1054.2	1072.9	1096.9	1094.2	1112.0	1127.2	1107.6
12.5°	950.9	945.5	961.6	968.7	997.2	1030.1	1048.8	1068.4	1086.2	1102.2	1080.0
15°	901.9	906.4	912.6	927.7	948.2	991.8	1019.4	1038.1	1070.2	1078.2	1069.3
17.5°	862.7	866.3	875.2	883.2	909.0	950.9	994.5	1016.8	1050.6	1072.0	1044.4
20°	863.6	852.9	852.9	861.0	875.2	925.1	971.4	978.5	1024.8	1061.3	1042.6
22.5°	864.5	861.0	852.9	852.1	858.3	893.9	941.1	957.1	1007.0	1049.7	1027.5
25°	877.0	863.6	864.5	852.1	854.7	872.5	909.9	934.0	991.0	1055.9	1019.4
27.5°	887.7	893.9	881.4	876.1	861.0	860.1	891.2	911.7	982.9	1070.2	1024.8
30°	911.7	916.2	916.2	912.6	898.4	877.9	885.0	910.8	966.9	1067.5	1015.9
32.5°	951.8	943.8	954.4	949.1	930.4	898.4	904.6	917.9	976.7	1101.4	1030.1
35°	965.1	971.4	985.6	974.0	967.8	949.1	936.6	946.4	991.0	1135.2	1051.5
37.5°	1006.1	997.2	1007.0	1032.8	1039.0	1005.2	981.2	995.4	1044.4	1175.3	1071.1
40°	1009.6	1016.8	1034.6	1085.3	1091.6	1077.3	1057.7	1061.3	1097.8	1226.9	1120.1
42.5°	1027.5	1035.5	1072.0	1114.7	1148.5	1151.2	1137.0	1137.0	1168.1	1309.7	1174.4
45°	1062.2	1048.8	1096.0	1168.1	1217.1	1226.9	1245.6	1241.1	1266.1	1396.9	1275.9
47.5°	1075.5	1080.0	1131.6	1218.9	1275.0	1320.4	1351.5	1352.4	1364.9	1508.2	1407.6
50°	1119.2	1118.3	1180.6	1261.6	1344.4	1427.2	1487.8	1487.8	1486.9	1616.9	1520.7
52.5°	1177.0	1175.3	1223.3	1319.5	1427.2	1531.4	1611.5	1614.2	1634.7	1750.4	1650.7
55°	1271.4	1263.4	1309.7	1380.9	1510.0	1636.5	1775.3	1776.2	1760.2	1845.7	1744.2
57.5°	1350.7	1349.8	1388.0	1456.6	1602.6	1771.8	1932.9	1957.0	1906.2	1943.6	1819.0
60°	1330.2	1341.7	1421.0	1522.5	1700.6	1940.9	2103.0	2140.4	2059.4	2010.4	1875.1
62.5°	1202.9	1229.6	1315.9	1478.0	1783.4	2186.7	2337.2	2320.2	2139.5	2067.4	1943.6
65°	865.4	892.1	999.0	1242.0	1687.2	2360.3	2645.2	2568.6	2281.9	2152.0	2035.3
67.5°	509.3	520.0	586.7	792.4	1261.6	2265.9	3019.2	3025.4	2562.4	2281.9	2193.8
70°	367.7	375.7	401.5	467.4	698.9	1776.2	3227.5	3389.5	2951.5	2431.5	2110.1
72.5°	282.2	282.2	325.9	389.1	445.2	1064.0	2970.2	3295.2	3036.1	2288.2	1700.6
75°	203.0	208.3	255.5	334.8	410.4	534.2	2188.5	2614.9	2573.1	1854.6	1187.7
77.5°	116.6	119.3	179.8	280.5	385.5	366.8	1352.4	1772.7	1822.5	1161.0	514.6
80°	59.7	61.4	100.6	221.7	349.0	319.6	806.7	1167.2	990.1	337.4	119.3
82.5°	29.4	29.4	45.4	141.6	296.5	283.1	474.6	644.6	350.8	77.5	49.9
85°	9.8	10.7	20.5	80.1	214.6	170.9	290.3	306.3	117.5	29.4	27.6
87.5°	2.7	3.6	5.3	29.4	93.5	112.2	172.7	195.9	48.1	11.6	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677052

CATALOG NUMBER: CCW-SA-1D-835-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1160.1	1153.9	1146.8	1129.0	1114.7	1096.0	1083.5	1073.8	1055.1	1058.6	1050.6
5°	1148.5	1137.0	1096.0	1056.8	1021.2	966.9	929.5	905.5	885.9	866.3	880.5
7.5°	1128.1	1100.5	1036.4	963.4	887.7	816.4	745.2	702.5	671.3	642.8	641.9
10°	1093.3	1048.8	948.2	852.9	736.3	642.8	552.0	480.8	434.5	400.7	399.8
12.5°	1054.2	1007.9	881.4	726.5	592.1	460.3	351.7	276.0	232.4	205.7	202.1
15°	1029.2	961.6	797.7	614.3	447.8	300.0	195.0	147.8	130.9	124.6	124.6
17.5°	997.2	919.7	714.9	497.7	310.7	173.6	126.4	114.0	113.1	111.3	109.5
20°	983.8	887.7	641.0	397.1	196.8	122.9	108.6	106.0	106.0	104.2	102.4
22.5°	948.2	841.4	562.7	291.1	130.9	107.7	102.4	98.8	97.0	95.3	97.0
25°	932.2	808.4	488.8	201.2	106.8	96.2	93.5	89.9	87.3	86.4	86.4
27.5°	921.5	775.5	416.7	139.8	94.4	88.1	82.8	80.1	76.6	73.0	73.0
30°	913.5	749.7	347.2	103.3	84.6	78.4	73.9	67.7	63.2	59.7	59.7
32.5°	902.8	719.4	277.8	88.1	76.6	70.3	62.3	57.0	50.7	48.1	48.1
35°	906.4	698.9	218.1	78.4	68.6	60.5	53.4	46.3	40.1	37.4	36.5
37.5°	913.5	683.8	165.6	70.3	61.4	52.5	44.5	36.5	32.9	29.4	29.4
40°	943.8	679.3	122.0	65.0	56.1	46.3	37.4	30.3	26.7	24.0	23.1
42.5°	994.5	685.6	94.4	58.8	50.7	39.2	31.2	24.9	21.4	18.7	17.8
45°	1059.5	709.6	77.5	55.2	44.5	32.9	24.9	20.5	16.0	14.2	14.2
47.5°	1153.9	747.0	67.7	50.7	39.2	27.6	21.4	16.0	12.5	10.7	10.7
50°	1260.7	789.7	59.7	45.4	33.8	23.1	16.9	12.5	8.9	8.0	8.0
52.5°	1367.6	844.0	55.2	41.8	29.4	18.7	13.4	8.9	6.2	5.3	5.3
55°	1479.7	892.1	49.9	39.2	24.0	15.1	9.8	5.3	3.6	2.7	2.7
57.5°	1558.1	910.8	43.6	33.8	18.7	11.6	7.1	3.6	1.8	0.9	0.9
60°	1614.2	913.5	37.4	27.6	14.2	8.9	4.5	1.8	0.9	0.0	0.0
62.5°	1661.4	918.8	32.1	21.4	10.7	6.2	2.7	0.9	0.0	0.0	0.0
65°	1754.9	914.4	25.8	16.9	7.1	3.6	1.8	0.0	0.0	0.0	0.0
67.5°	1828.8	869.9	20.5	11.6	4.5	1.8	0.9	0.0	0.0	0.0	0.0
70°	1617.8	663.3	16.0	8.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1270.5	442.5	10.7	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	833.4	219.9	8.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	324.1	57.9	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	78.4	19.6	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.8	7.1	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.5	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	1.8	0.9	0.9	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)