

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: P677077

Luminaire Tested: **CCW-SA-2A-850-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677077
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-850-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL3 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

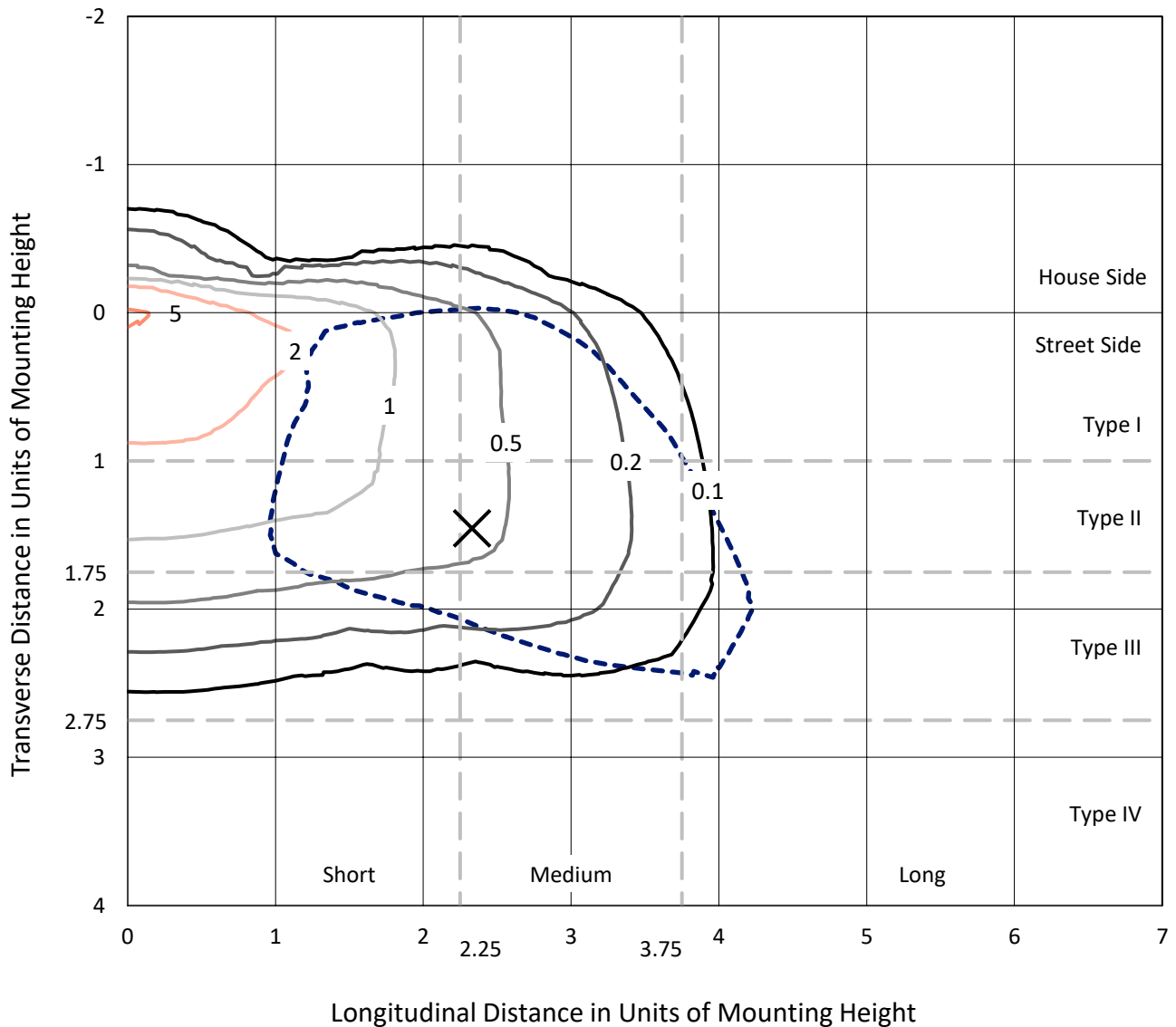
Lumens per Lamp: N/A
Luminaire Lumens: 3945.4 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

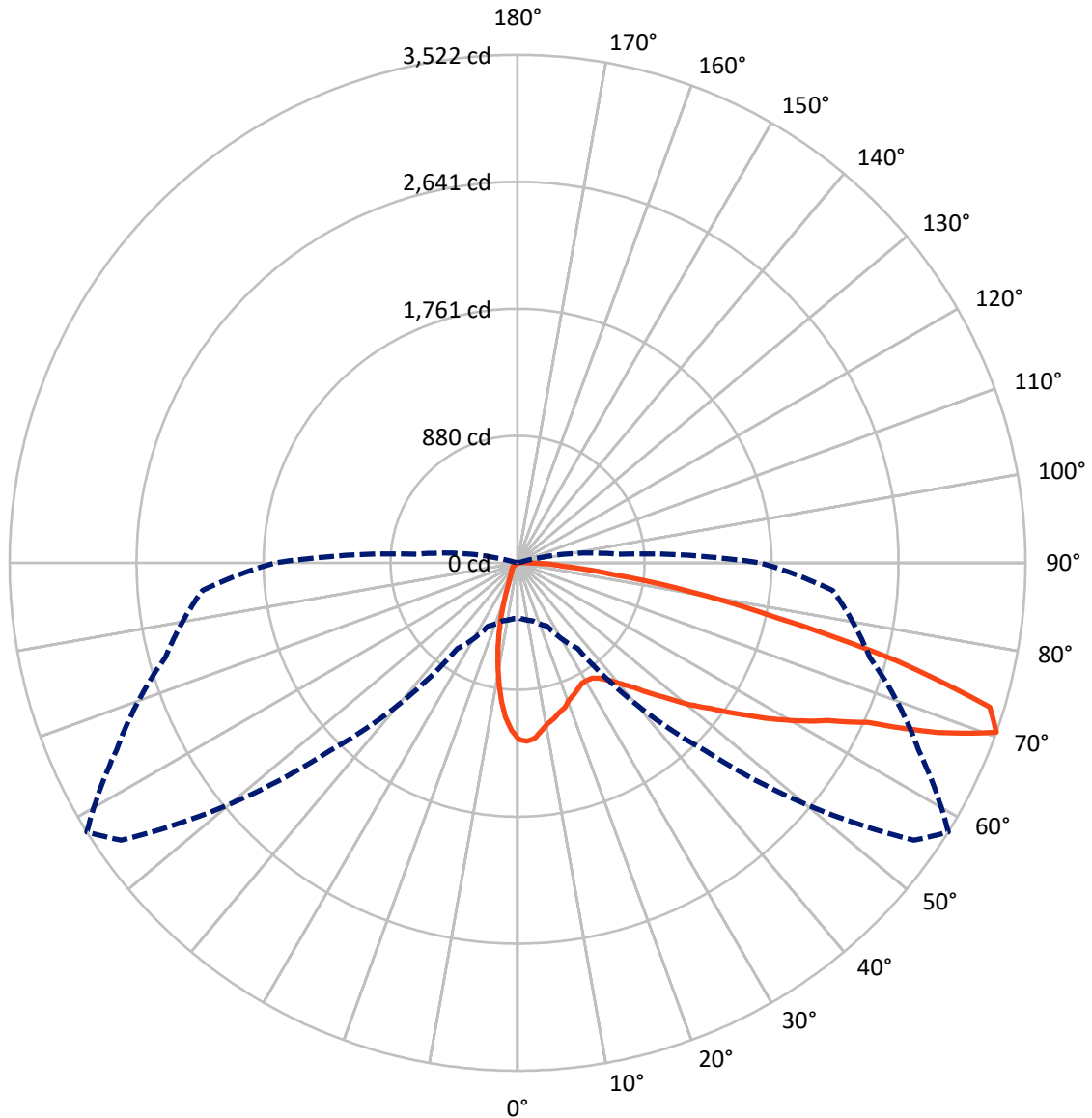
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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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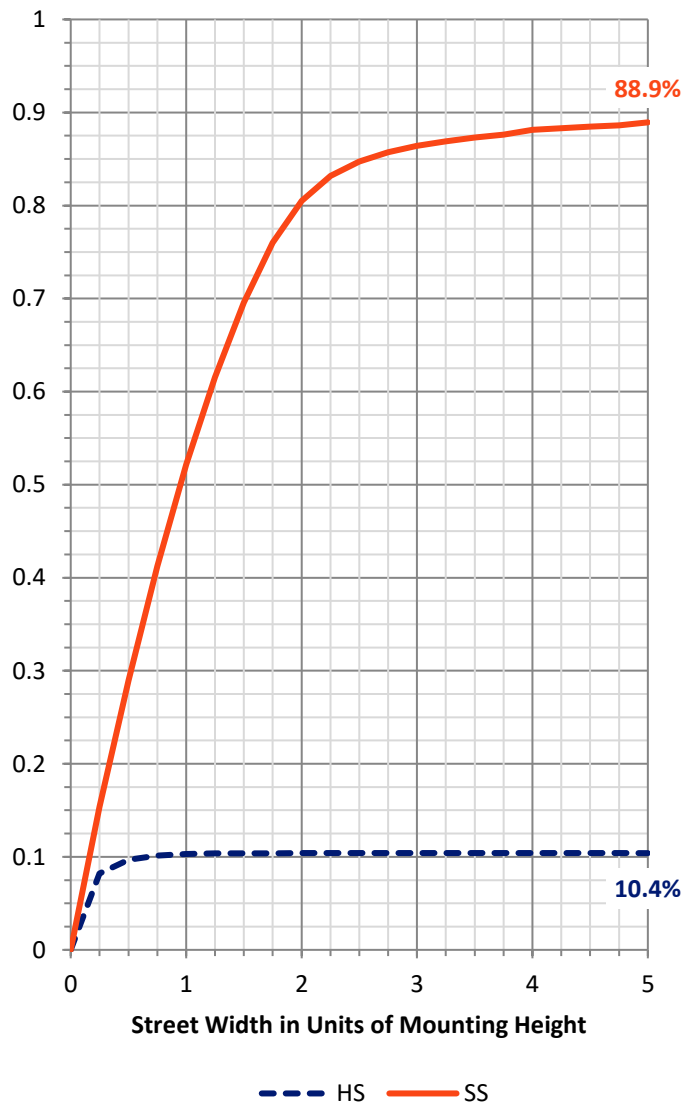
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	413.2	0.0	413.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3532.3	0.0	3532.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	3945.4	0.0	3945.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	2.5
10°-20°	208.1	5.3
20°-30°	278.6	7.1
30°-40°	376.6	9.5
40°-50°	540.5	13.7
50°-60°	796.5	20.2
60°-70°	971.5	24.6
70°-80°	593.2	15.0
80°-90°	80.6	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°	3945.4	100.0
0°-180°	3945.4	100.0

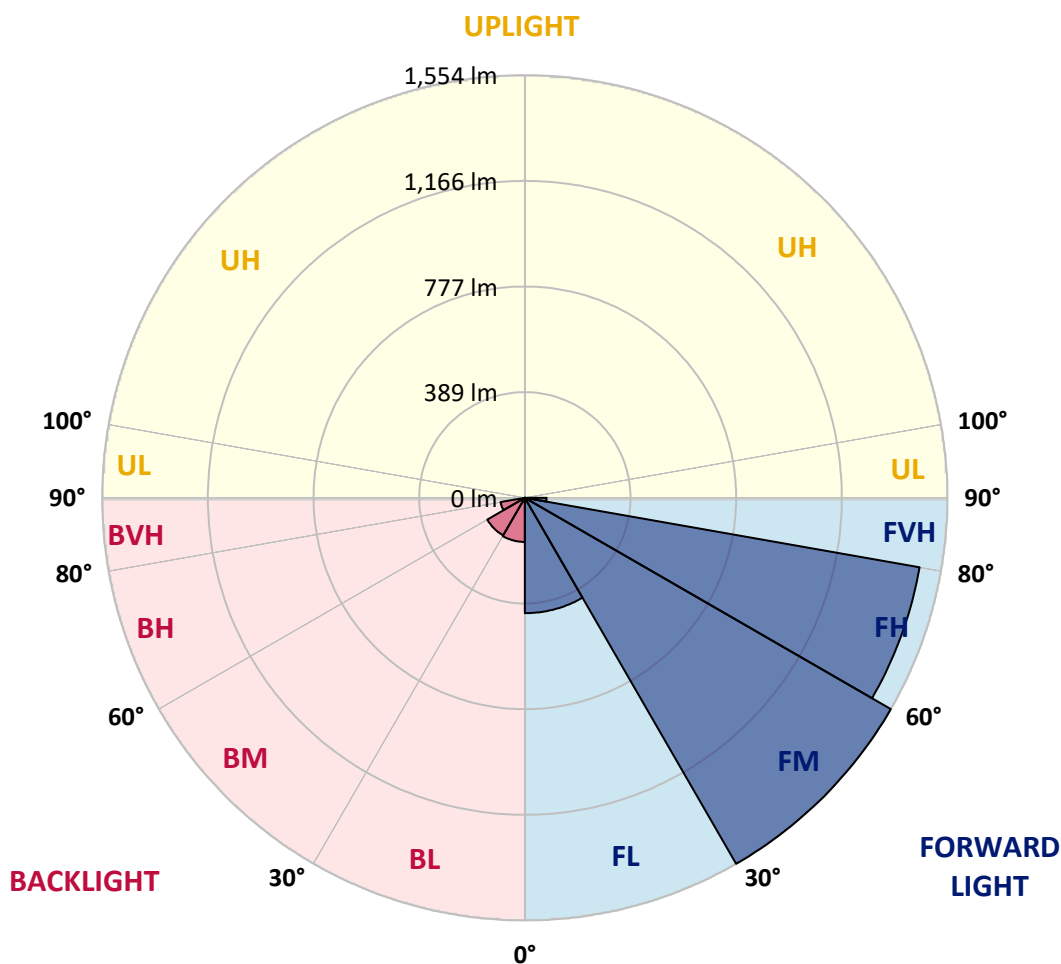


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.2	10.8			
FM (30°-60°)	1554.1	39.4			
FH (60°-80°)	1474.2	37.4			G1/1800
FVH (80°-90°)	79.8	2.0			G1/100
BL (0°-30°)	162.4	4.1	B1/500		
BM (30°-60°)	159.5	4.0	B0/220		
BH (60°-80°)	90.5	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°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1247.0	1251.6	1240.5	1253.5	1241.4	1247.0	1240.5	1238.7	1239.6	1240.5	1233.1
5°	1188.7	1199.8	1204.4	1197.0	1214.6	1211.8	1222.9	1223.9	1219.2	1214.6	1215.5
7.5°	1111.9	1123.0	1127.6	1132.3	1149.8	1173.0	1187.8	1178.5	1185.9	1202.6	1177.6
10°	1056.4	1053.6	1052.7	1062.0	1095.3	1114.7	1139.7	1136.9	1155.4	1171.1	1150.8
12.5°	988.0	982.4	999.1	1006.5	1036.1	1070.3	1089.7	1110.1	1128.6	1145.2	1122.1
15°	937.1	941.7	948.2	963.9	985.2	1030.5	1059.2	1078.6	1111.9	1120.2	1111.0
17.5°	896.4	900.1	909.3	917.7	944.5	988.0	1033.3	1056.4	1091.6	1113.8	1085.1
20°	897.3	886.2	886.2	894.5	909.3	961.1	1009.2	1016.6	1064.7	1102.7	1083.2
22.5°	898.2	894.5	886.2	885.3	891.8	928.8	977.8	994.4	1046.2	1090.6	1067.5
25°	911.2	897.3	898.2	885.3	888.1	906.6	945.4	970.4	1029.6	1097.1	1059.2
27.5°	922.3	928.8	915.8	910.3	894.5	893.6	926.0	947.3	1021.3	1111.9	1064.7
30°	947.3	951.9	951.9	948.2	933.4	912.1	919.5	946.3	1004.6	1109.1	1055.5
32.5°	988.9	980.6	991.7	986.1	966.7	933.4	939.9	953.7	1014.8	1144.3	1070.3
35°	1002.8	1009.2	1024.0	1012.0	1005.5	986.1	973.2	983.3	1029.6	1179.5	1092.5
37.5°	1045.3	1036.1	1046.2	1073.1	1079.5	1044.4	1019.4	1034.2	1085.1	1221.1	1112.8
40°	1049.0	1056.4	1074.9	1127.6	1134.1	1119.3	1099.0	1102.7	1140.6	1274.7	1163.7
42.5°	1067.5	1075.8	1113.8	1158.2	1193.3	1196.1	1181.3	1181.3	1213.7	1360.8	1220.2
45°	1103.6	1089.7	1138.7	1213.7	1264.6	1274.7	1294.2	1289.5	1315.4	1451.4	1325.6
47.5°	1117.5	1122.1	1175.8	1266.4	1324.7	1371.9	1404.2	1405.2	1418.1	1567.1	1462.5
50°	1162.8	1161.9	1226.6	1310.8	1396.8	1482.9	1545.8	1545.8	1544.8	1679.9	1580.0
52.5°	1222.9	1221.1	1271.0	1370.9	1482.9	1591.1	1674.4	1677.1	1698.4	1818.7	1715.1
55°	1321.0	1312.7	1360.8	1434.8	1568.9	1700.3	1844.6	1845.5	1828.8	1917.6	1812.2
57.5°	1403.3	1402.4	1442.2	1513.4	1665.1	1840.9	2008.3	2033.3	1980.6	2019.4	1889.9
60°	1382.0	1394.1	1476.4	1581.9	1766.9	2016.6	2185.0	2223.8	2139.7	2088.8	1948.2
62.5°	1249.8	1277.5	1367.2	1535.6	1852.9	2271.9	2428.3	2410.7	2222.9	2148.0	2019.4
65°	899.2	926.9	1037.9	1290.5	1753.0	2452.3	2748.4	2668.8	2370.9	2235.9	2114.7
67.5°	529.1	540.2	609.6	823.3	1310.8	2354.3	3136.9	3143.4	2662.3	2370.9	2279.3
70°	382.0	390.4	417.2	485.7	726.2	1845.5	3353.3	3521.7	3066.6	2526.3	2192.4
72.5°	293.2	293.2	338.6	404.3	462.5	1105.4	3086.0	3423.6	3154.5	2377.4	1766.9
75°	210.9	216.5	265.5	347.8	426.5	555.0	2273.8	2716.9	2673.4	1926.9	1234.0
77.5°	121.2	124.0	186.9	291.4	400.6	381.1	1405.2	1841.8	1893.6	1206.3	534.7
80°	62.0	63.8	104.5	230.3	362.6	332.1	838.1	1212.8	1028.7	350.6	124.0
82.5°	30.5	30.5	47.2	147.1	308.0	294.2	493.1	669.7	364.5	80.5	51.8
85°	10.2	11.1	21.3	83.3	222.9	177.6	301.6	318.2	122.1	30.5	28.7
87.5°	2.8	3.7	5.6	30.5	97.1	116.6	179.5	203.5	50.0	12.0	13.9
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°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1205.4	1198.9	1191.5	1173.0	1158.2	1138.7	1125.8	1115.6	1096.2	1099.9	1091.6
5°	1193.3	1181.3	1138.7	1098.0	1061.0	1004.6	965.8	940.8	920.4	900.1	914.9
7.5°	1172.1	1143.4	1076.8	1000.9	922.3	848.3	774.3	729.9	697.5	667.9	667.0
10°	1136.0	1089.7	985.2	886.2	765.0	667.9	573.5	499.5	451.4	416.3	415.4
12.5°	1095.3	1047.2	915.8	754.8	615.2	478.3	365.4	286.8	241.4	213.7	210.0
15°	1069.4	999.1	828.9	638.3	465.3	311.7	202.6	153.6	136.0	129.5	129.5
17.5°	1036.1	955.6	742.8	517.1	322.8	180.4	131.4	118.4	117.5	115.6	113.8
20°	1022.2	922.3	666.0	412.6	204.4	127.7	112.9	110.1	110.1	108.2	106.4
22.5°	985.2	874.2	584.6	302.5	136.0	111.9	106.4	102.7	100.8	99.0	100.8
25°	968.5	840.0	507.9	209.1	111.0	99.9	97.1	93.4	90.7	89.7	89.7
27.5°	957.4	805.7	432.9	145.2	98.1	91.6	86.0	83.3	79.6	75.9	75.9
30°	949.1	778.9	360.8	107.3	87.9	81.4	76.8	70.3	65.7	62.0	62.0
32.5°	938.0	747.4	288.6	91.6	79.6	73.1	64.8	59.2	52.7	50.0	50.0
35°	941.7	726.2	226.6	81.4	71.2	62.9	55.5	48.1	41.6	38.9	37.9
37.5°	949.1	710.4	172.1	73.1	63.8	54.6	46.3	37.9	34.2	30.5	30.5
40°	980.6	705.8	126.7	67.5	58.3	48.1	38.9	31.5	27.8	25.0	24.1
42.5°	1033.3	712.3	98.1	61.1	52.7	40.7	32.4	25.9	22.2	19.4	18.5
45°	1100.8	737.3	80.5	57.4	46.3	34.2	25.9	21.3	16.7	14.8	14.8
47.5°	1198.9	776.1	70.3	52.7	40.7	28.7	22.2	16.7	13.0	11.1	11.1
50°	1309.9	820.5	62.0	47.2	35.2	24.1	17.6	13.0	9.3	8.3	8.3
52.5°	1420.9	877.0	57.4	43.5	30.5	19.4	13.9	9.3	6.5	5.6	5.6
55°	1537.4	926.9	51.8	40.7	25.0	15.7	10.2	5.6	3.7	2.8	2.8
57.5°	1618.9	946.3	45.3	35.2	19.4	12.0	7.4	3.7	1.9	0.9	0.9
60°	1677.1	949.1	38.9	28.7	14.8	9.3	4.6	1.9	0.9	0.0	0.0
62.5°	1726.2	954.7	33.3	22.2	11.1	6.5	2.8	0.9	0.0	0.0	0.0
65°	1823.3	950.0	26.8	17.6	7.4	3.7	1.9	0.0	0.0	0.0	0.0
67.5°	1900.1	903.8	21.3	12.0	4.6	1.9	0.9	0.0	0.0	0.0	0.0
70°	1680.8	689.2	16.7	8.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1320.1	459.8	11.1	4.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	865.9	228.5	8.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	336.7	60.1	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	81.4	20.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.2	7.4	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	1.9	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)