

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: P675061

Luminaire Tested: **CCW-SA-2A-850-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675061  
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-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T3 distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

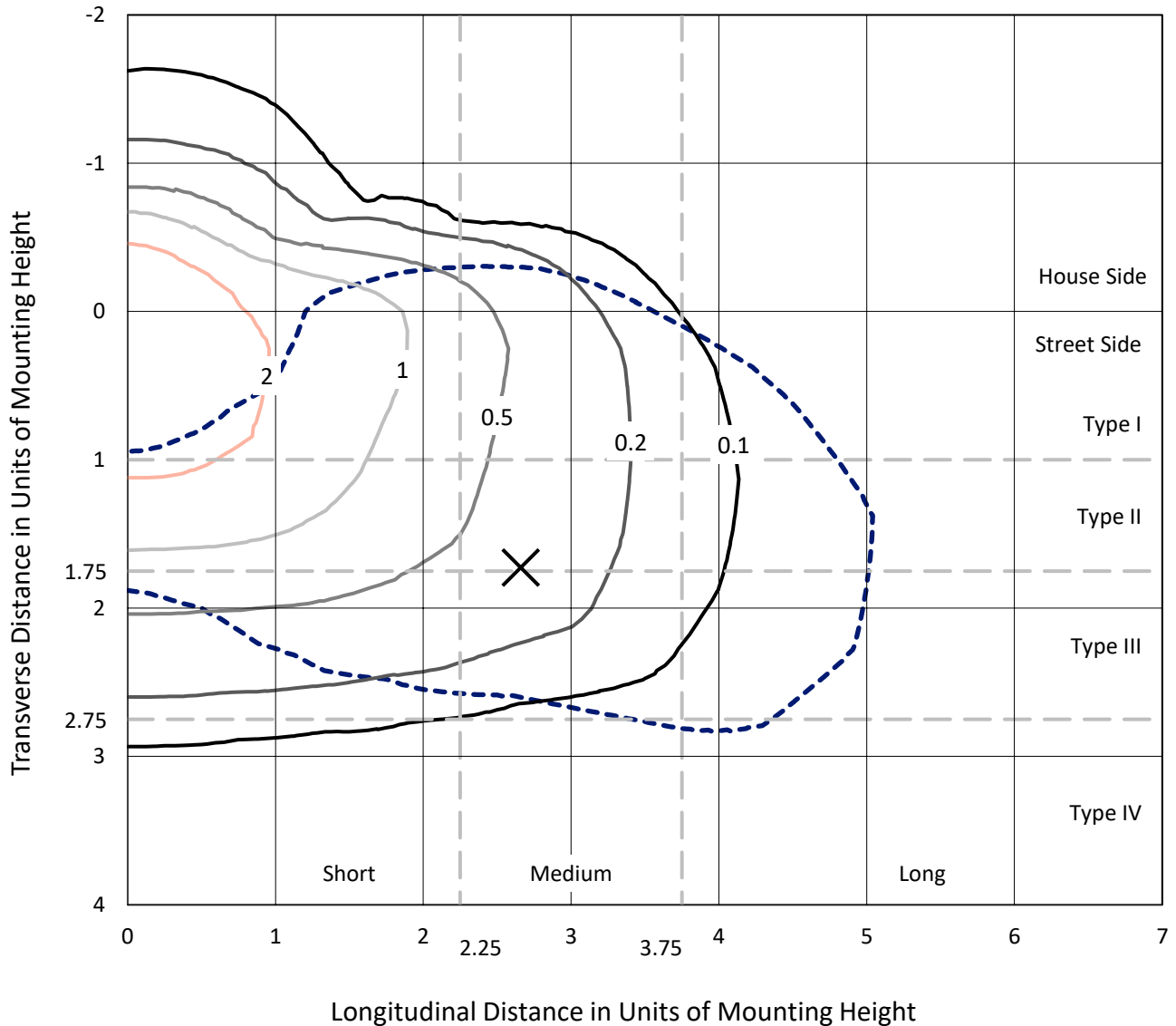
Lumens per Lamp: N/A  
Luminaire Lumens: 4824.1 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (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

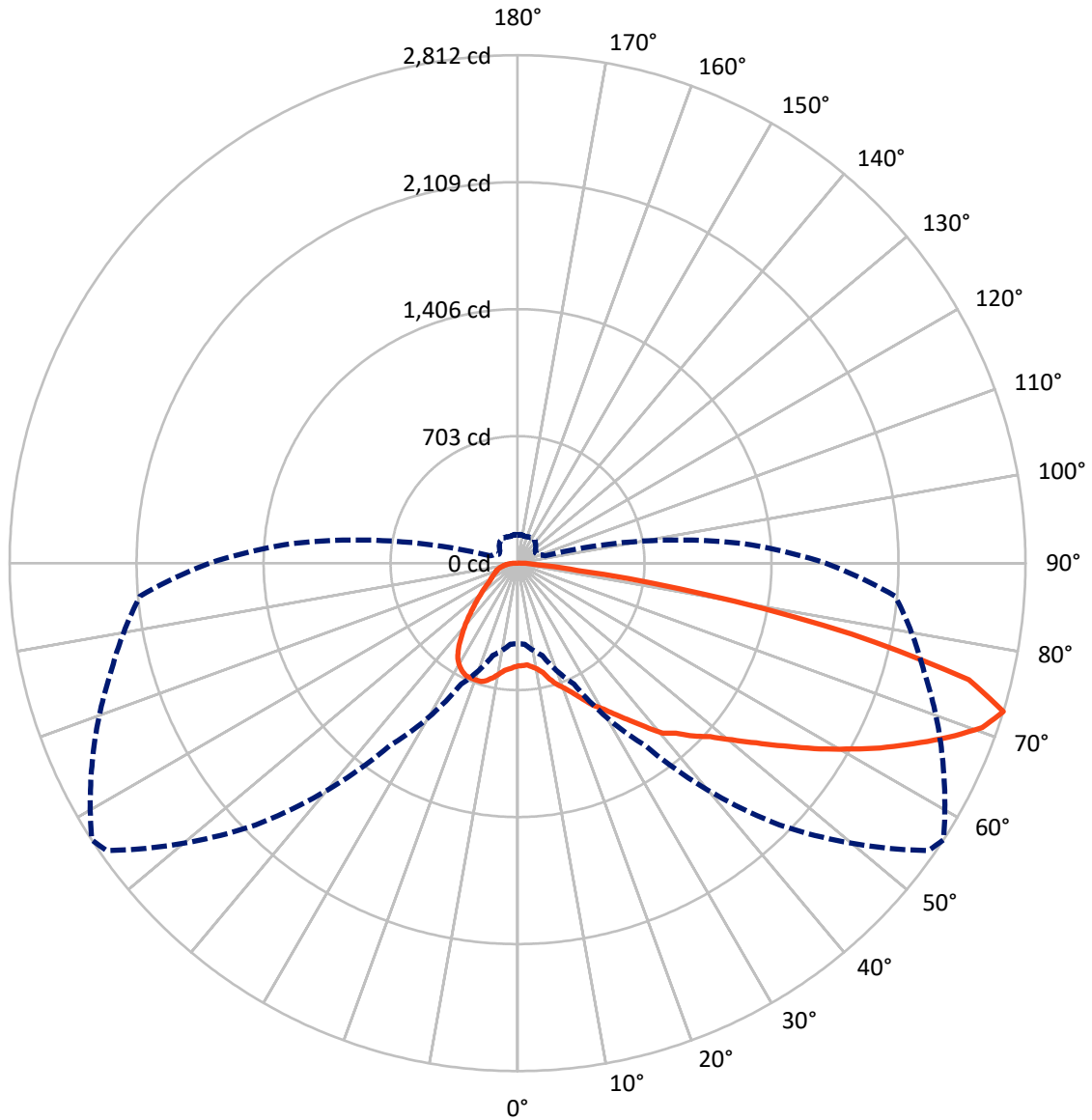
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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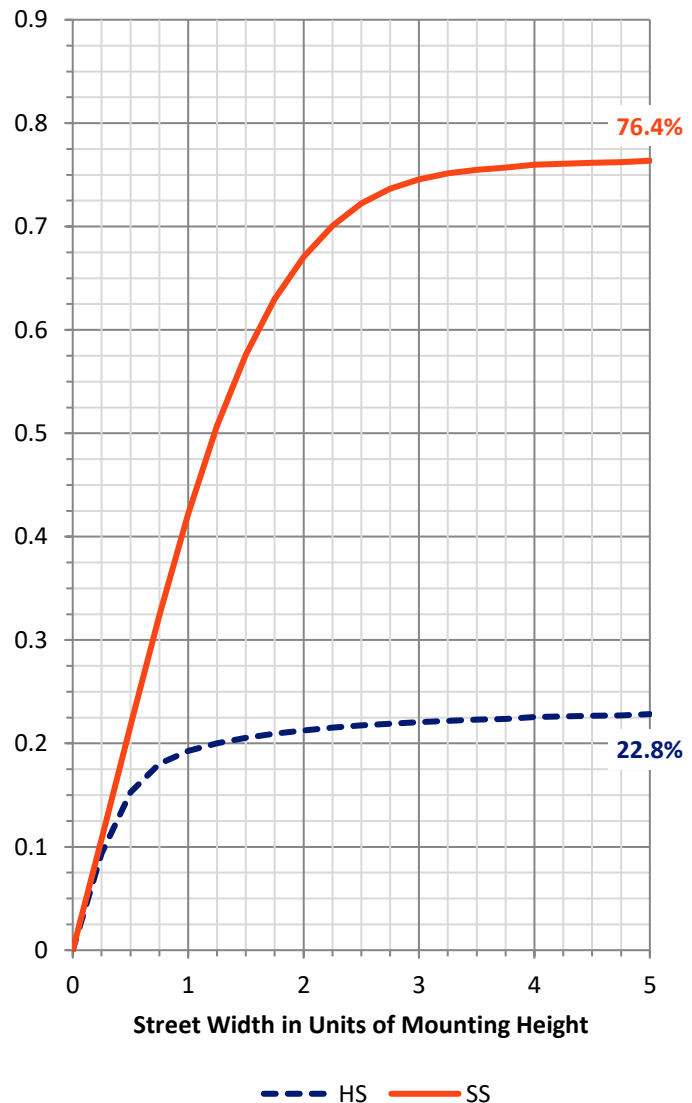
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1126.6	0.0	1126.6
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	3697.5	0.0	3697.5
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	4824.1	0.0	4824.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	1.2
10°-20°	190.5	3.9
20°-30°	348.2	7.2
30°-40°	510.9	10.6
40°-50°	703.4	14.6
50°-60°	964.6	20.0
60°-70°	1162.7	24.1
70°-80°	774.5	16.1
80°-90°	112.8	2.3
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°	4824.1	100.0
0°-180°	4824.1	100.0



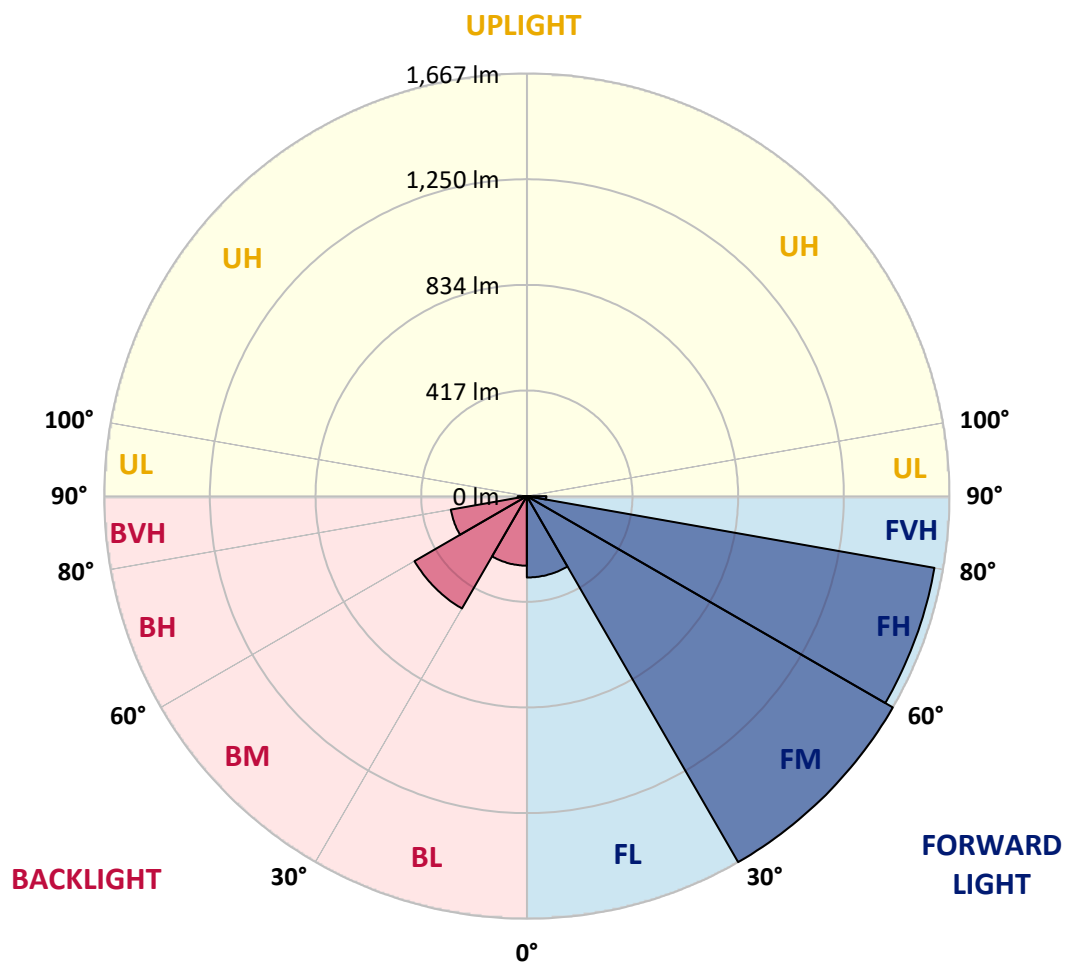
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.9	6.7			
FM (30°-60°)	1667.1	34.6			
FH (60°-80°)	1632.7	33.8			G1/1800
FVH (80°-90°)	76.8	1.6			G1/100
BL (0°-30°)	274.3	5.7	B1/500		
BM (30°-60°)	511.7	10.6	B1/1000		
BH (60°-80°)	304.6	6.3	B1/500		G1/500
BVH (80°-90°)	36.0	0.7			G1/100
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°	57°	65°	75°	85°
0°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4
2.5°	558.9	560.6	564.1	562.4	562.4	557.1	565.9	567.6	564.1	565.9	569.4
5°	558.9	562.4	567.6	564.1	565.9	564.1	560.6	565.9	565.9	567.6	572.9
7.5°	588.7	587.0	587.0	581.7	579.9	578.2	579.9	579.9	576.4	578.2	578.2
10°	622.1	622.1	618.6	618.6	615.1	606.3	597.5	595.8	590.5	592.2	592.2
12.5°	657.3	660.8	664.3	653.8	650.2	636.2	630.9	620.4	620.4	616.9	615.1
15°	701.2	695.9	699.4	695.9	687.1	673.1	664.3	666.1	653.8	650.2	645.0
17.5°	739.9	741.6	736.4	732.8	717.0	706.5	708.2	706.5	690.7	685.4	676.6
20°	785.6	783.8	783.8	773.3	759.2	745.1	739.9	738.1	741.6	731.1	710.0
22.5°	833.0	826.0	826.0	817.2	797.9	789.1	785.6	778.5	782.0	773.3	741.6
25°	871.7	871.7	884.0	866.4	855.9	838.3	831.3	833.0	834.8	817.2	780.3
27.5°	922.6	913.9	926.2	917.4	912.1	892.8	884.0	889.2	885.7	866.4	815.4
30°	987.7	989.4	982.4	970.1	963.1	949.0	943.7	938.5	943.7	919.1	854.1
32.5°	1068.5	1073.8	1056.2	1042.1	1029.8	1015.8	1005.2	1000.0	1005.2	968.3	884.0
35°	1161.6	1166.9	1152.9	1137.0	1123.0	1087.8	1079.0	1070.3	1050.9	991.2	912.1
37.5°	1247.8	1240.7	1237.2	1237.2	1210.9	1159.9	1154.6	1149.3	1112.4	1036.9	950.8
40°	1305.8	1314.5	1311.0	1307.5	1304.0	1256.5	1246.0	1237.2	1175.7	1105.4	1005.2
42.5°	1370.8	1365.5	1379.6	1384.8	1372.5	1358.5	1316.3	1286.4	1231.9	1175.7	1086.1
45°	1448.1	1444.6	1449.9	1469.2	1451.6	1456.9	1386.6	1365.5	1297.0	1263.6	1188.0
47.5°	1516.6	1525.4	1551.8	1557.1	1543.0	1567.6	1469.2	1435.8	1391.9	1365.5	1293.5
50°	1546.5	1557.1	1616.8	1653.7	1655.5	1694.1	1551.8	1537.7	1478.0	1488.5	1425.3
52.5°	1521.9	1555.3	1627.4	1724.0	1783.8	1822.4	1660.8	1653.7	1599.2	1632.6	1569.4
55°	1544.8	1576.4	1623.8	1759.2	1910.3	1919.1	1811.9	1785.5	1731.0	1776.7	1718.7
57.5°	1555.3	1537.7	1627.4	1797.8	2003.4	2026.3	1956.0	1936.7	1894.5	1938.4	1905.0
60°	1472.7	1493.8	1578.2	1787.3	2008.7	2140.5	2117.7	2089.6	2050.9	2091.3	2072.0
62.5°	1379.6	1393.6	1485.0	1724.0	2038.6	2223.1	2274.1	2253.0	2198.5	2233.7	2267.1
65°	1261.8	1263.6	1365.5	1611.5	1980.6	2270.6	2411.2	2409.4	2370.7	2362.0	2414.7
67.5°	1117.7	1131.8	1212.6	1492.0	1901.5	2323.3	2546.5	2572.8	2495.5	2427.0	2446.3
70°	857.6	871.7	949.0	1223.2	1739.8	2307.5	2713.4	2727.5	2576.4	2402.4	2353.2
72.5°	446.4	449.9	529.0	738.1	1233.7	2049.1	2774.9	2811.9	2597.5	2330.3	2098.3
75°	147.6	147.6	181.0	281.2	581.7	1311.0	2513.1	2579.9	2493.8	2151.1	1717.0
77.5°	87.9	89.6	107.2	140.6	232.0	523.7	1771.5	1889.2	2040.4	1829.5	1254.8
80°	63.3	65.0	80.8	96.7	138.8	168.7	889.2	1052.7	1253.0	1177.5	669.6
82.5°	47.5	47.5	63.3	72.1	94.9	100.2	247.8	339.2	541.3	421.8	184.5
85°	49.2	49.2	49.2	51.0	65.0	58.0	103.7	110.7	158.2	138.8	51.0
87.5°	17.6	19.3	49.2	33.4	33.4	24.6	40.4	43.9	56.2	58.0	19.3
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°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4
2.5°	571.2	571.2	572.9	572.9	576.4	579.9	585.2	581.7	581.7	583.5	581.7
5°	569.4	571.2	576.4	585.2	588.7	590.5	601.0	601.0	601.0	604.5	604.5
7.5°	576.4	579.9	588.7	597.5	599.3	604.5	618.6	622.1	630.9	634.4	636.2
10°	594.0	599.3	606.3	616.9	623.9	630.9	641.5	653.8	652.0	662.5	664.3
12.5°	620.4	618.6	630.9	641.5	648.5	659.0	662.5	662.5	662.5	662.5	666.1
15°	641.5	645.0	655.5	662.5	671.3	669.6	662.5	655.5	657.3	655.5	655.5
17.5°	673.1	673.1	681.9	683.6	687.1	669.6	659.0	659.0	664.3	664.3	660.8
20°	704.7	703.0	706.5	704.7	681.9	660.8	659.0	660.8	662.5	660.8	659.0
22.5°	734.6	731.1	725.8	718.8	678.4	659.0	655.5	646.7	637.9	637.9	632.7
25°	761.0	757.4	743.4	722.3	676.6	648.5	630.9	609.8	599.3	594.0	601.0
27.5°	785.6	778.5	759.2	722.3	660.8	620.4	587.0	560.6	551.8	544.8	551.8
30°	819.0	806.7	780.3	717.0	636.2	576.4	530.7	499.1	490.3	479.8	483.3
32.5°	848.8	820.7	797.9	701.2	604.5	527.2	474.5	442.9	427.1	418.3	425.3
35°	880.5	852.3	804.9	676.6	555.3	467.5	414.7	384.9	372.6	360.3	360.3
37.5°	912.1	896.3	815.4	630.9	495.6	411.2	363.8	340.9	319.8	297.0	297.0
40°	978.9	957.8	827.7	578.2	435.8	356.8	323.4	293.5	272.4	240.8	239.0
42.5°	1049.2	1003.5	827.7	514.9	383.1	318.1	286.5	254.8	216.2	196.8	198.6
45°	1138.8	1086.1	804.9	458.7	330.4	286.5	251.3	210.9	193.3	181.0	181.0
47.5°	1251.3	1168.7	776.8	397.2	288.2	258.3	214.4	189.8	177.5	167.0	165.2
50°	1384.8	1244.2	741.6	344.5	253.1	232.0	195.1	175.7	165.2	158.2	158.2
52.5°	1525.4	1355.0	717.0	297.0	224.9	196.8	181.0	168.7	159.9	154.7	152.9
55°	1667.8	1465.7	699.4	246.0	198.6	181.0	177.5	167.0	163.4	158.2	154.7
57.5°	1827.7	1557.1	695.9	210.9	177.5	174.0	181.0	172.2	167.0	161.7	156.4
60°	1999.9	1680.1	664.3	182.8	167.0	170.5	175.7	167.0	163.4	158.2	154.7
62.5°	2170.4	1771.5	578.2	161.7	156.4	159.9	167.0	159.9	154.7	156.4	158.2
65°	2240.7	1778.5	448.1	145.9	144.1	145.9	156.4	154.7	149.4	159.9	159.9
67.5°	2170.4	1715.2	316.3	131.8	131.8	140.6	158.2	161.7	156.4	170.5	168.7
70°	2010.5	1558.8	214.4	123.0	126.5	149.4	163.4	159.9	152.9	170.5	167.0
72.5°	1706.4	1247.8	156.4	114.2	119.5	142.4	161.7	158.2	152.9	159.9	152.9
75°	1281.2	887.5	123.0	103.7	105.4	128.3	167.0	158.2	144.1	140.6	135.3
77.5°	855.9	548.3	94.9	91.4	91.4	112.5	159.9	147.6	130.0	124.8	123.0
80°	407.7	219.7	75.6	77.3	79.1	96.7	145.9	131.8	117.7	110.7	110.7
82.5°	130.0	82.6	63.3	63.3	63.3	79.1	121.3	110.7	101.9	96.7	87.9
85°	45.7	45.7	54.5	56.2	51.0	58.0	100.2	94.9	84.4	70.3	68.5
87.5°	17.6	26.4	36.9	43.9	31.6	40.4	72.1	66.8	61.5	45.7	43.9
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)