

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: P677122

Luminaire Tested: **CCW-SA-2A-730-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677122  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-730-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

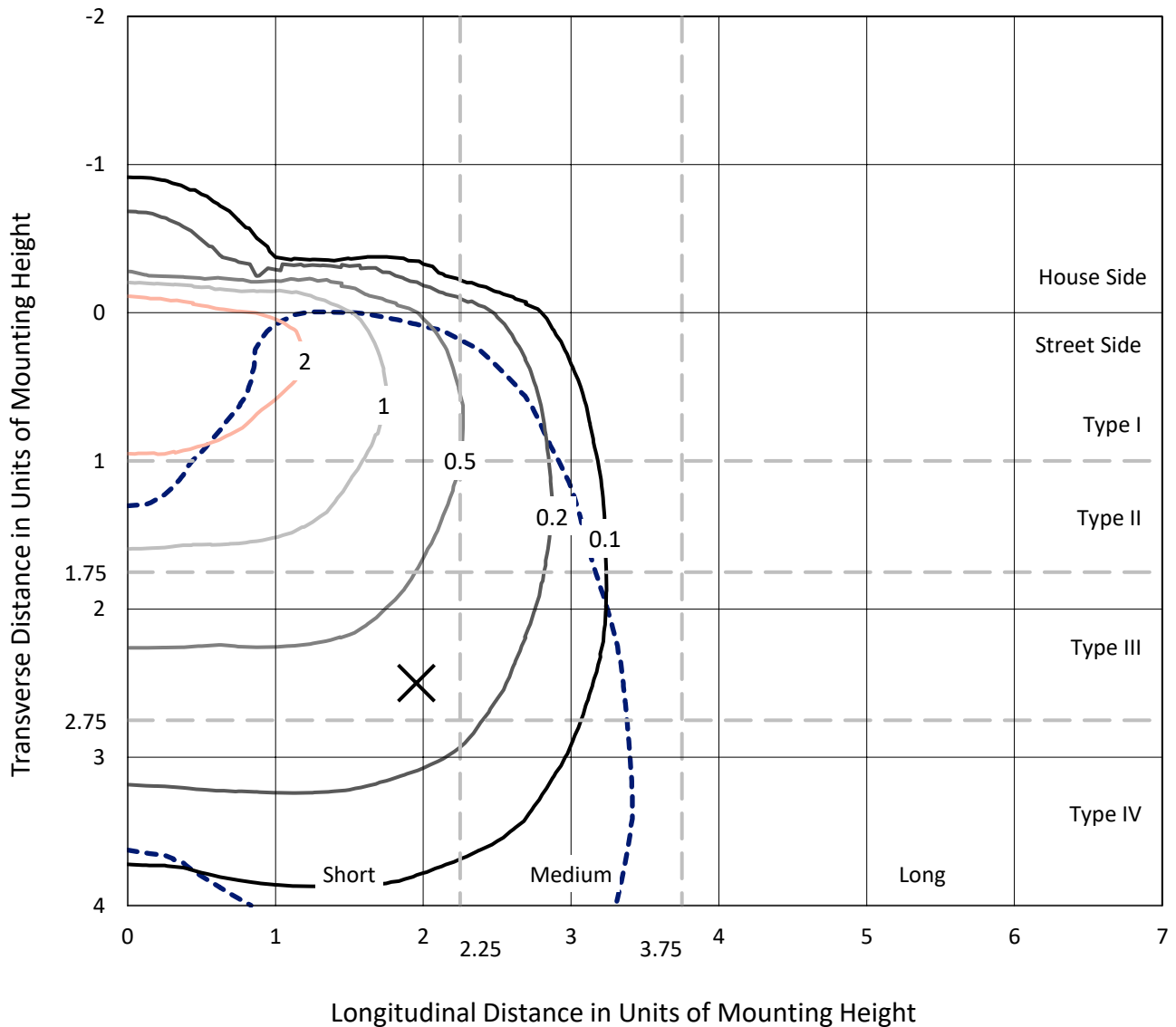
Lumens per Lamp: N/A  
Luminaire Lumens: 4115.6 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

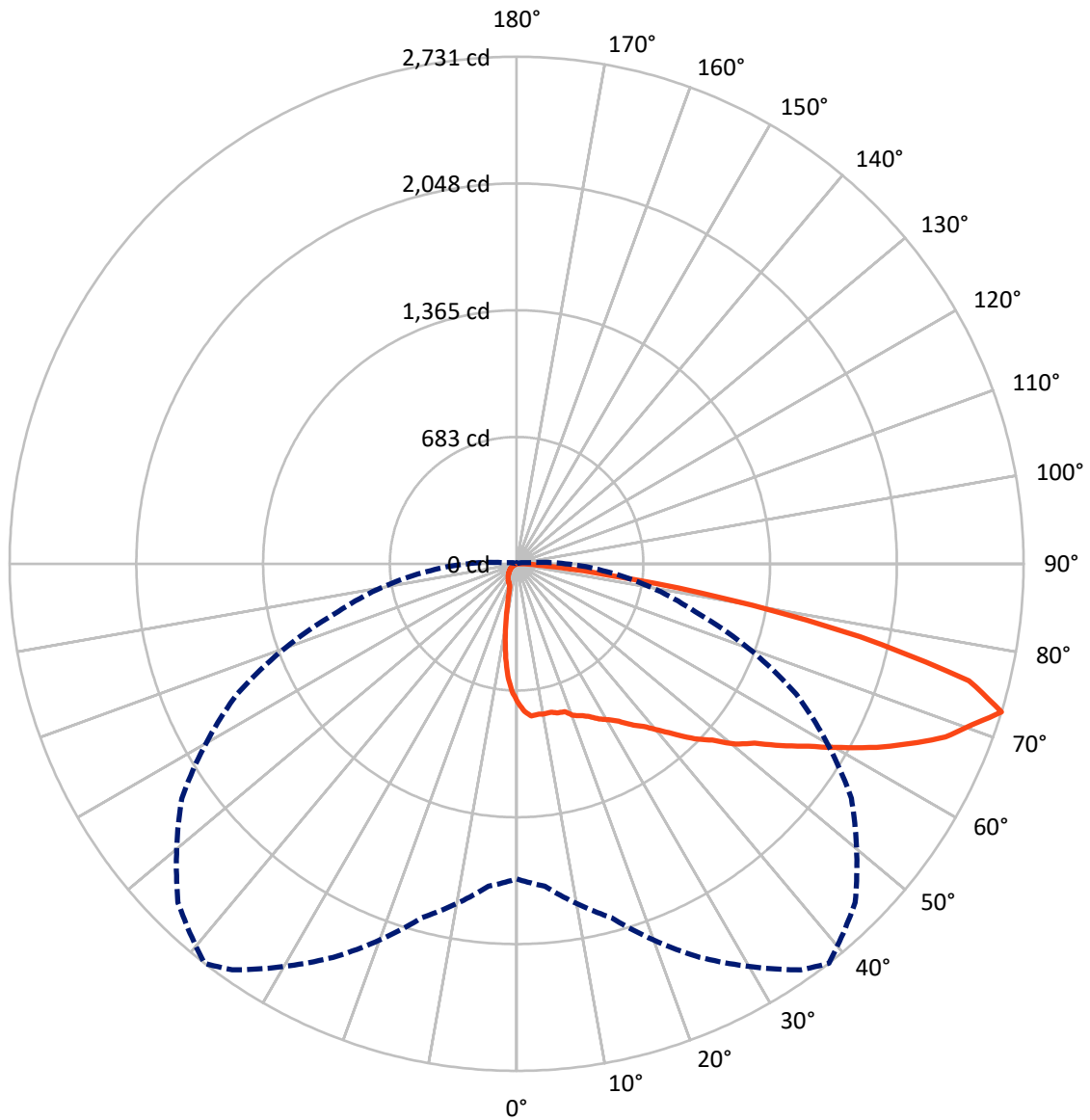
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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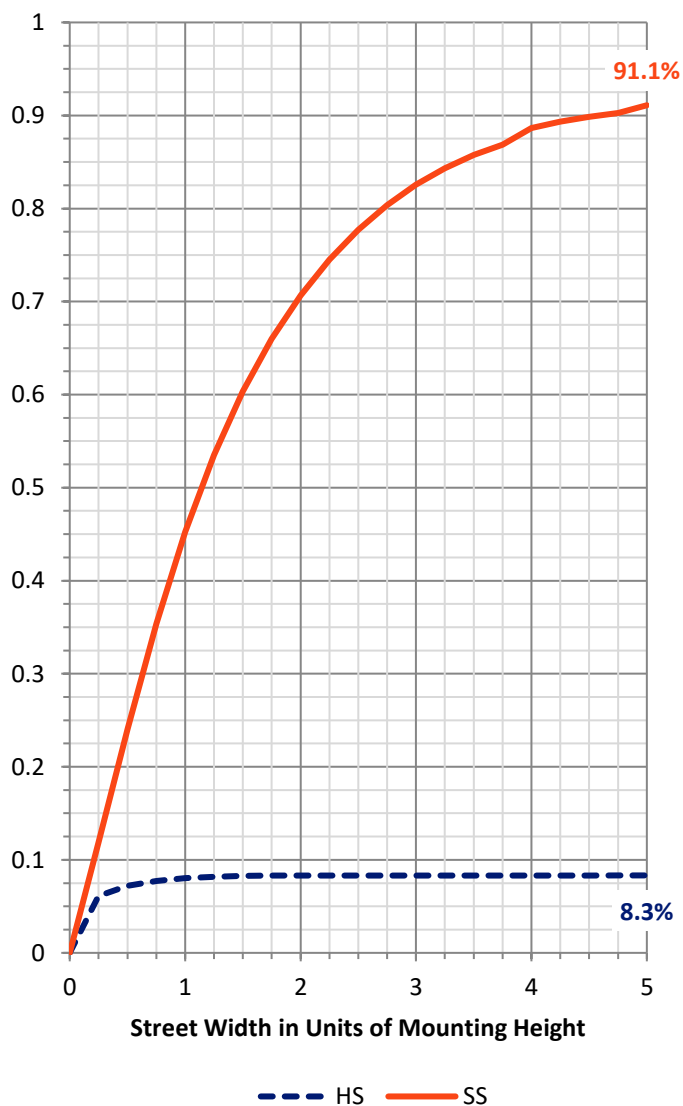
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	344.7	0.0	344.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3771.0	0.0	3771.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4115.6	0.0	4115.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	1.6
10°-20°	159.5	3.9
20°-30°	255.7	6.2
30°-40°	386.1	9.4
40°-50°	587.5	14.3
50°-60°	827.2	20.1
60°-70°	1010.4	24.6
70°-80°	733.7	17.8
80°-90°	90.4	2.2
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°	4115.6	100.0
0°-180°	4115.6	100.0

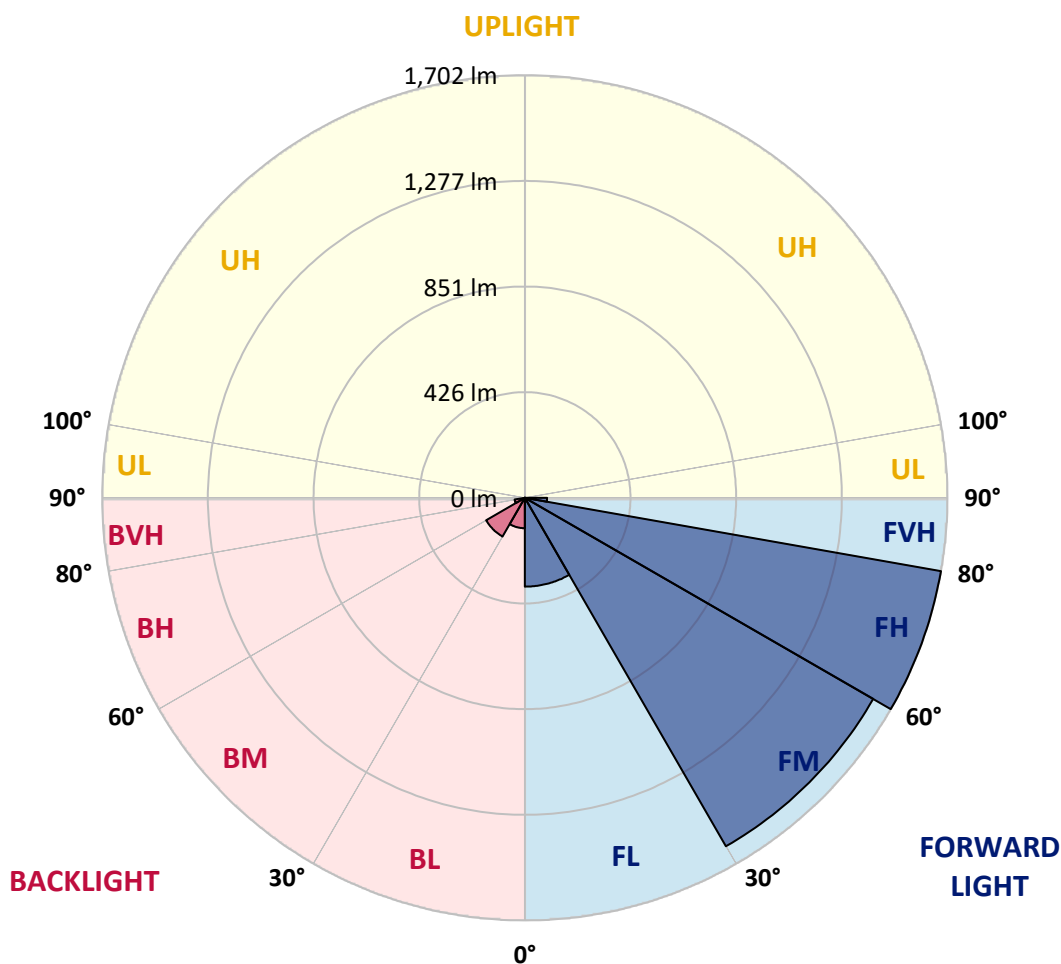


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.0	8.7			
FM (30°-60°)	1620.7	39.4			
FH (60°-80°)	1702.3	41.4			G1/1800
FVH (80°-90°)	89.9	2.2			G1/100
BL (0°-30°)	122.4	3.0	B1/500		
BM (30°-60°)	180.0	4.4	B0/220		
BH (60°-80°)	41.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	744.3	744.3	744.3	744.3	744.3	744.3	744.3	744.3	744.3	744.3	744.3
2.5°	817.6	817.6	825.4	817.6	814.7	796.4	797.4	787.7	778.1	764.5	752.0
5°	827.3	834.0	838.9	832.1	821.5	823.4	830.2	811.8	785.8	769.4	741.4
7.5°	823.4	837.9	834.0	830.2	823.4	818.6	808.9	801.2	788.7	773.2	740.4
10°	820.5	825.4	826.3	823.4	808.9	822.5	811.8	799.3	783.8	765.5	725.0
12.5°	809.9	809.9	818.6	811.8	813.8	820.5	815.7	812.8	796.4	781.0	745.2
15°	798.3	802.2	815.7	826.3	836.0	833.1	830.2	821.5	807.0	789.6	752.0
17.5°	801.2	803.2	824.4	843.7	838.9	836.9	852.4	834.0	819.6	800.3	757.8
20°	811.8	817.6	841.8	866.9	871.7	871.7	865.9	855.3	835.0	808.9	768.4
22.5°	822.5	824.4	864.0	895.8	900.7	888.1	892.9	862.0	842.7	828.3	779.0
25°	863.0	859.1	901.6	926.7	923.8	911.3	906.4	879.4	871.7	845.6	802.2
27.5°	918.0	901.6	943.1	958.6	943.1	947.0	933.5	904.5	888.1	872.7	812.8
30°	951.8	961.5	983.7	999.1	973.1	974.0	967.3	935.4	910.3	914.2	848.5
32.5°	1003.9	1010.7	1027.1	1033.9	1013.6	1011.7	1004.9	979.8	961.5	957.6	896.8
35°	1059.9	1072.5	1073.4	1075.4	1057.0	1064.8	1055.1	1019.4	1029.0	1035.8	954.7
37.5°	1115.0	1103.4	1122.7	1131.4	1111.1	1111.1	1114.0	1089.9	1107.2	1127.5	1036.8
40°	1136.2	1141.0	1174.8	1168.1	1192.2	1177.7	1188.3	1182.5	1197.0	1243.3	1152.6
42.5°	1158.4	1164.2	1209.6	1222.1	1251.1	1255.9	1271.3	1272.3	1314.8	1391.0	1263.6
45°	1200.9	1191.2	1253.0	1283.9	1331.2	1344.7	1363.0	1378.5	1445.1	1534.9	1390.1
47.5°	1239.5	1226.0	1296.4	1358.2	1416.1	1419.0	1469.2	1485.6	1564.8	1667.1	1515.6
50°	1293.5	1298.4	1328.3	1434.5	1493.4	1527.2	1561.9	1616.0	1703.8	1812.9	1606.3
52.5°	1349.5	1344.7	1394.9	1499.2	1591.8	1604.4	1682.6	1743.4	1839.0	1921.0	1646.9
55°	1418.1	1423.9	1443.2	1580.2	1698.0	1727.9	1815.8	1879.5	1983.8	1967.3	1660.4
57.5°	1486.6	1480.8	1524.3	1671.0	1831.2	1853.4	1970.2	2007.9	2078.4	1998.2	1626.6
60°	1554.2	1564.8	1583.1	1773.3	1977.0	2009.8	2102.5	2121.8	2137.2	2012.7	1600.5
62.5°	1631.4	1606.3	1663.3	1881.4	2108.3	2176.8	2250.2	2173.9	2160.4	1986.7	1540.7
65°	1670.0	1677.7	1752.1	2005.0	2283.0	2333.2	2342.9	2244.4	2174.9	1928.7	1484.7
67.5°	1729.9	1740.5	1835.1	2131.5	2462.6	2490.6	2455.8	2308.1	2162.3	1853.4	1282.9
70°	1737.6	1763.7	1946.1	2263.7	2575.5	2599.6	2572.6	2350.6	2061.0	1557.1	949.9
72.5°	1697.1	1743.4	1973.1	2339.0	2670.1	2730.9	2579.4	2201.0	1661.3	993.3	486.5
75°	1282.0	1320.6	1806.1	2227.0	2502.1	2516.6	2264.7	1679.7	946.0	338.8	124.5
77.5°	664.1	730.8	1205.7	1701.9	1906.5	1891.1	1576.4	989.5	325.3	88.8	50.2
80°	381.3	397.7	527.1	955.7	1198.9	1140.1	871.7	426.7	142.9	44.4	32.8
82.5°	188.2	211.4	283.8	427.6	599.5	493.3	327.2	255.8	80.1	24.1	29.0
85°	40.5	42.5	144.8	204.7	243.3	160.2	112.0	215.3	29.0	14.5	28.0
87.5°	29.0	28.0	40.5	91.7	67.6	41.5	66.6	112.9	6.8	6.8	5.8
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°	744.3	744.3	744.3	744.3	744.3	744.3	744.3	744.3	744.3	744.3	744.3
2.5°	744.3	735.6	725.9	707.6	702.8	699.9	683.5	682.5	679.6	672.8	669.9
5°	724.0	709.5	691.2	671.9	656.4	628.4	594.6	577.3	556.0	557.0	550.2
7.5°	721.1	694.1	668.0	627.5	578.2	526.1	474.0	440.2	416.1	401.6	404.5
10°	707.6	687.3	644.8	569.5	490.4	411.2	344.6	294.4	265.5	243.3	250.0
12.5°	713.4	673.8	614.0	513.6	400.6	303.1	220.1	171.8	150.6	142.9	144.8
15°	709.5	673.8	595.6	452.7	314.7	205.6	142.9	127.4	123.6	123.6	121.6
17.5°	721.1	681.5	564.7	392.9	225.9	137.1	122.6	119.7	116.8	116.8	116.8
20°	737.5	685.4	543.5	326.3	159.3	120.7	114.9	112.9	112.0	112.0	111.0
22.5°	738.5	681.5	503.9	252.9	122.6	113.9	109.1	108.1	108.1	106.2	106.2
25°	744.3	685.4	461.4	190.2	113.9	107.2	103.3	102.3	103.3	102.3	101.4
27.5°	758.8	692.1	419.0	139.0	107.2	101.4	98.5	97.5	97.5	97.5	95.6
30°	777.1	692.1	371.7	114.9	101.4	95.6	92.7	91.7	90.7	90.7	90.7
32.5°	815.7	714.3	313.7	102.3	93.6	88.8	85.9	85.9	84.9	84.9	84.0
35°	864.0	729.8	254.8	94.6	86.9	82.1	79.2	79.2	78.2	78.2	77.2
37.5°	923.8	768.4	195.0	88.8	80.1	75.3	72.4	72.4	72.4	71.4	71.4
40°	1008.8	808.0	144.8	81.1	73.4	68.5	66.6	65.6	64.7	64.7	62.7
42.5°	1099.5	868.8	108.1	75.3	67.6	63.7	60.8	57.9	57.9	55.0	55.0
45°	1198.0	921.9	87.8	68.5	61.8	57.0	54.1	52.1	49.2	47.3	47.3
47.5°	1294.5	954.7	77.2	60.8	56.0	52.1	49.2	45.4	41.5	40.5	39.6
50°	1372.7	964.4	68.5	55.0	51.2	47.3	43.4	38.6	34.8	32.8	31.9
52.5°	1372.7	911.3	61.8	49.2	46.3	42.5	37.6	31.9	27.0	25.1	24.1
55°	1372.7	827.3	55.0	45.4	41.5	38.6	31.9	26.1	21.2	18.3	17.4
57.5°	1352.4	725.9	49.2	40.5	36.7	32.8	27.0	20.3	15.4	12.5	12.5
60°	1296.4	619.7	42.5	35.7	31.9	27.0	21.2	14.5	9.7	6.8	6.8
62.5°	1225.0	493.3	36.7	29.9	26.1	22.2	16.4	9.7	3.9	1.9	1.9
65°	1100.5	363.9	31.9	25.1	20.3	16.4	10.6	3.9	0.0	0.0	0.0
67.5°	908.4	243.3	25.1	20.3	17.4	11.6	6.8	1.0	0.0	0.0	0.0
70°	639.0	138.0	19.3	14.5	12.5	7.7	1.9	0.0	0.0	0.0	0.0
72.5°	262.6	60.8	13.5	10.6	8.7	3.9	0.0	0.0	0.0	0.0	0.0
75°	71.4	27.0	8.7	5.8	4.8	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	41.5	18.3	3.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.8	8.7	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.8	4.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.0	0.0	0.0	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)