

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: P677151

Luminaire Tested: **CCW-SA-1C-750-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677151  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-750-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

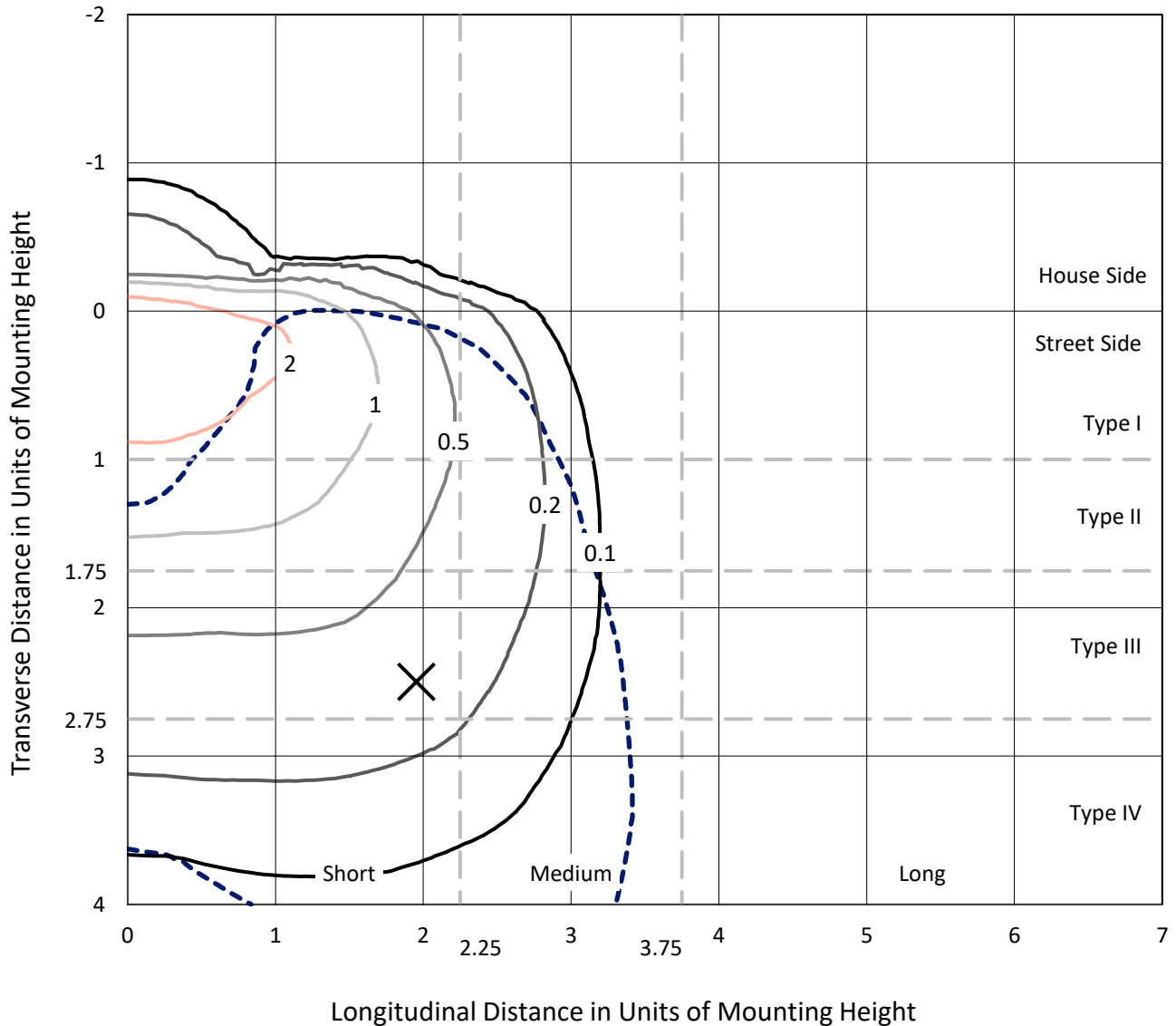
Lumens per Lamp: N/A  
Luminaire Lumens: 3820.2 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

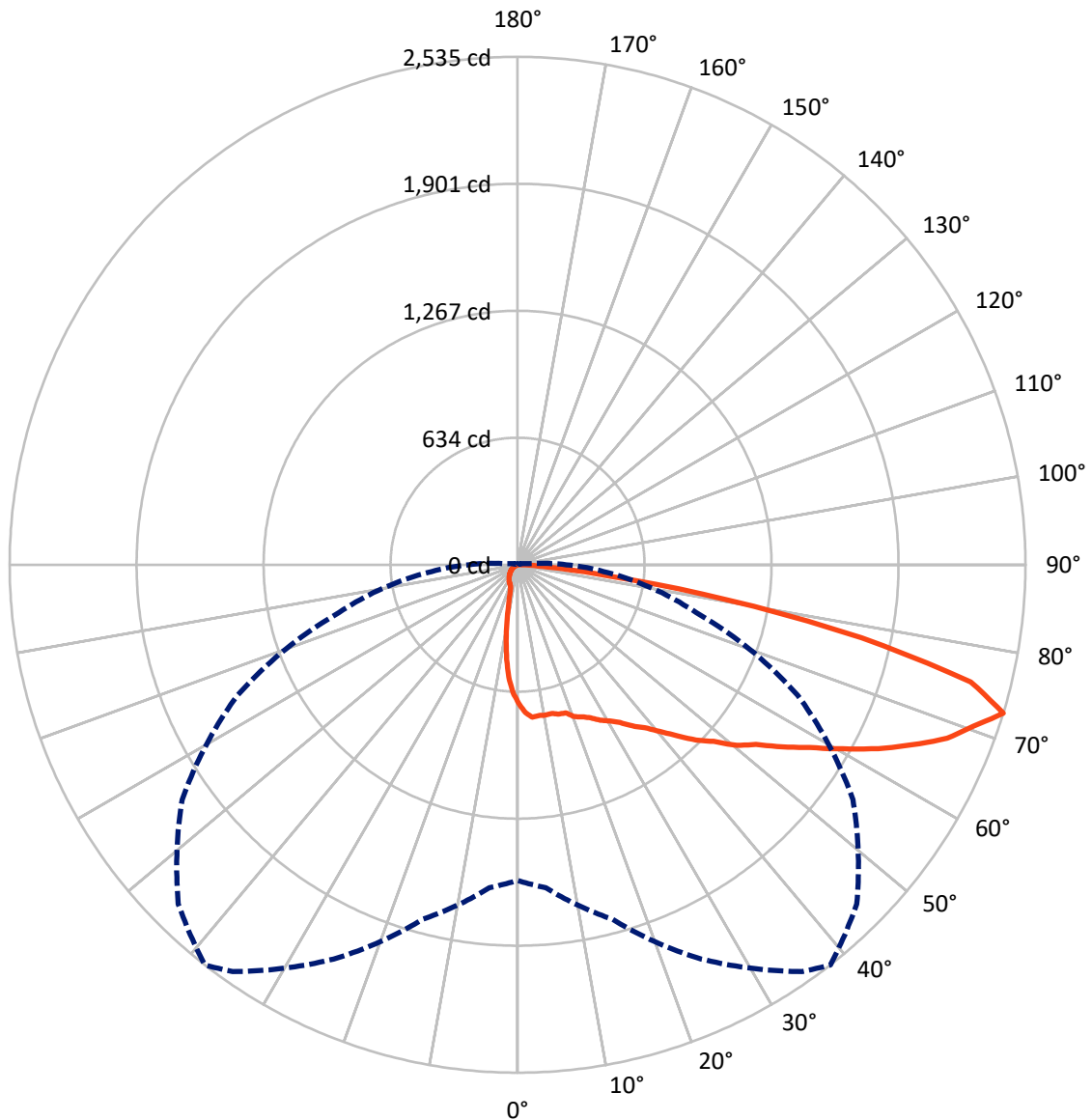
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 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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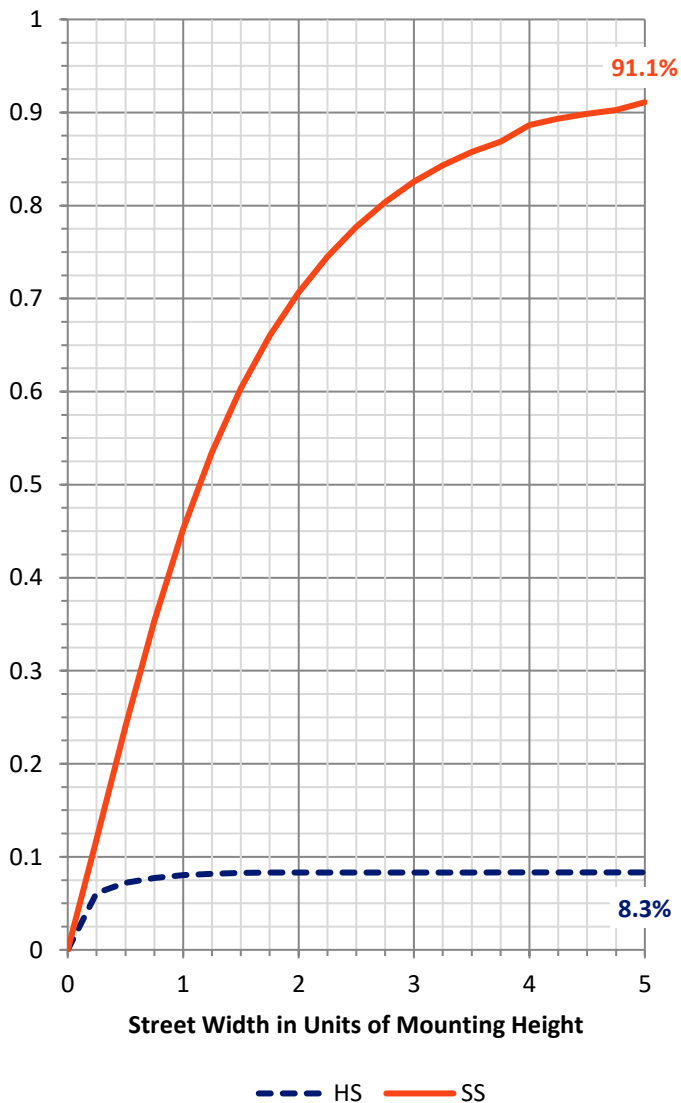
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	320.0	0.0	320.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3500.3	0.0	3500.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	3820.2	0.0	3820.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	1.6
10°-20°	148.1	3.9
20°-30°	237.3	6.2
30°-40°	358.3	9.4
40°-50°	545.4	14.3
50°-60°	767.8	20.1
60°-70°	937.9	24.6
70°-80°	681.0	17.8
80°-90°	83.9	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°	3820.2	100.0
0°-180°	3820.2	100.0

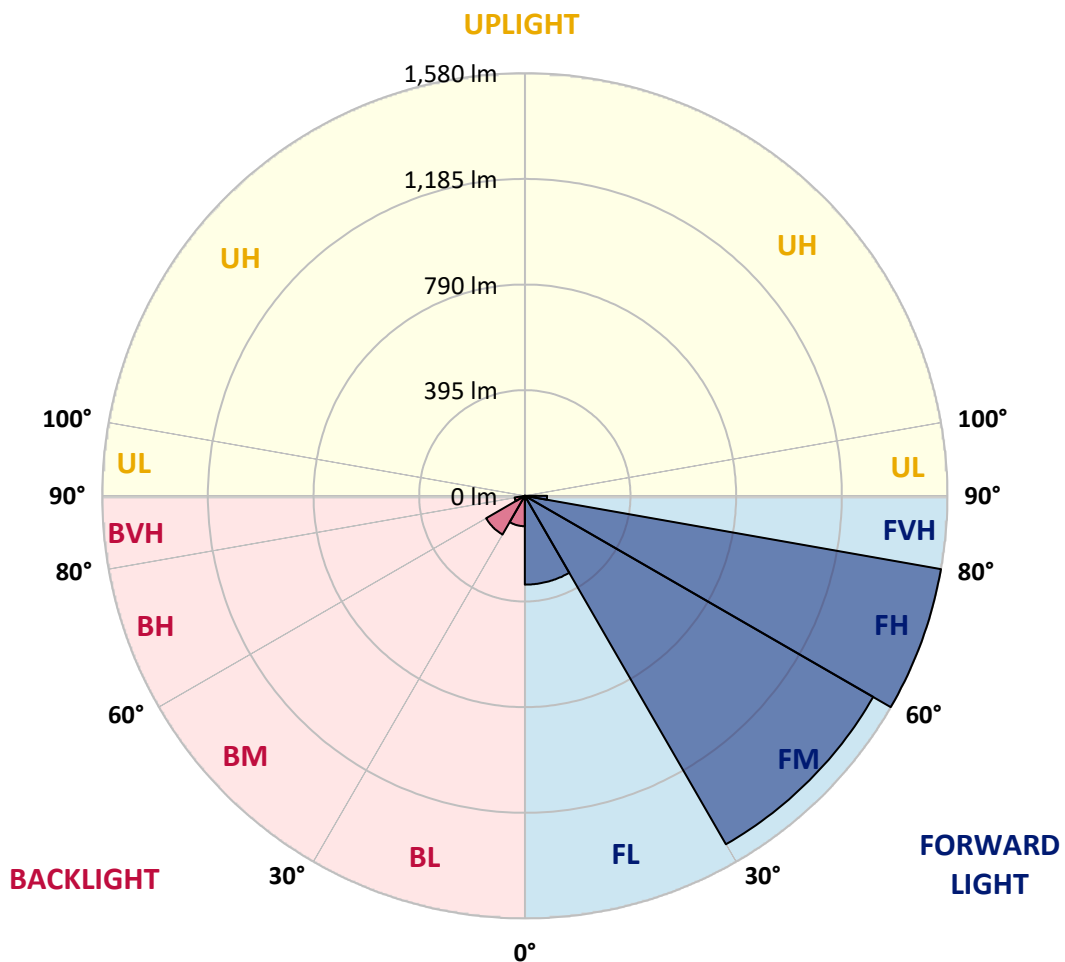


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.3	8.7			
FM (30°-60°)	1504.4	39.4			
FH (60°-80°)	1580.1	41.4			G1/1800
FVH (80°-90°)	83.4	2.2			G1/100
BL (0°-30°)	113.6	3.0	B1/500		
BM (30°-60°)	167.1	4.4	B0/220		
BH (60°-80°)	38.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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°	690.8	690.8	690.8	690.8	690.8	690.8	690.8	690.8	690.8	690.8	690.8
2.5°	758.9	758.9	766.1	758.9	756.3	739.2	740.1	731.2	722.2	709.7	698.0
5°	767.9	774.2	778.7	772.4	762.5	764.3	770.6	753.6	729.4	714.1	688.2
7.5°	764.3	777.8	774.2	770.6	764.3	759.8	750.9	743.7	732.1	717.7	687.3
10°	761.6	766.1	767.0	764.3	750.9	763.4	753.6	741.9	727.6	710.6	672.9
12.5°	751.8	751.8	759.8	753.6	755.4	761.6	757.1	754.5	739.2	724.9	691.7
15°	741.0	744.6	757.1	767.0	776.0	773.3	770.6	762.5	749.1	733.0	698.0
17.5°	743.7	745.5	765.2	783.1	778.7	776.9	791.2	774.2	760.7	742.8	703.4
20°	753.6	758.9	781.3	804.6	809.1	809.1	803.7	793.9	775.1	750.9	713.2
22.5°	763.4	765.2	802.0	831.5	836.0	824.4	828.8	800.2	782.2	768.8	723.1
25°	801.1	797.5	836.9	860.2	857.5	845.9	841.4	816.3	809.1	784.9	744.6
27.5°	852.1	836.9	875.4	889.8	875.4	879.0	866.5	839.6	824.4	810.0	754.5
30°	883.5	892.5	913.1	927.4	903.2	904.1	897.8	868.3	845.0	848.5	787.6
32.5°	931.9	938.1	953.4	959.7	940.8	939.0	932.8	909.5	892.5	888.9	832.4
35°	983.8	995.5	996.4	998.2	981.2	988.3	979.4	946.2	955.2	961.4	886.2
37.5°	1034.9	1024.2	1042.1	1050.2	1031.3	1031.3	1034.0	1011.6	1027.8	1046.6	962.3
40°	1054.6	1059.1	1090.5	1084.2	1106.6	1093.2	1103.0	1097.6	1111.1	1154.1	1069.9
42.5°	1075.2	1080.6	1122.7	1134.4	1161.3	1165.7	1180.1	1181.0	1220.4	1291.2	1172.9
45°	1114.7	1105.7	1163.1	1191.7	1235.6	1248.2	1265.2	1279.5	1341.4	1424.7	1290.3
47.5°	1150.5	1138.0	1203.4	1260.7	1314.5	1317.2	1363.8	1379.0	1452.5	1547.5	1406.8
50°	1200.7	1205.2	1232.9	1331.5	1386.2	1417.5	1449.8	1500.0	1581.5	1682.8	1491.0
52.5°	1252.7	1248.2	1294.8	1391.5	1477.6	1489.2	1561.8	1618.2	1706.9	1783.1	1528.6
55°	1316.3	1321.7	1339.6	1466.8	1576.1	1603.9	1685.4	1744.6	1841.4	1826.1	1541.2
57.5°	1379.9	1374.5	1414.8	1551.0	1699.8	1720.4	1828.8	1863.8	1929.2	1854.8	1509.8
60°	1442.6	1452.5	1469.5	1646.0	1835.1	1865.5	1951.6	1969.5	1983.8	1868.2	1485.6
62.5°	1514.3	1491.0	1543.9	1746.4	1956.9	2020.6	2088.7	2017.9	2005.3	1844.0	1430.1
65°	1550.1	1557.3	1626.3	1861.1	2119.1	2165.7	2174.7	2083.3	2018.8	1790.3	1378.1
67.5°	1605.7	1615.6	1703.4	1978.4	2285.8	2311.8	2279.5	2142.4	2007.1	1720.4	1190.8
70°	1612.9	1637.1	1806.4	2101.2	2390.6	2413.0	2387.9	2181.8	1913.0	1445.3	881.7
72.5°	1575.2	1618.2	1831.5	2171.1	2478.4	2534.9	2394.2	2043.0	1542.1	922.0	451.6
75°	1189.9	1225.8	1676.5	2067.2	2322.5	2336.0	2102.1	1559.1	878.1	314.5	115.6
77.5°	616.5	678.3	1119.1	1579.7	1769.7	1755.3	1463.2	918.4	302.0	82.4	46.6
80°	353.9	369.2	489.2	887.1	1112.9	1058.2	809.1	396.0	132.6	41.2	30.5
82.5°	174.7	196.2	263.4	396.9	556.4	457.9	303.8	237.4	74.4	22.4	26.9
85°	37.6	39.4	134.4	190.0	225.8	148.7	103.9	199.8	26.9	13.4	26.0
87.5°	26.9	26.0	37.6	85.1	62.7	38.5	61.8	104.8	6.3	6.3	5.4
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°	690.8	690.8	690.8	690.8	690.8	690.8	690.8	690.8	690.8	690.8	690.8
2.5°	690.8	682.8	673.8	656.8	652.3	649.6	634.4	633.5	630.8	624.5	621.8
5°	672.0	658.6	641.6	623.6	609.3	583.3	552.0	535.8	516.1	517.0	510.7
7.5°	669.3	644.2	620.1	582.4	536.7	488.3	440.0	408.6	386.2	372.8	375.4
10°	656.8	638.0	598.6	528.7	455.2	381.7	319.9	273.3	246.4	225.8	232.1
12.5°	662.2	625.4	569.9	476.7	371.9	281.4	204.3	159.5	139.8	132.6	134.4
15°	658.6	625.4	552.9	420.2	292.1	190.9	132.6	118.3	114.7	114.7	112.9
17.5°	669.3	632.6	524.2	364.7	209.7	127.2	113.8	111.1	108.4	108.4	108.4
20°	684.6	636.2	504.5	302.9	147.8	112.0	106.6	104.8	103.9	103.9	103.0
22.5°	685.5	632.6	467.7	234.8	113.8	105.7	101.3	100.4	100.4	98.6	98.6
25°	690.8	636.2	428.3	176.5	105.7	99.5	95.9	95.0	95.9	95.0	94.1
27.5°	704.3	642.5	388.9	129.0	99.5	94.1	91.4	90.5	90.5	90.5	88.7
30°	721.3	642.5	345.0	106.6	94.1	88.7	86.0	85.1	84.2	84.2	84.2
32.5°	757.1	663.1	291.2	95.0	86.9	82.4	79.7	79.7	78.9	78.9	78.0
35°	802.0	677.4	236.6	87.8	80.6	76.2	73.5	73.5	72.6	72.6	71.7
37.5°	857.5	713.2	181.0	82.4	74.4	69.9	67.2	67.2	67.2	66.3	66.3
40°	936.4	750.0	134.4	75.3	68.1	63.6	61.8	60.9	60.0	60.0	58.2
42.5°	1020.6	806.4	100.4	69.9	62.7	59.1	56.5	53.8	53.8	51.1	51.1
45°	1112.0	855.7	81.5	63.6	57.3	52.9	50.2	48.4	45.7	43.9	43.9
47.5°	1201.6	886.2	71.7	56.5	52.0	48.4	45.7	42.1	38.5	37.6	36.7
50°	1274.2	895.1	63.6	51.1	47.5	43.9	40.3	35.8	32.3	30.5	29.6
52.5°	1274.2	845.9	57.3	45.7	43.0	39.4	34.9	29.6	25.1	23.3	22.4
55°	1274.2	767.9	51.1	42.1	38.5	35.8	29.6	24.2	19.7	17.0	16.1
57.5°	1255.3	673.8	45.7	37.6	34.0	30.5	25.1	18.8	14.3	11.6	11.6
60°	1203.4	575.3	39.4	33.2	29.6	25.1	19.7	13.4	9.0	6.3	6.3
62.5°	1137.1	457.9	34.0	27.8	24.2	20.6	15.2	9.0	3.6	1.8	1.8
65°	1021.5	337.8	29.6	23.3	18.8	15.2	9.9	3.6	0.0	0.0	0.0
67.5°	843.2	225.8	23.3	18.8	16.1	10.8	6.3	0.9	0.0	0.0	0.0
70°	593.2	128.1	17.9	13.4	11.6	7.2	1.8	0.0	0.0	0.0	0.0
72.5°	243.7	56.5	12.5	9.9	8.1	3.6	0.0	0.0	0.0	0.0	0.0
75°	66.3	25.1	8.1	5.4	4.5	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	38.5	17.0	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.5	8.1	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.5	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	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)