

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: P676568

Luminaire Tested: **CCW-SA-2A-740-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676568  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-740-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

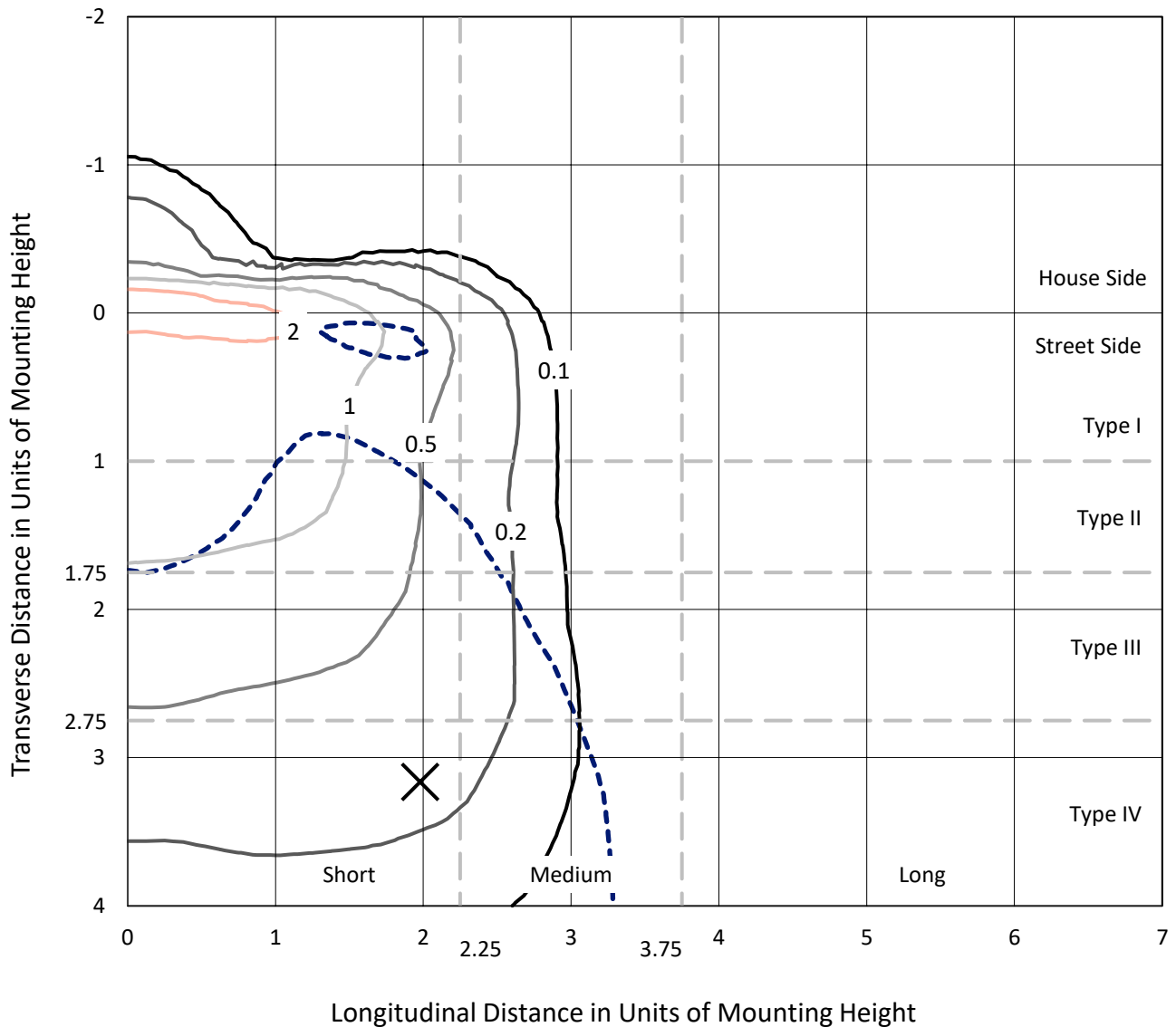
Lumens per Lamp: N/A  
Luminaire Lumens: 3928.9 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P676568  
 CATALOG NUMBER: CCW-SA-2A-740-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

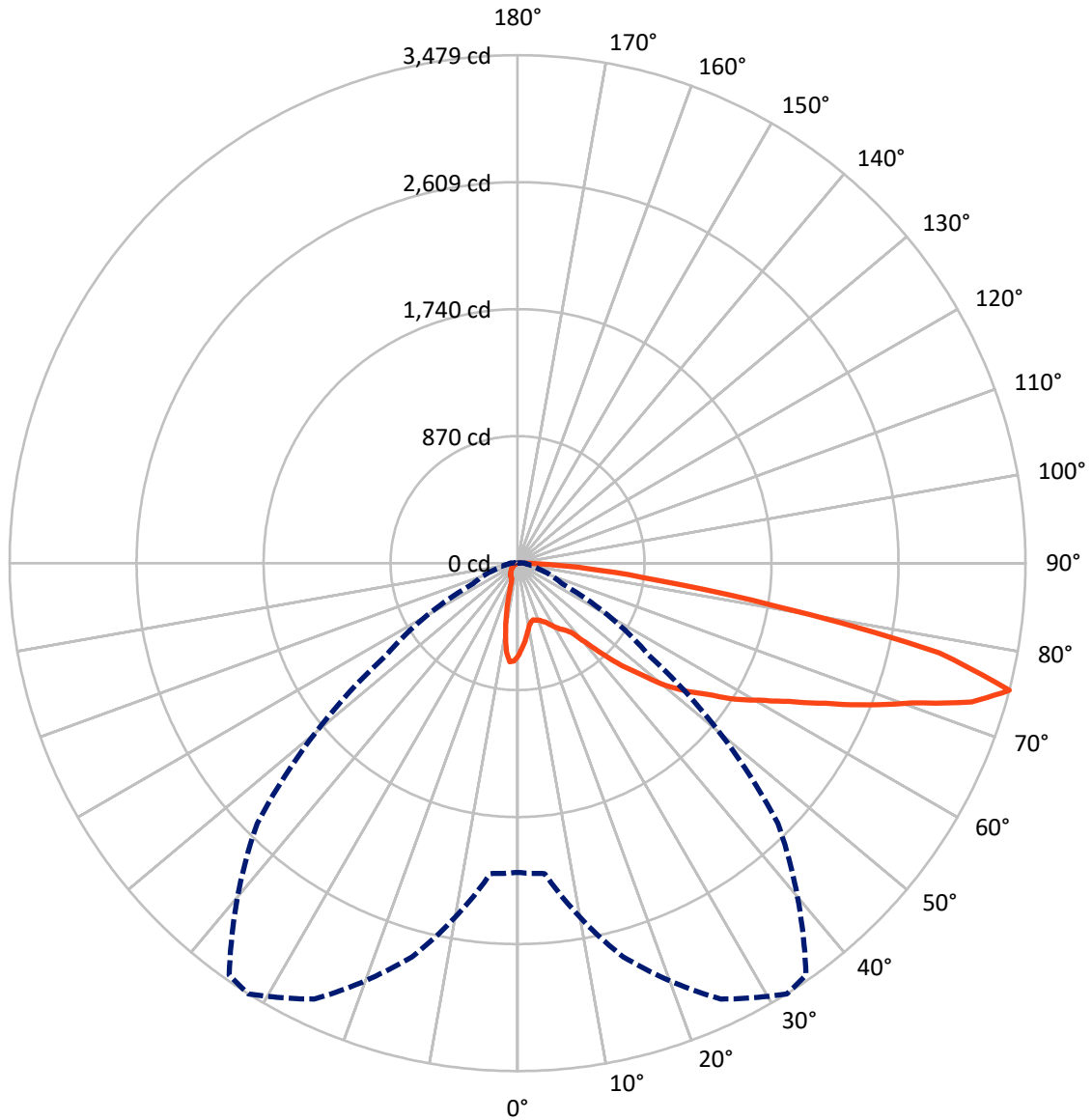
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P676568  
CATALOG NUMBER: CCW-SA-2A-740-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P676568  
 CATALOG NUMBER: CCW-SA-2A-740-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	424.4	0.0	424.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3504.4	0.0	3504.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3928.9	0.0	3928.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	1.4
10°-20°	126.6	3.2
20°-30°	189.5	4.8
30°-40°	290.9	7.4
40°-50°	508.7	12.9
50°-60°	795.2	20.2
60°-70°	1028.0	26.2
70°-80°	837.3	21.3
80°-90°	96.9	2.5
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°	3928.9	100.0
0°-180°	3928.9	100.0



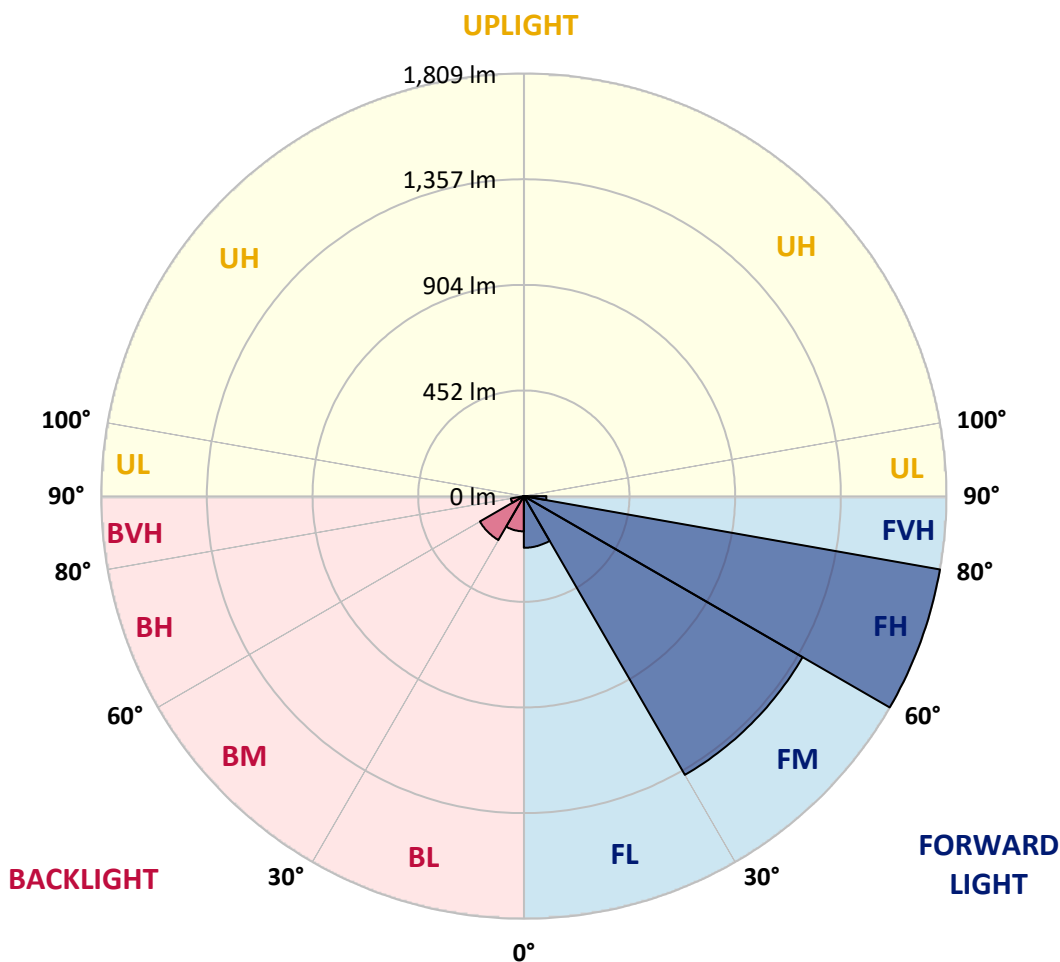
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 CATALOG NUMBER: CCW-SA-2A-740-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.1	5.6			
FM (30°-60°)	1377.6	35.1			
FH (60°-80°)	1808.9	46.0			G2/5000
FVH (80°-90°)	96.8	2.5			G1/100
BL (0°-30°)	150.8	3.8	B1/500		
BM (30°-60°)	217.1	5.5	B0/220		
BH (60°-80°)	56.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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-G2**

Type IV Short





REPORT NUMBER: P676568

CATALOG NUMBER: CCW-SA-2A-740-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4
2.5°	568.9	577.0	576.0	581.0	582.0	585.1	592.1	592.1	612.2	626.3	635.4
5°	517.6	512.5	514.6	520.6	535.7	534.7	551.8	560.9	585.1	605.2	626.3
7.5°	454.1	453.1	457.2	471.3	482.3	491.4	509.5	532.7	564.9	595.1	632.4
10°	413.9	411.9	419.9	423.9	437.0	443.1	471.3	507.5	545.8	589.1	632.4
12.5°	404.8	397.8	401.8	400.8	412.9	415.9	443.1	487.4	533.7	587.1	640.4
15°	409.8	404.8	400.8	400.8	403.8	405.8	435.0	474.3	526.6	590.1	658.6
17.5°	426.0	422.9	410.8	398.8	411.9	411.9	430.0	471.3	527.7	599.1	680.7
20°	445.1	442.1	420.9	406.8	415.9	426.0	445.1	478.3	530.7	606.2	715.0
22.5°	466.2	466.2	437.0	420.9	433.0	434.0	468.2	500.5	542.8	624.3	737.1
25°	492.4	490.4	462.2	444.1	448.1	459.2	490.4	524.6	564.9	649.5	778.4
27.5°	526.6	523.6	490.4	472.3	477.3	489.4	524.6	558.9	585.1	659.6	813.6
30°	554.8	551.8	524.6	497.4	508.5	519.6	560.9	591.1	610.2	678.7	853.9
32.5°	560.9	555.8	537.7	525.6	537.7	558.9	591.1	622.3	651.5	727.0	930.4
35°	630.4	612.2	564.9	545.8	563.9	571.0	624.3	679.7	707.9	765.3	1016.0
37.5°	763.3	746.2	683.7	630.4	605.2	613.2	682.7	751.2	778.4	836.8	1109.7
40°	926.4	898.2	831.8	760.3	708.9	698.8	744.2	844.9	871.0	926.4	1232.5
42.5°	1112.7	1085.5	982.8	898.2	845.9	832.8	839.8	953.6	975.8	1009.0	1313.1
45°	1246.6	1232.5	1116.7	1041.2	999.9	985.8	968.7	1072.4	1100.6	1111.7	1429.9
47.5°	1324.2	1314.1	1249.7	1198.3	1142.9	1127.8	1138.9	1237.6	1218.4	1227.5	1541.7
50°	1427.9	1401.7	1314.1	1330.2	1319.1	1315.1	1334.2	1377.5	1349.3	1323.2	1663.5
52.5°	1511.5	1465.1	1403.7	1443.0	1460.1	1475.2	1542.7	1574.9	1449.0	1408.8	1742.1
55°	1562.8	1518.5	1534.6	1570.9	1589.0	1658.5	1738.0	1713.9	1514.5	1477.2	1846.8
57.5°	1609.1	1612.2	1655.5	1666.5	1759.2	1771.3	1924.3	1845.8	1560.8	1539.7	1888.1
60°	1720.9	1709.8	1745.1	1816.6	1905.2	1972.7	2118.7	1934.4	1584.0	1571.9	1877.0
62.5°	1922.3	1853.8	1865.9	1956.6	2086.5	2160.0	2230.4	1974.7	1577.9	1576.9	1843.8
65°	2178.1	2099.5	2063.3	2147.9	2316.0	2419.8	2356.3	2020.0	1537.6	1565.8	1719.9
67.5°	2390.6	2391.6	2324.1	2371.4	2590.9	2613.1	2475.1	2010.9	1470.2	1478.2	1417.8
70°	2635.3	2668.5	2609.1	2757.1	2866.9	2881.0	2611.1	1936.4	1325.2	1114.7	814.6
72.5°	2697.7	2714.8	2900.1	3127.7	3251.5	3255.5	2745.0	1687.7	872.0	492.4	252.8
75°	2118.7	2134.8	2791.3	3294.8	3479.1	3443.9	2521.5	1095.6	339.4	144.0	60.4
77.5°	1182.2	1187.2	1733.0	2663.4	2951.4	2809.5	1766.2	427.0	136.9	82.6	28.2
80°	323.2	379.6	642.4	1313.1	1802.5	1769.3	840.8	139.0	88.6	64.4	13.1
82.5°	77.5	83.6	206.4	581.0	952.6	993.9	250.7	70.5	61.4	53.4	7.0
85°	28.2	31.2	63.4	283.0	489.4	449.1	75.5	35.2	45.3	41.3	3.0
87.5°	10.1	10.1	20.1	92.6	143.0	107.7	25.2	12.1	23.2	25.2	1.0
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: P676568

CATALOG NUMBER: CCW-SA-2A-740-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4
2.5°	636.4	636.4	650.5	662.6	666.6	671.7	666.6	677.7	676.7	671.7	673.7
5°	637.4	655.5	667.6	675.7	679.7	678.7	680.7	668.6	661.6	656.5	651.5
7.5°	642.4	659.6	681.7	679.7	668.6	645.5	627.3	595.1	563.9	562.9	557.9
10°	659.6	674.7	687.8	679.7	639.4	568.9	511.5	468.2	429.0	410.8	412.9
12.5°	671.7	699.8	693.8	652.5	568.9	476.3	391.7	328.3	293.0	259.8	259.8
15°	696.8	706.9	704.9	613.2	482.3	371.6	268.9	204.4	167.2	152.1	150.0
17.5°	721.0	732.1	697.8	553.8	396.7	249.7	163.1	126.9	121.8	119.8	120.8
20°	751.2	752.2	691.8	494.4	298.1	158.1	116.8	113.8	114.8	113.8	113.8
22.5°	783.4	790.5	670.6	410.8	198.4	114.8	108.8	109.8	109.8	109.8	112.8
25°	825.7	814.6	637.4	331.3	129.9	105.7	105.7	106.7	106.7	106.7	107.7
27.5°	853.9	838.8	595.1	238.7	101.7	99.7	101.7	101.7	103.7	103.7	103.7
30°	912.3	873.0	541.8	154.1	91.6	94.7	96.7	98.7	99.7	101.7	102.7
32.5°	957.6	903.3	475.3	102.7	83.6	85.6	90.6	94.7	98.7	97.7	97.7
35°	1040.2	952.6	413.9	81.6	76.5	76.5	81.6	88.6	94.7	96.7	96.7
37.5°	1134.9	992.9	328.3	74.5	70.5	70.5	73.5	81.6	89.6	93.6	91.6
40°	1213.4	1039.2	242.7	69.5	65.5	65.5	67.5	73.5	82.6	89.6	90.6
42.5°	1268.8	1073.4	164.1	64.4	61.4	60.4	63.4	66.5	73.5	83.6	85.6
45°	1319.1	1091.6	101.7	59.4	57.4	57.4	57.4	60.4	65.5	74.5	76.5
47.5°	1408.8	1111.7	73.5	55.4	52.4	53.4	54.4	55.4	59.4	61.4	62.4
50°	1484.3	1126.8	60.4	51.4	49.3	50.3	50.3	50.3	52.4	49.3	49.3
52.5°	1541.7	1111.7	51.4	47.3	45.3	46.3	45.3	45.3	43.3	39.3	39.3
55°	1584.0	1084.5	41.3	43.3	43.3	43.3	41.3	38.3	34.2	31.2	31.2
57.5°	1595.0	1038.2	32.2	36.3	39.3	39.3	35.2	31.2	26.2	23.2	22.2
60°	1577.9	937.5	24.2	26.2	30.2	31.2	28.2	23.2	18.1	15.1	15.1
62.5°	1516.5	857.9	19.1	17.1	22.2	23.2	20.1	15.1	10.1	7.0	6.0
65°	1399.7	735.1	14.1	12.1	15.1	16.1	13.1	7.0	3.0	1.0	0.0
67.5°	1122.8	553.8	9.1	8.1	10.1	10.1	6.0	2.0	0.0	0.0	0.0
70°	621.3	311.2	6.0	4.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
72.5°	179.2	88.6	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.3	21.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.1	8.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)