

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: P676524

Luminaire Tested: **CCW-SA-2A-722-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676524  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-722-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) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

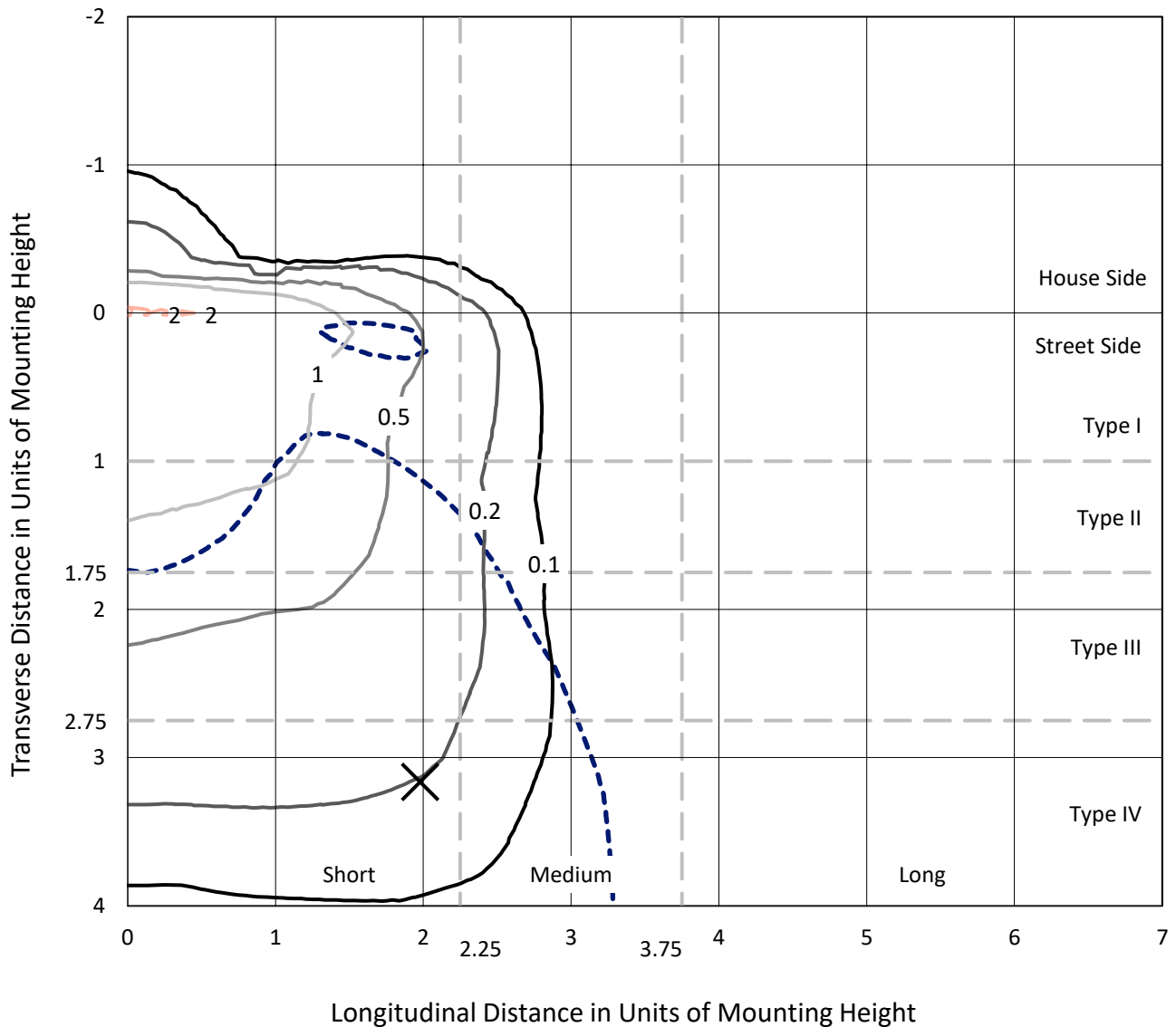
Lumens per Lamp: N/A  
Luminaire Lumens: 2894 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

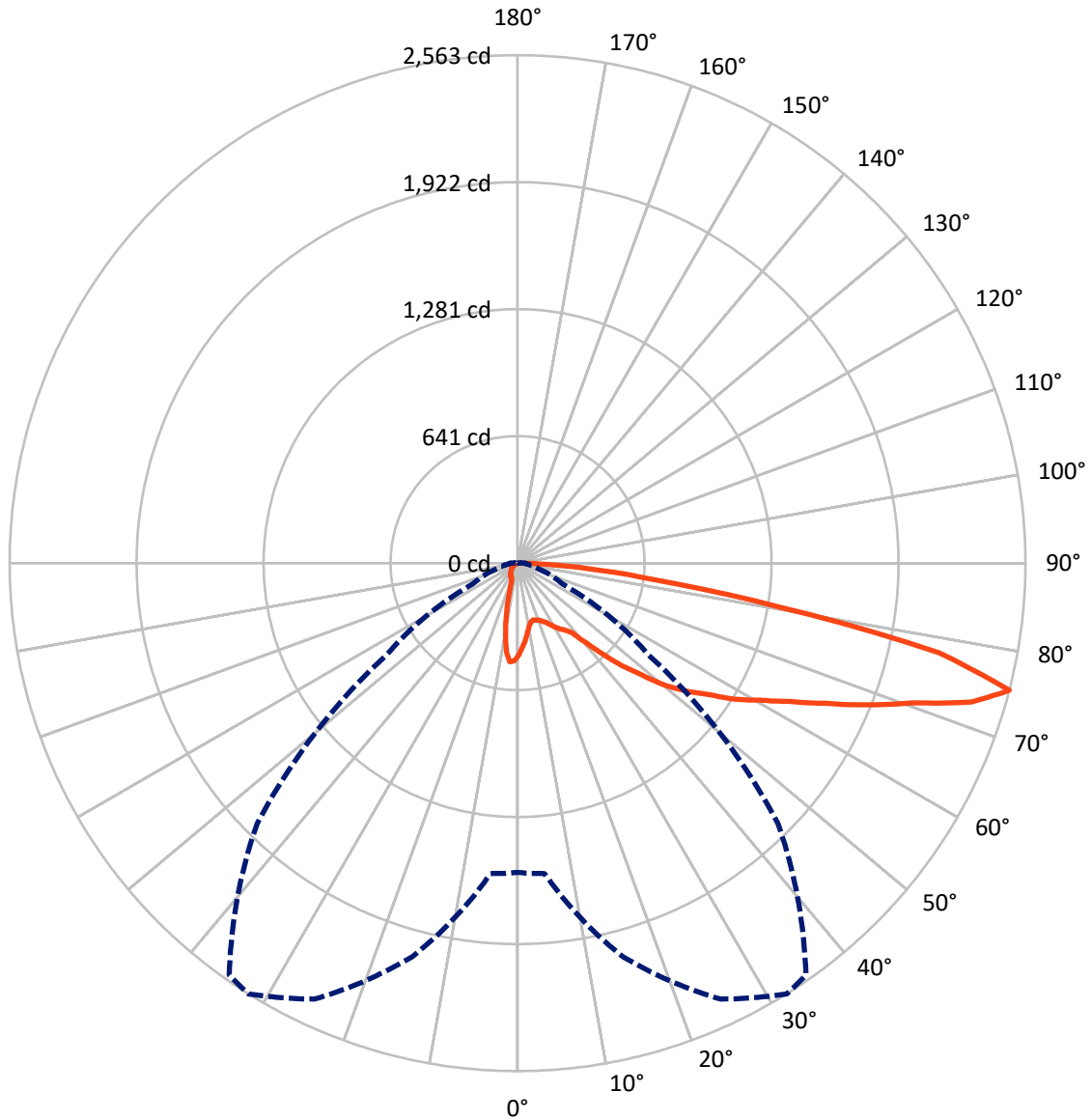
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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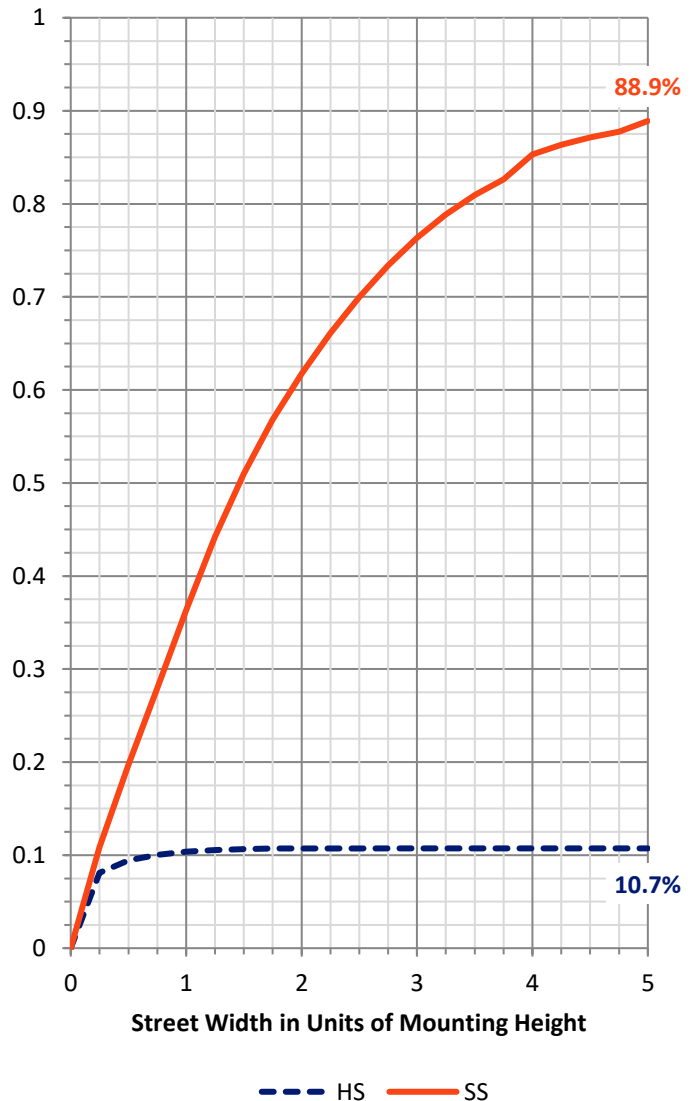
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	312.7	0.0	312.7
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2581.4	0.0	2581.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2894.0	0.0	2894.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.1	1.4
10°-20°	93.2	3.2
20°-30°	139.6	4.8
30°-40°	214.3	7.4
40°-50°	374.7	12.9
50°-60°	585.7	20.2
60°-70°	757.3	26.2
70°-80°	616.8	21.3
80°-90°	71.4	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°	2894.0	100.0
0°-180°	2894.0	100.0



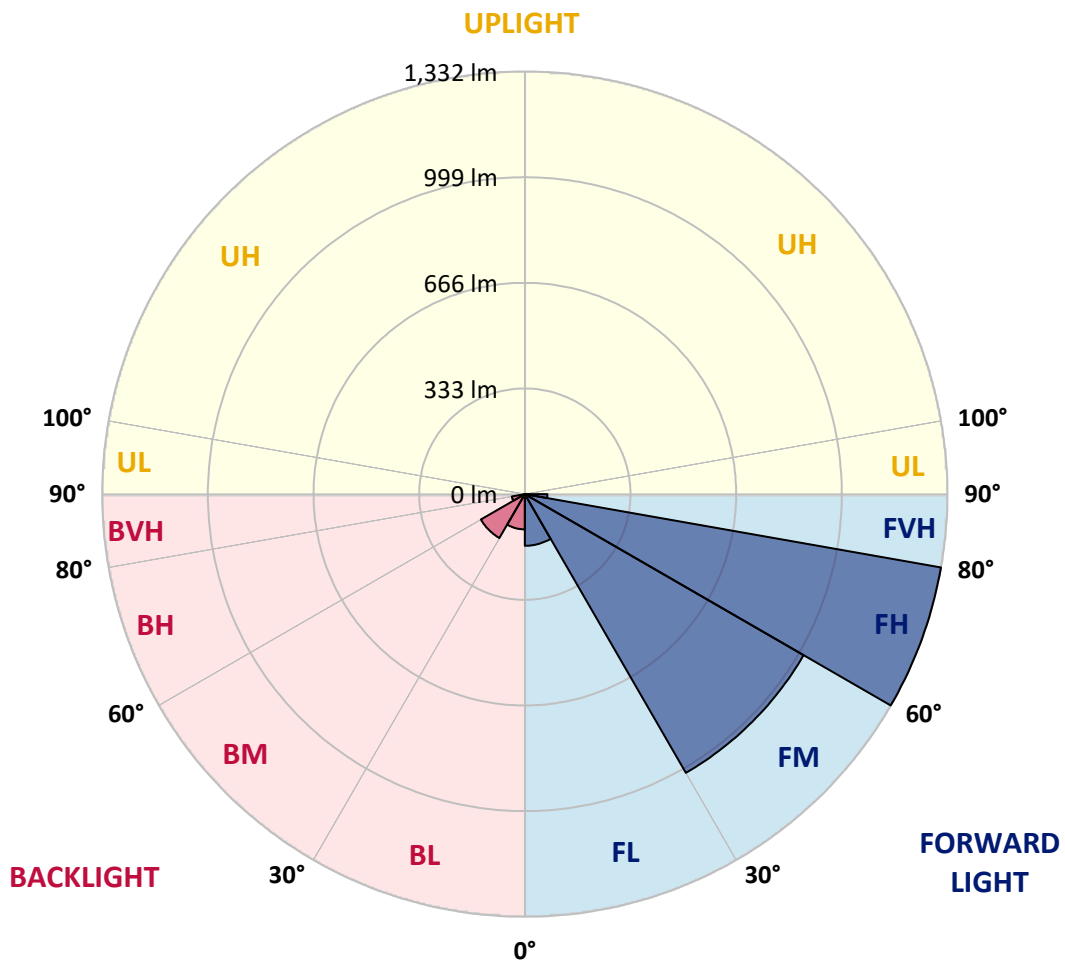
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.8	5.6			
FM (30°-60°)	1014.8	35.1			
FH (60°-80°)	1332.4	46.0			G1/1800
FVH (80°-90°)	71.3	2.5			G1/100
BL (0°-30°)	111.1	3.8	B1/500		
BM (30°-60°)	160.0	5.5	B0/220		
BH (60°-80°)	41.6	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	419.1	425.0	424.3	428.0	428.7	430.9	436.1	436.1	451.0	461.4	468.0
5°	381.3	377.5	379.0	383.5	394.6	393.9	406.5	413.1	430.9	445.8	461.4
7.5°	334.5	333.8	336.7	347.1	355.3	362.0	375.3	392.4	416.1	438.4	465.8
10°	304.9	303.4	309.3	312.3	321.9	326.4	347.1	373.8	402.0	433.9	465.8
12.5°	298.2	293.0	296.0	295.2	304.1	306.3	326.4	359.0	393.1	432.4	471.7
15°	301.9	298.2	295.2	295.2	297.4	298.9	320.4	349.4	387.9	434.7	485.1
17.5°	313.8	311.5	302.6	293.7	303.4	303.4	316.7	347.1	388.7	441.3	501.4
20°	327.8	325.6	310.0	299.7	306.3	313.8	327.8	352.3	390.9	446.5	526.6
22.5°	343.4	343.4	321.9	310.0	318.9	319.7	344.9	368.6	399.8	459.9	543.0
25°	362.7	361.2	340.5	327.1	330.1	338.2	361.2	386.4	416.1	478.4	573.4
27.5°	387.9	385.7	361.2	347.9	351.6	360.5	386.4	411.7	430.9	485.8	599.3
30°	408.7	406.5	386.4	366.4	374.6	382.7	413.1	435.4	449.5	499.9	629.0
32.5°	413.1	409.4	396.1	387.2	396.1	411.7	435.4	458.4	479.9	535.5	685.4
35°	464.3	451.0	416.1	402.0	415.4	420.6	459.9	500.7	521.4	563.7	748.4
37.5°	562.2	549.6	503.6	464.3	445.8	451.7	502.9	553.3	573.4	616.4	817.4
40°	682.4	661.6	612.7	560.0	522.2	514.8	548.1	622.3	641.6	682.4	907.9
42.5°	819.6	799.6	723.9	661.6	623.1	613.4	618.6	702.4	718.7	743.2	967.2
45°	918.3	907.9	822.6	767.0	736.5	726.2	713.6	790.0	810.7	818.9	1053.3
47.5°	975.4	968.0	920.5	882.7	841.9	830.7	838.9	911.6	897.5	904.2	1135.6
50°	1051.8	1032.5	968.0	979.8	971.7	968.7	982.8	1014.7	993.9	974.6	1225.4
52.5°	1113.3	1079.2	1034.0	1062.9	1075.5	1086.6	1136.3	1160.1	1067.4	1037.7	1283.2
55°	1151.2	1118.5	1130.4	1157.1	1170.5	1221.6	1280.2	1262.4	1115.6	1088.1	1360.3
57.5°	1185.3	1187.5	1219.4	1227.6	1295.8	1304.7	1417.5	1359.6	1149.7	1134.1	1390.8
60°	1267.6	1259.5	1285.4	1338.1	1403.4	1453.1	1560.6	1424.9	1166.8	1157.9	1382.6
62.5°	1416.0	1365.5	1374.4	1441.2	1536.9	1591.0	1642.9	1454.5	1162.3	1161.6	1358.1
65°	1604.4	1546.5	1519.8	1582.1	1706.0	1782.4	1735.7	1487.9	1132.6	1153.4	1266.9
67.5°	1760.9	1761.6	1711.9	1746.8	1908.5	1924.8	1823.2	1481.2	1082.9	1088.9	1044.4
70°	1941.1	1965.6	1921.8	2030.9	2111.7	2122.1	1923.3	1426.4	976.1	821.1	600.1
72.5°	1987.1	1999.7	2136.2	2303.8	2395.1	2398.0	2022.0	1243.2	642.3	362.7	186.2
75°	1560.6	1572.5	2056.1	2427.0	2562.7	2536.7	1857.3	807.0	250.0	106.1	44.5
77.5°	870.8	874.5	1276.5	1961.9	2174.0	2069.4	1301.0	314.5	100.9	60.8	20.8
80°	238.1	279.6	473.2	967.2	1327.7	1303.2	619.4	102.4	65.3	47.5	9.6
82.5°	57.1	61.6	152.1	428.0	701.7	732.1	184.7	51.9	45.2	39.3	5.2
85°	20.8	23.0	46.7	208.4	360.5	330.8	55.6	26.0	33.4	30.4	2.2
87.5°	7.4	7.4	14.8	68.2	105.3	79.4	18.5	8.9	17.1	18.5	0.7
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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	468.8	468.8	479.2	488.1	491.0	494.7	491.0	499.2	498.4	494.7	496.2
5°	469.5	482.9	491.8	497.7	500.7	499.9	501.4	492.5	487.3	483.6	479.9
7.5°	473.2	485.8	502.2	500.7	492.5	475.5	462.1	438.4	415.4	414.6	410.9
10°	485.8	497.0	506.6	500.7	471.0	419.1	376.8	344.9	316.0	302.6	304.1
12.5°	494.7	515.5	511.1	480.6	419.1	350.8	288.5	241.8	215.8	191.4	191.4
15°	513.3	520.7	519.2	451.7	355.3	273.7	198.0	150.6	123.1	112.0	110.5
17.5°	531.1	539.2	514.0	408.0	292.2	184.0	120.2	93.5	89.8	88.3	89.0
20°	553.3	554.1	509.6	364.2	219.6	116.5	86.0	83.8	84.6	83.8	83.8
22.5°	577.1	582.3	494.0	302.6	146.1	84.6	80.1	80.8	80.8	80.8	83.1
25°	608.2	600.1	469.5	244.0	95.7	77.9	77.9	78.6	78.6	78.6	79.4
27.5°	629.0	617.9	438.4	175.8	74.9	73.4	74.9	74.9	76.4	76.4	76.4
30°	672.0	643.1	399.1	113.5	67.5	69.7	71.2	72.7	73.4	74.9	75.7
32.5°	705.4	665.3	350.1	75.7	61.6	63.0	66.8	69.7	72.7	71.9	71.9
35°	766.2	701.7	304.9	60.1	56.4	56.4	60.1	65.3	69.7	71.2	71.2
37.5°	835.9	731.4	241.8	54.9	51.9	51.9	54.1	60.1	66.0	69.0	67.5
40°	893.8	765.5	178.8	51.2	48.2	48.2	49.7	54.1	60.8	66.0	66.8
42.5°	934.6	790.7	120.9	47.5	45.2	44.5	46.7	49.0	54.1	61.6	63.0
45°	971.7	804.0	74.9	43.8	42.3	42.3	42.3	44.5	48.2	54.9	56.4
47.5°	1037.7	818.9	54.1	40.8	38.6	39.3	40.1	40.8	43.8	45.2	46.0
50°	1093.3	830.0	44.5	37.8	36.3	37.1	37.1	37.1	38.6	36.3	36.3
52.5°	1135.6	818.9	37.8	34.9	33.4	34.1	33.4	33.4	31.9	28.9	28.9
55°	1166.8	798.9	30.4	31.9	31.9	31.9	30.4	28.2	25.2	23.0	23.0
57.5°	1174.9	764.7	23.7	26.7	28.9	28.9	26.0	23.0	19.3	17.1	16.3
60°	1162.3	690.6	17.8	19.3	22.3	23.0	20.8	17.1	13.4	11.1	11.1
62.5°	1117.1	632.0	14.1	12.6	16.3	17.1	14.8	11.1	7.4	5.2	4.5
65°	1031.0	541.5	10.4	8.9	11.1	11.9	9.6	5.2	2.2	0.7	0.0
67.5°	827.0	408.0	6.7	5.9	7.4	7.4	4.5	1.5	0.0	0.0	0.0
70°	457.7	229.2	4.5	3.0	3.7	2.2	0.7	0.0	0.0	0.0	0.0
72.5°	132.0	65.3	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.6	15.6	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.6	5.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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)