

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: P676557

Luminaire Tested: **CCW-SA-2A-735-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676557  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-735-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) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

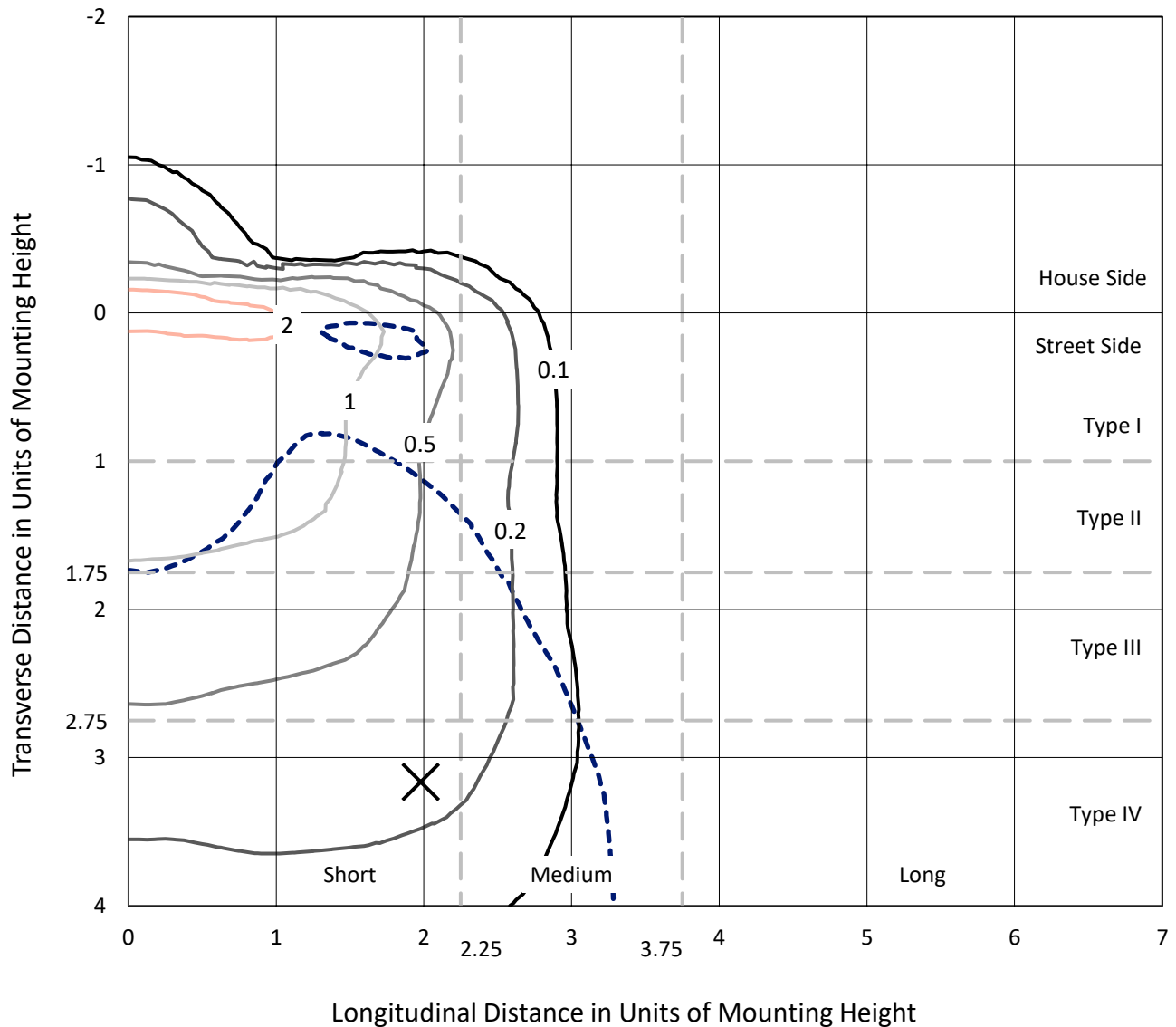
Lumens per Lamp: N/A  
Luminaire Lumens: 3875.1 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

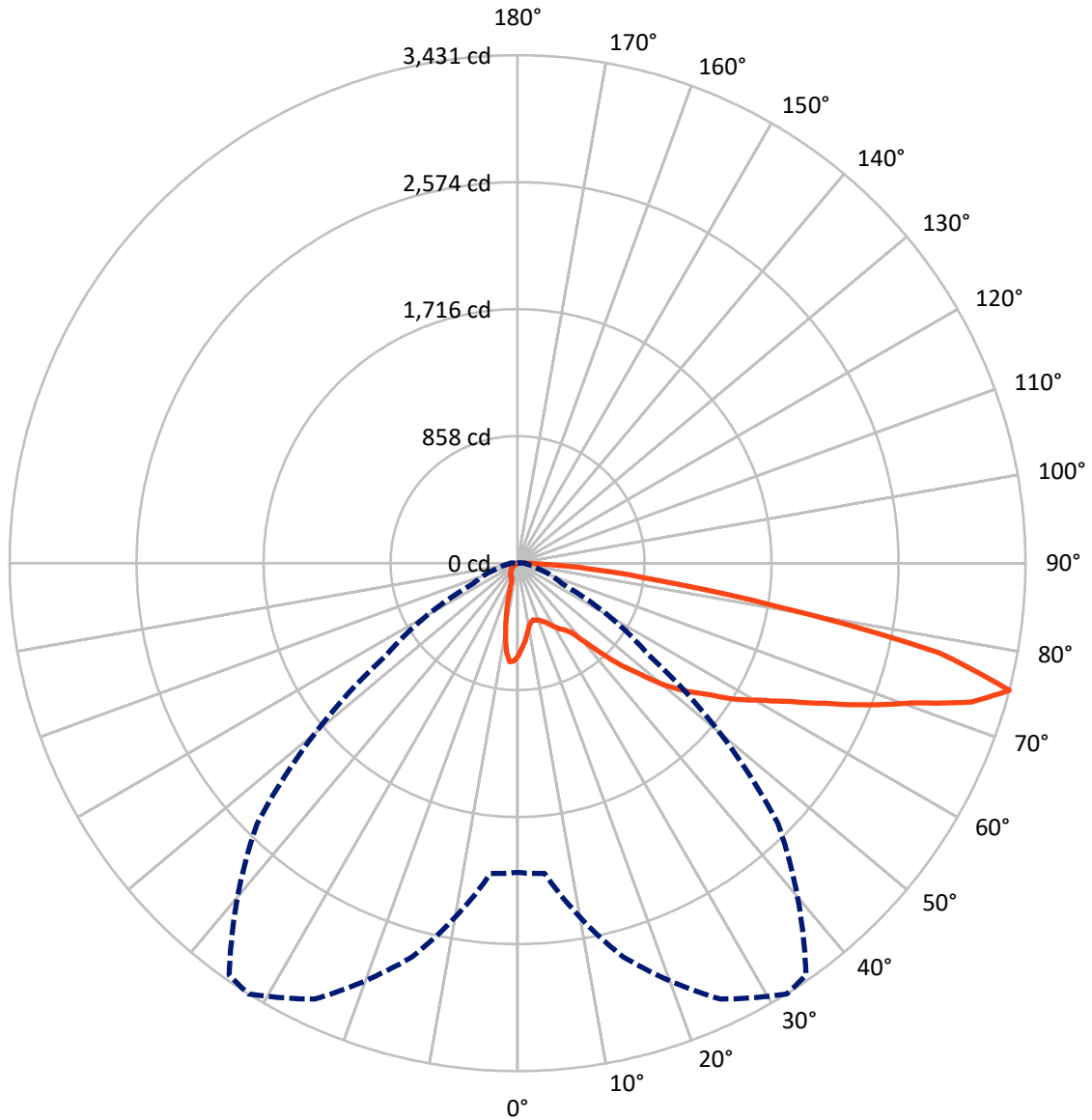
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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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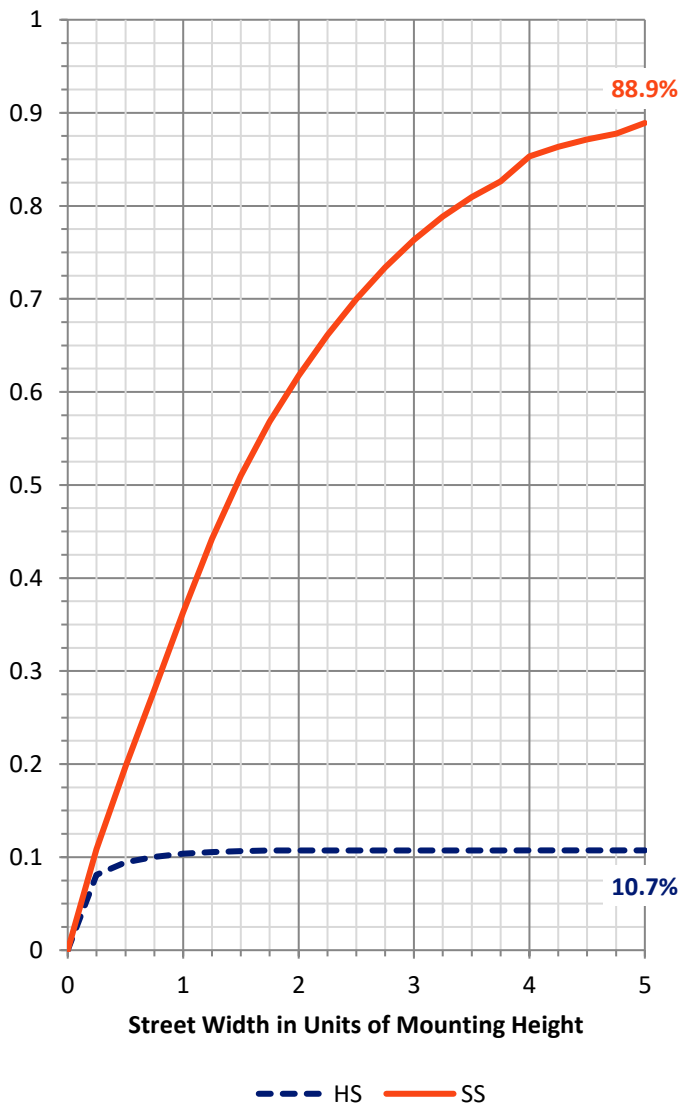
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	418.6	0.0	418.6
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3456.4	0.0	3456.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3875.1	0.0	3875.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.0	1.4
10°-20°	124.8	3.2
20°-30°	186.9	4.8
30°-40°	286.9	7.4
40°-50°	501.7	12.9
50°-60°	784.3	20.2
60°-70°	1014.0	26.2
70°-80°	825.8	21.3
80°-90°	95.6	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°	3875.1	100.0
0°-180°	3875.1	100.0



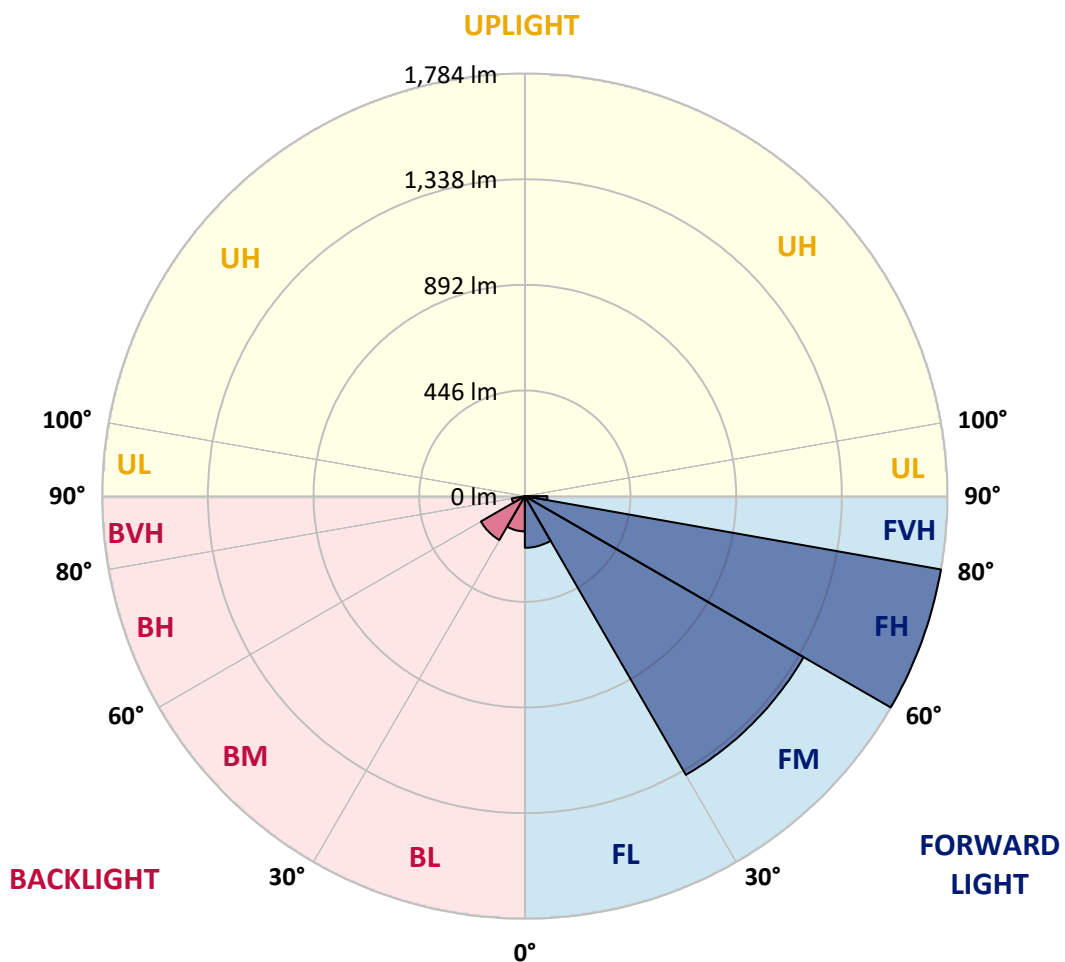
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.0	5.6			
FM (30°-60°)	1358.8	35.1			
FH (60°-80°)	1784.1	46.0			G1/1800
FVH (80°-90°)	95.5	2.5			G1/100
BL (0°-30°)	148.7	3.8	B1/500		
BM (30°-60°)	214.2	5.5	B0/220		
BH (60°-80°)	55.7	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°	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
2.5°	561.1	569.1	568.1	573.1	574.1	577.0	584.0	584.0	603.9	617.8	626.7
5°	510.5	505.5	507.5	513.5	528.4	527.4	544.3	553.2	577.0	596.9	617.8
7.5°	447.9	446.9	450.9	464.8	475.7	484.7	502.5	525.4	557.2	587.0	623.7
10°	408.2	406.2	414.2	418.1	431.0	437.0	464.8	500.6	538.3	581.0	623.7
12.5°	399.3	392.3	396.3	395.3	407.2	410.2	437.0	480.7	526.4	579.0	631.7
15°	404.2	399.3	395.3	395.3	398.3	400.3	429.1	467.8	519.4	582.0	649.5
17.5°	420.1	417.1	405.2	393.3	406.2	406.2	424.1	464.8	520.4	590.9	671.4
20°	439.0	436.0	415.1	401.2	410.2	420.1	439.0	471.8	523.4	597.9	705.2
22.5°	459.8	459.8	431.0	415.1	427.1	428.1	461.8	493.6	535.3	615.8	727.0
25°	485.7	483.7	455.9	438.0	442.0	452.9	483.7	517.4	557.2	640.6	767.7
27.5°	519.4	516.5	483.7	465.8	470.8	482.7	517.4	551.2	577.0	650.5	802.5
30°	547.2	544.3	517.4	490.6	501.6	512.5	553.2	583.0	601.9	669.4	842.2
32.5°	553.2	548.2	530.4	518.4	530.4	551.2	583.0	613.8	642.6	717.1	917.7
35°	621.7	603.9	557.2	538.3	556.2	563.1	615.8	670.4	698.2	754.8	1002.1
37.5°	752.8	735.9	674.4	621.7	596.9	604.8	673.4	740.9	767.7	825.3	1094.5
40°	913.7	885.9	820.4	749.9	699.2	689.3	734.0	833.3	859.1	913.7	1215.7
42.5°	1097.5	1070.6	969.3	885.9	834.3	821.4	828.3	940.5	962.4	995.2	1295.1
45°	1229.6	1215.7	1101.4	1026.9	986.2	972.3	955.4	1057.7	1085.5	1096.5	1410.3
47.5°	1306.0	1296.1	1232.5	1181.9	1127.3	1112.4	1123.3	1220.6	1201.7	1210.7	1520.6
50°	1408.3	1382.5	1296.1	1312.0	1301.1	1297.1	1316.0	1358.7	1330.9	1305.0	1640.7
52.5°	1490.8	1445.1	1384.5	1423.2	1440.1	1455.0	1521.6	1553.3	1429.2	1389.5	1718.2
55°	1541.4	1497.7	1513.6	1549.4	1567.2	1635.8	1714.2	1690.4	1493.7	1457.0	1821.5
57.5°	1587.1	1590.1	1632.8	1643.7	1735.1	1747.0	1898.0	1820.5	1539.4	1518.6	1862.2
60°	1697.3	1686.4	1721.2	1791.7	1879.1	1945.6	2089.6	1907.9	1562.3	1550.4	1851.3
62.5°	1896.0	1828.4	1840.4	1929.7	2057.9	2130.4	2199.9	1947.6	1556.3	1555.3	1818.5
65°	2148.2	2070.8	2035.0	2118.5	2284.3	2386.6	2324.0	1992.3	1516.6	1544.4	1696.3
67.5°	2357.8	2358.8	2292.3	2338.9	2555.4	2577.3	2441.2	1983.4	1450.0	1458.0	1398.4
70°	2599.1	2631.9	2573.3	2719.3	2827.6	2841.5	2575.3	1909.9	1307.0	1099.4	803.5
72.5°	2660.7	2677.6	2860.4	3084.8	3207.0	3210.9	2707.4	1664.6	860.1	485.7	249.3
75°	2089.6	2105.5	2753.1	3249.7	3431.4	3396.7	2486.9	1080.6	334.7	142.0	59.6
77.5°	1166.0	1171.0	1709.3	2627.0	2911.0	2771.0	1742.0	421.1	135.1	81.4	27.8
80°	318.8	374.4	633.6	1295.1	1777.8	1745.0	829.3	137.1	87.4	63.6	12.9
82.5°	76.5	82.4	203.6	573.1	939.5	980.3	247.3	69.5	60.6	52.6	7.0
85°	27.8	30.8	62.6	279.1	482.7	443.0	74.5	34.8	44.7	40.7	3.0
87.5°	9.9	9.9	19.9	91.4	141.0	106.3	24.8	11.9	22.8	24.8	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
2.5°	627.7	627.7	641.6	653.5	657.5	662.5	657.5	668.4	667.4	662.5	664.4
5°	628.7	646.6	658.5	666.4	670.4	669.4	671.4	659.5	652.5	647.6	642.6
7.5°	633.6	650.5	672.4	670.4	659.5	636.6	618.8	587.0	556.2	555.2	550.2
10°	650.5	665.4	678.3	670.4	630.7	561.1	504.5	461.8	423.1	405.2	407.2
12.5°	662.5	690.3	684.3	643.6	561.1	469.8	386.3	323.8	289.0	256.2	256.2
15°	687.3	697.2	695.2	604.8	475.7	366.5	265.2	201.6	164.9	150.0	148.0
17.5°	711.1	722.0	688.3	546.2	391.3	246.3	160.9	125.1	120.2	118.2	119.2
20°	740.9	741.9	682.3	487.7	294.0	155.9	115.2	112.2	113.2	112.2	112.2
22.5°	772.7	779.6	661.5	405.2	195.7	113.2	107.3	108.3	108.3	108.3	111.2
25°	814.4	803.5	628.7	326.8	128.1	104.3	104.3	105.3	105.3	105.3	106.3
27.5°	842.2	827.3	587.0	235.4	100.3	98.3	100.3	100.3	102.3	102.3	102.3
30°	899.8	861.1	534.3	152.0	90.4	93.4	95.3	97.3	98.3	100.3	101.3
32.5°	944.5	890.9	468.8	101.3	82.4	84.4	89.4	93.4	97.3	96.3	96.3
35°	1026.0	939.5	408.2	80.4	75.5	75.5	80.4	87.4	93.4	95.3	95.3
37.5°	1119.3	979.3	323.8	73.5	69.5	69.5	72.5	80.4	88.4	92.4	90.4
40°	1196.8	1025.0	239.4	68.5	64.6	64.6	66.5	72.5	81.4	88.4	89.4
42.5°	1251.4	1058.7	161.9	63.6	60.6	59.6	62.6	65.5	72.5	82.4	84.4
45°	1301.1	1076.6	100.3	58.6	56.6	56.6	56.6	59.6	64.6	73.5	75.5
47.5°	1389.5	1096.5	72.5	54.6	51.6	52.6	53.6	54.6	58.6	60.6	61.6
50°	1463.9	1111.4	59.6	50.7	48.7	49.7	49.7	49.7	51.6	48.7	48.7
52.5°	1520.6	1096.5	50.7	46.7	44.7	45.7	44.7	44.7	42.7	38.7	38.7
55°	1562.3	1069.7	40.7	42.7	42.7	42.7	40.7	37.7	33.8	30.8	30.8
57.5°	1573.2	1024.0	31.8	35.8	38.7	38.7	34.8	30.8	25.8	22.8	21.8
60°	1556.3	924.6	23.8	25.8	29.8	30.8	27.8	22.8	17.9	14.9	14.9
62.5°	1495.7	846.2	18.9	16.9	21.8	22.8	19.9	14.9	9.9	7.0	6.0
65°	1380.5	725.0	13.9	11.9	14.9	15.9	12.9	7.0	3.0	1.0	0.0
67.5°	1107.4	546.2	8.9	7.9	9.9	9.9	6.0	2.0	0.0	0.0	0.0
70°	612.8	306.9	6.0	4.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
72.5°	176.8	87.4	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	47.7	20.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	20.9	7.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.9	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)