

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: P674905

Luminaire Tested: **CCW-SA-1F-840-U-T2**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674905  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-840-U-T2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T2 distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

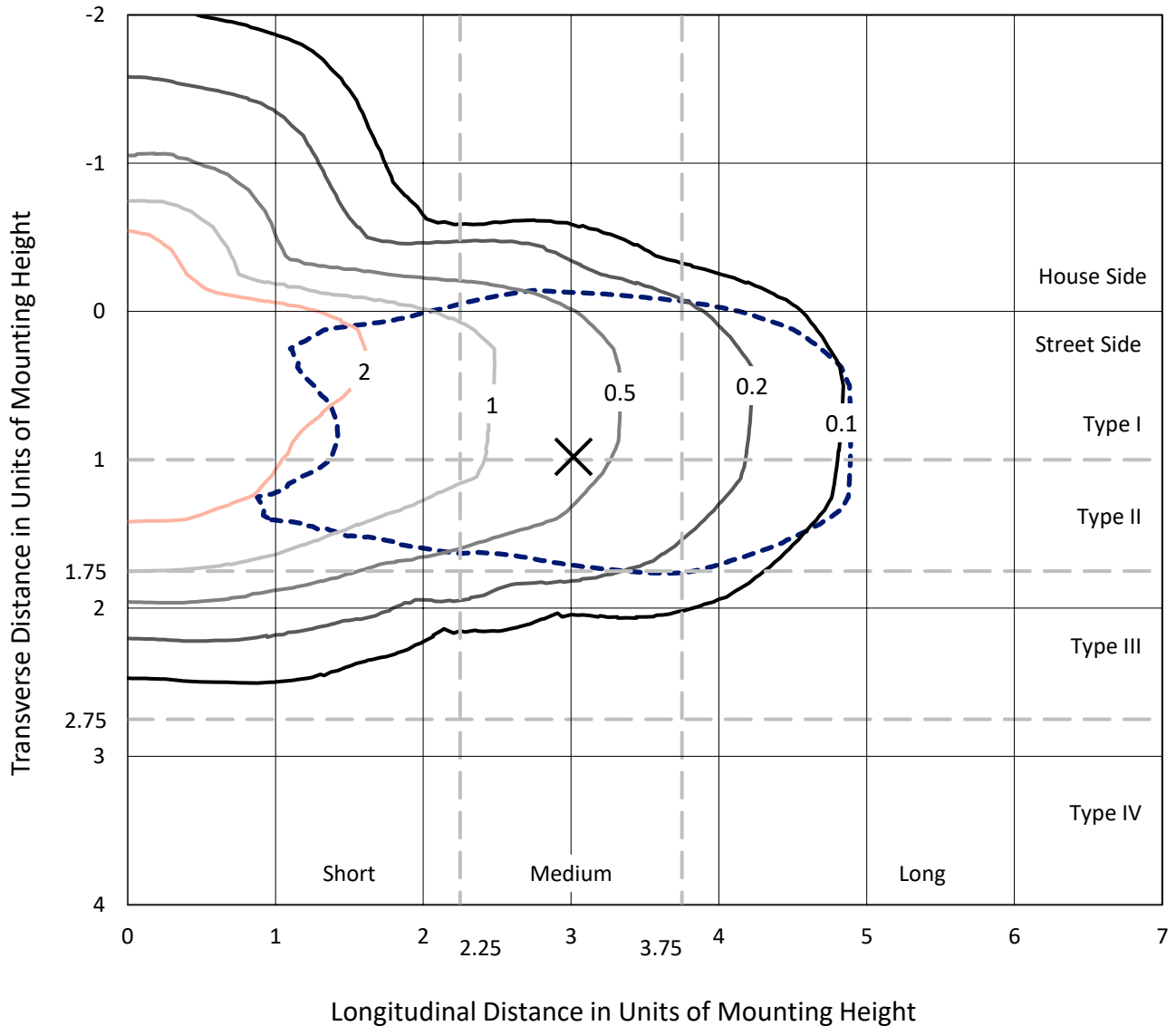
Lumens per Lamp: N/A  
Luminaire Lumens: 6376.6 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

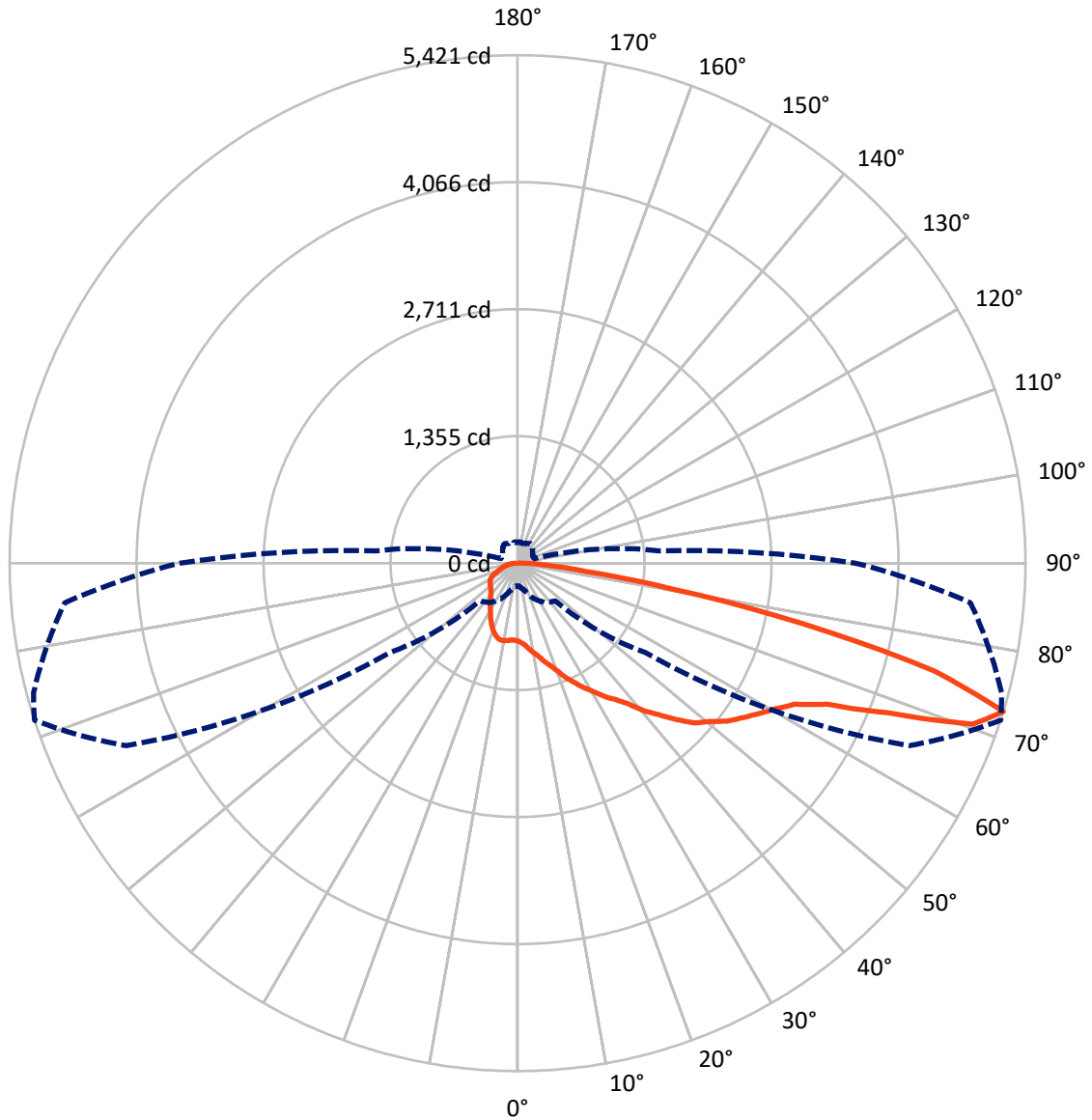
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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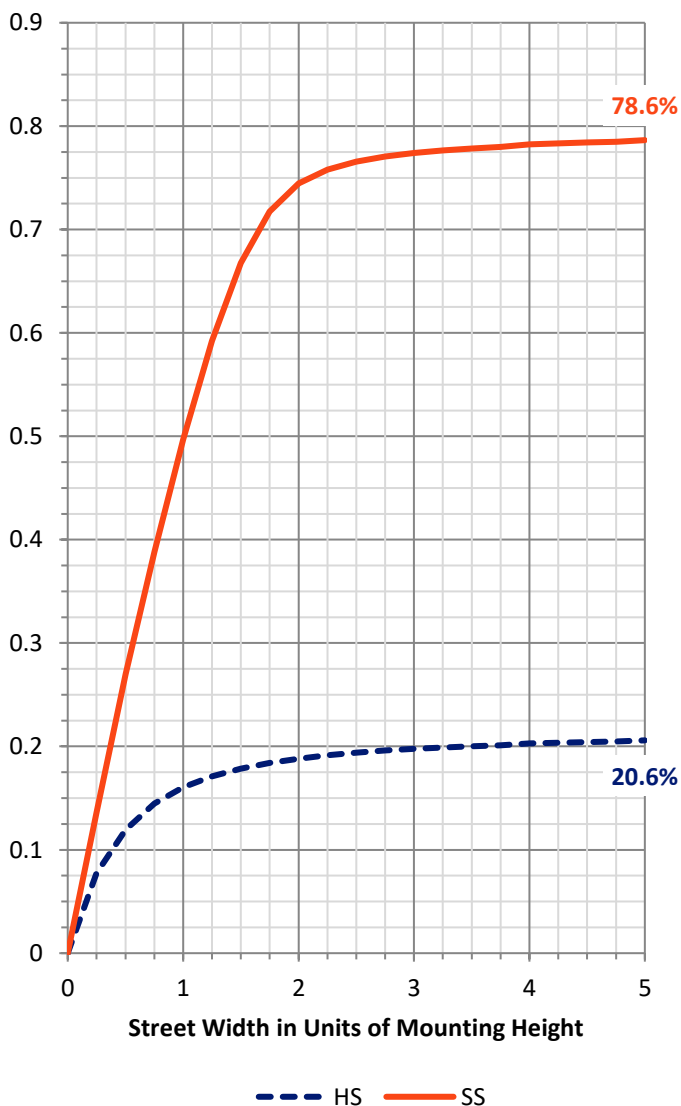
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1342.0	0.0	1342.0
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	5034.6	0.0	5034.6
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	6376.6	0.0	6376.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	1.3
10°-20°	255.9	4.0
20°-30°	442.8	6.9
30°-40°	654.0	10.3
40°-50°	972.6	15.3
50°-60°	1333.4	20.9
60°-70°	1446.3	22.7
70°-80°	1019.7	16.0
80°-90°	169.4	2.7
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°	6376.6	100.0
0°-180°	6376.6	100.0

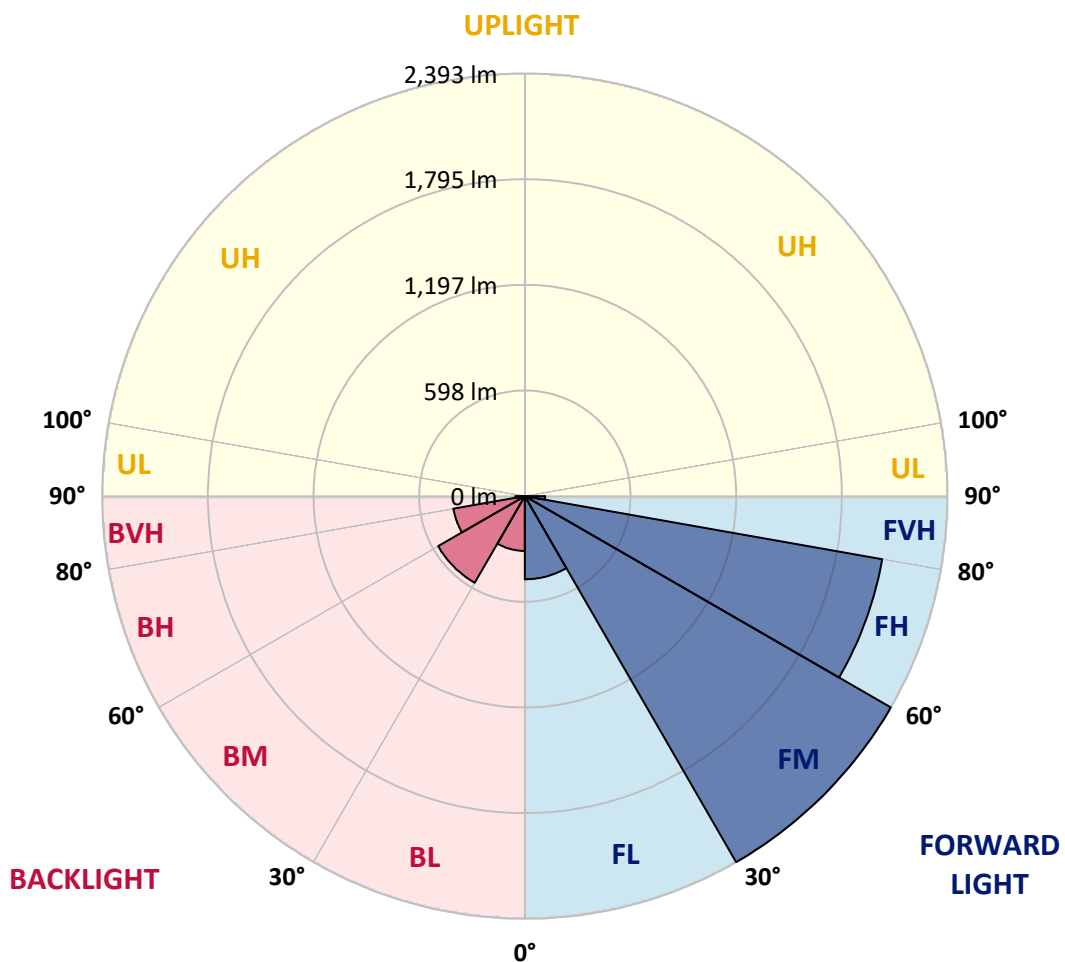


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.9	7.4			
FM (30°-60°)	2393.3	37.5			
FH (60°-80°)	2055.0	32.2			G2/5000
FVH (80°-90°)	115.5	1.8			G2/225
BL (0°-30°)	310.2	4.9	B1/500		
BM (30°-60°)	566.8	8.9	B1/1000		
BH (60°-80°)	411.1	6.4	B1/500		G1/500
BVH (80°-90°)	53.9	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0
2.5°	898.8	898.8	891.8	889.4	889.4	870.6	873.0	861.2	851.8	851.8	842.4
5°	945.9	941.2	941.2	941.2	929.4	922.4	920.0	898.8	882.4	884.7	856.5
7.5°	957.7	960.0	962.4	974.1	967.1	971.8	967.1	943.5	931.8	920.0	894.1
10°	964.7	969.4	969.4	985.9	985.9	997.7	1004.7	995.3	974.1	962.4	920.0
12.5°	981.2	974.1	983.5	995.3	1007.1	1028.3	1049.4	1040.0	1025.9	1011.8	964.7
15°	981.2	983.5	990.6	1009.4	1028.3	1049.4	1087.1	1101.2	1094.1	1068.3	1018.8
17.5°	953.0	945.9	978.8	1014.1	1049.4	1075.3	1124.7	1157.7	1153.0	1143.6	1068.3
20°	955.3	962.4	974.1	1004.7	1061.2	1108.3	1169.4	1223.6	1235.3	1230.6	1134.1
22.5°	997.7	1000.0	1011.8	1025.9	1070.6	1131.8	1223.6	1310.6	1331.8	1320.0	1207.1
25°	1040.0	1058.8	1058.8	1068.3	1084.7	1148.3	1258.8	1381.2	1411.8	1414.1	1282.4
27.5°	1108.3	1113.0	1127.1	1131.8	1145.9	1183.6	1298.8	1433.0	1503.6	1494.1	1350.6
30°	1188.3	1190.6	1200.0	1195.3	1197.7	1244.7	1336.5	1491.8	1588.3	1590.6	1423.6
32.5°	1282.4	1301.2	1305.9	1275.3	1280.0	1291.8	1395.3	1562.4	1694.2	1677.7	1487.1
35°	1421.2	1428.3	1414.1	1400.0	1364.7	1357.7	1456.5	1633.0	1785.9	1804.7	1581.2
37.5°	1593.0	1611.8	1593.0	1517.7	1480.0	1451.8	1531.8	1710.6	1896.5	1960.0	1675.3
40°	1753.0	1750.6	1731.8	1663.6	1597.7	1576.5	1640.0	1818.9	2068.3	2129.5	1811.8
42.5°	1882.4	1875.3	1863.6	1811.8	1750.6	1715.3	1764.7	1931.8	2211.8	2329.5	1969.5
45°	1995.3	1985.9	1988.3	1929.4	1870.6	1889.4	1889.4	2061.2	2381.2	2527.1	2150.6
47.5°	2101.2	2105.9	2098.9	2054.2	2009.5	2058.9	2033.0	2209.5	2548.3	2710.6	2303.6
50°	2223.6	2233.0	2209.5	2181.2	2141.2	2190.6	2157.7	2348.3	2656.5	2877.7	2487.1
52.5°	2338.9	2348.3	2369.5	2334.2	2294.2	2334.2	2258.9	2477.7	2800.1	3040.1	2628.3
55°	2367.1	2362.4	2480.0	2517.7	2538.9	2418.9	2348.3	2588.3	2913.0	3143.6	2788.3
57.5°	2237.7	2249.5	2409.5	2517.7	2743.6	2640.1	2449.5	2717.7	3030.6	3280.1	2936.5
60°	1915.3	1922.4	2122.4	2378.9	2708.3	2847.1	2722.4	2884.8	3160.1	3395.4	3103.6
62.5°	1280.0	1334.1	1583.6	1985.9	2458.9	2903.6	3157.7	3167.1	3317.7	3541.2	3331.8
65°	675.3	701.2	896.5	1221.2	1863.6	2708.3	3567.1	3727.1	3633.0	3809.5	3661.2
67.5°	442.4	451.8	557.7	741.2	1075.3	1976.5	3614.2	4698.9	4266.0	4320.1	4188.3
70°	329.4	334.1	411.8	548.2	665.9	1056.5	2962.4	5153.0	5150.7	5007.2	4814.2
72.5°	242.4	249.4	303.5	418.8	513.0	569.4	1665.9	4609.5	5421.3	5348.3	4851.9
75°	190.6	195.3	223.5	324.7	414.1	374.1	844.7	3414.2	4597.7	4948.3	4440.1
77.5°	155.3	160.0	176.5	235.3	331.8	289.4	404.7	2202.4	3117.7	3562.4	3397.7
80°	129.4	129.4	141.2	167.1	256.5	218.8	240.0	1237.7	1680.0	1854.2	1541.2
82.5°	110.6	108.2	117.6	122.4	190.6	157.7	155.3	560.0	738.8	783.5	578.8
85°	70.6	72.9	110.6	105.9	124.7	108.2	87.1	265.9	348.2	355.3	216.5
87.5°	28.2	28.2	47.1	58.8	70.6	65.9	42.4	120.0	152.9	152.9	61.2
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°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0
2.5°	840.0	830.6	823.5	818.8	807.1	795.3	797.7	795.3	785.9	781.2	781.2
5°	849.4	840.0	828.3	809.4	797.7	783.5	788.3	778.8	769.4	776.5	764.7
7.5°	873.0	856.5	840.0	811.8	793.0	771.8	762.4	757.7	750.6	745.9	745.9
10°	905.9	882.4	851.8	809.4	778.8	745.9	741.2	731.8	724.7	724.7	722.4
12.5°	938.8	913.0	861.2	793.0	741.2	717.7	715.3	717.7	722.4	724.7	727.1
15°	981.2	938.8	858.8	762.4	710.6	701.2	713.0	722.4	731.8	741.2	738.8
17.5°	1021.2	971.8	837.7	724.7	684.7	687.1	708.2	727.1	745.9	755.3	757.7
20°	1075.3	1002.4	807.1	680.0	658.8	680.0	708.2	731.8	753.0	764.7	767.1
22.5°	1136.5	1037.7	767.1	640.0	637.7	658.8	687.1	722.4	745.9	767.1	764.7
25°	1190.6	1061.2	715.3	607.1	611.8	625.9	658.8	696.5	720.0	743.5	736.5
27.5°	1225.9	1065.9	661.2	583.5	583.5	597.7	628.2	651.8	673.0	691.8	694.1
30°	1265.9	1056.5	600.0	553.0	553.0	571.8	583.5	597.7	609.4	614.1	618.8
32.5°	1313.0	1035.3	562.4	529.4	529.4	543.5	550.6	545.9	543.5	531.8	538.8
35°	1357.7	1004.7	520.0	498.8	508.2	515.3	513.0	498.8	484.7	463.5	456.5
37.5°	1411.8	974.1	482.4	465.9	482.4	484.7	484.7	468.2	449.4	423.5	423.5
40°	1494.1	950.6	451.8	444.7	461.2	458.8	447.1	435.3	442.4	428.2	428.2
42.5°	1581.2	941.2	423.5	425.9	432.9	435.3	423.5	409.4	437.7	421.2	423.5
45°	1689.4	948.3	404.7	402.4	418.8	416.5	409.4	397.7	407.1	364.7	352.9
47.5°	1790.6	962.4	395.3	385.9	404.7	409.4	400.0	374.1	360.0	334.1	329.4
50°	1882.4	993.0	385.9	367.1	385.9	395.3	378.8	350.6	334.1	317.7	317.7
52.5°	1969.5	1037.7	381.2	345.9	362.4	374.1	364.7	336.5	317.7	310.6	303.5
55°	2058.9	1077.7	374.1	331.8	336.5	360.0	357.7	320.0	301.2	301.2	298.8
57.5°	2185.9	1131.8	364.7	308.2	317.7	343.5	343.5	312.9	291.8	294.1	296.5
60°	2315.3	1195.3	355.3	284.7	291.8	327.1	331.8	303.5	284.7	287.1	284.7
62.5°	2522.4	1313.0	336.5	256.5	270.6	305.9	317.7	291.8	275.3	280.0	280.0
65°	2835.3	1515.3	296.5	232.9	249.4	287.1	303.5	280.0	261.2	275.3	270.6
67.5°	3338.9	1793.0	249.4	214.1	235.3	268.2	287.1	265.9	249.4	270.6	263.5
70°	3790.7	1929.4	214.1	197.7	214.1	247.1	268.2	251.8	235.3	256.5	247.1
72.5°	3607.1	1513.0	185.9	178.8	195.3	223.5	249.4	232.9	216.5	228.2	218.8
75°	3113.0	1204.7	162.4	160.0	174.1	202.4	228.2	216.5	200.0	204.7	200.0
77.5°	2360.0	995.3	138.8	136.5	148.2	181.2	204.7	195.3	178.8	176.5	176.5
80°	1054.1	489.4	115.3	115.3	122.4	155.3	174.1	169.4	152.9	150.6	148.2
82.5°	345.9	185.9	94.1	89.4	98.8	129.4	155.3	150.6	134.1	129.4	124.7
85°	138.8	89.4	68.2	68.2	77.6	108.2	138.8	129.4	108.2	96.5	96.5
87.5°	47.1	37.6	35.3	35.3	49.4	72.9	103.5	87.1	77.6	68.2	70.6
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)