

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: P675049

Luminaire Tested: **CCW-SA-1F-840-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675049  
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-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T3 distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

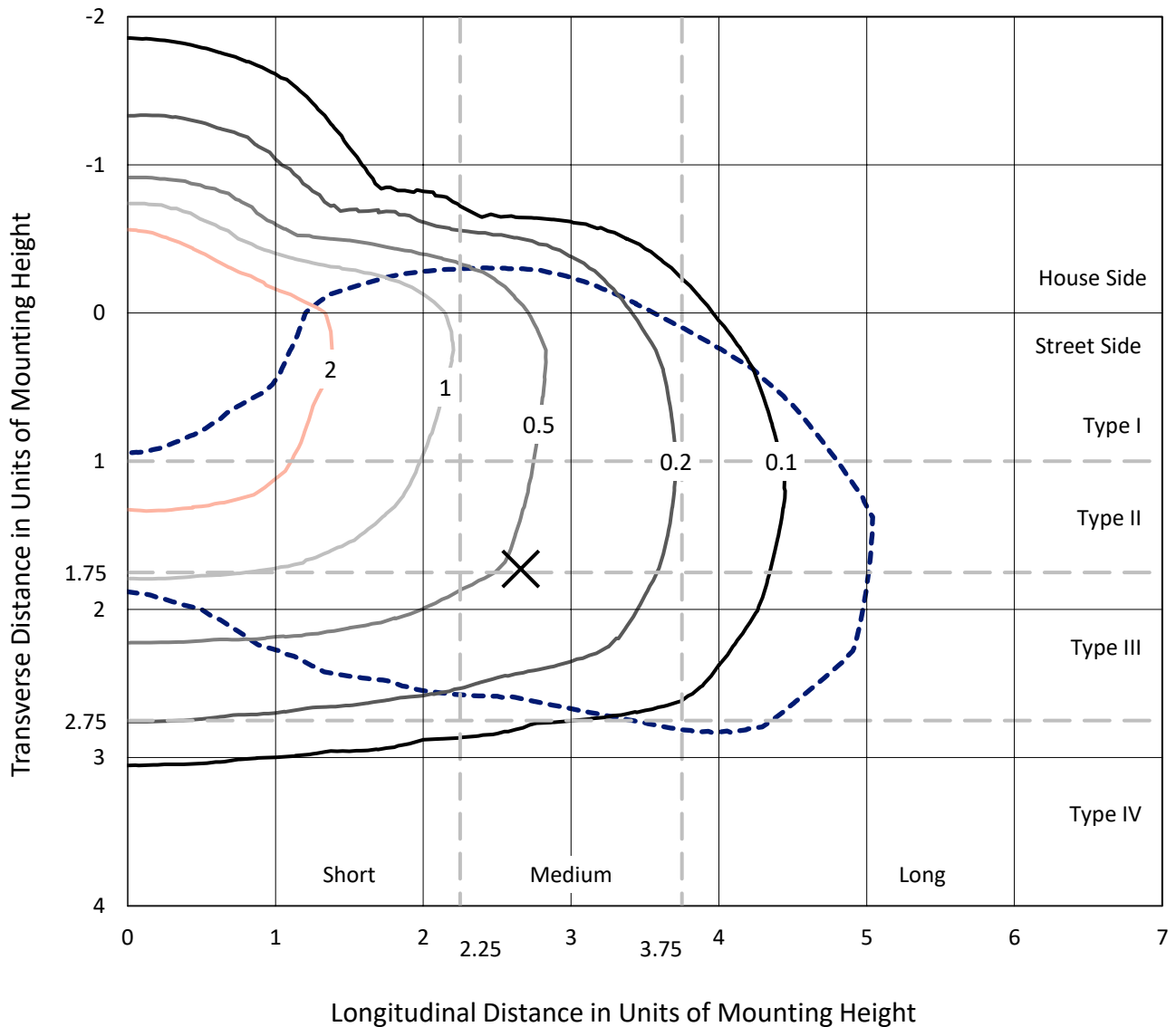
Lumens per Lamp: N/A  
Luminaire Lumens: 6458.9 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

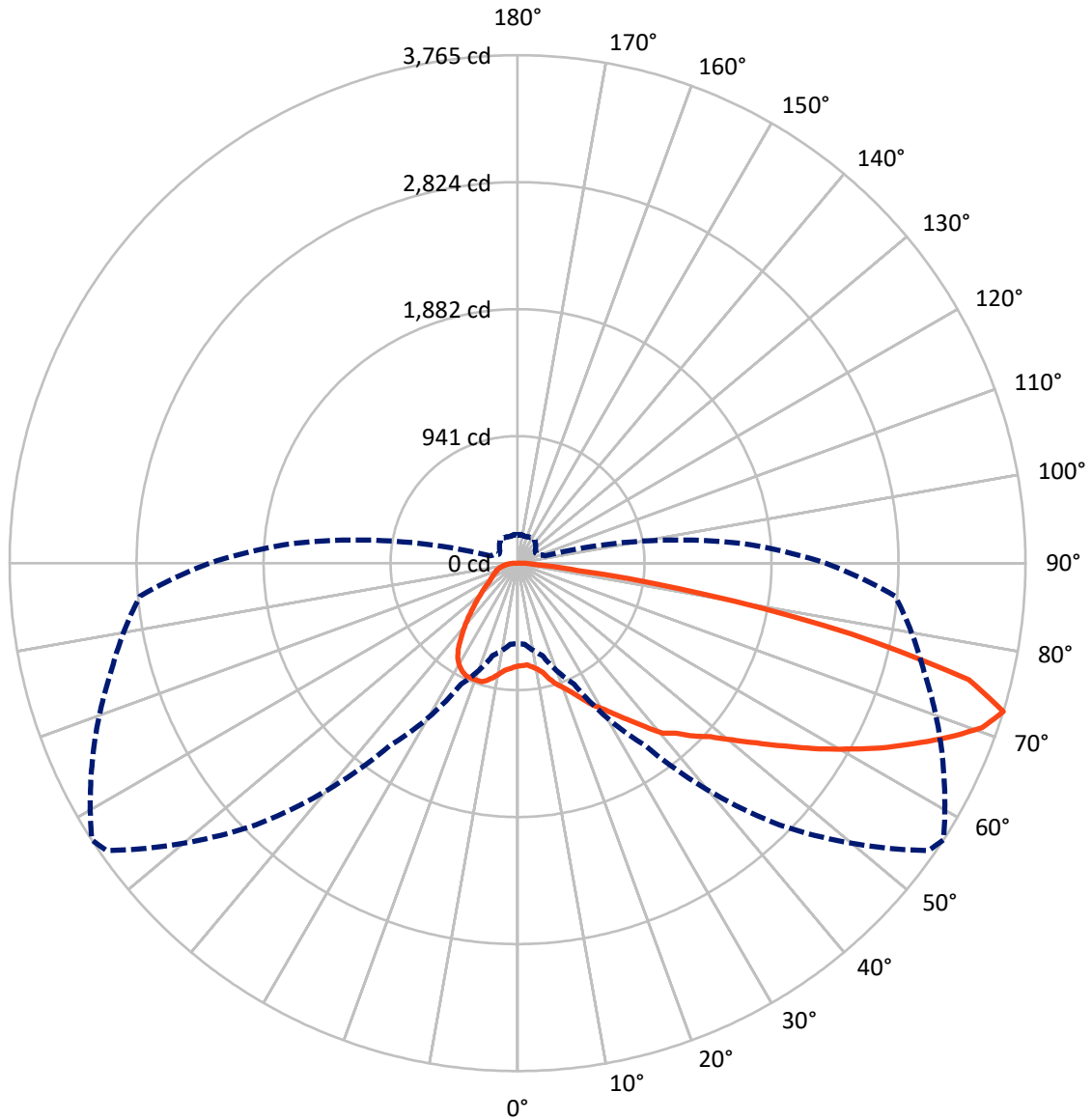
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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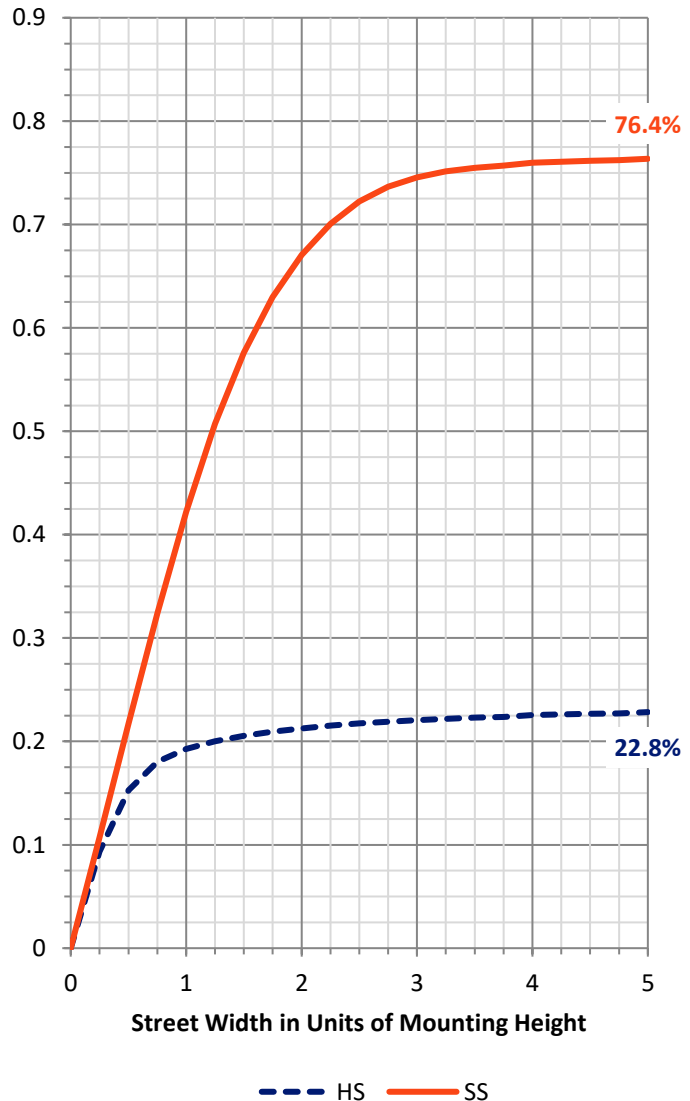
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1508.4	0.0	1508.4
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	4950.5	0.0	4950.5
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	6458.9	0.0	6458.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	1.2
10°-20°	255.0	3.9
20°-30°	466.2	7.2
30°-40°	684.0	10.6
40°-50°	941.8	14.6
50°-60°	1291.4	20.0
60°-70°	1556.7	24.1
70°-80°	1037.0	16.1
80°-90°	151.0	2.3
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°	6458.9	100.0
0°-180°	6458.9	100.0



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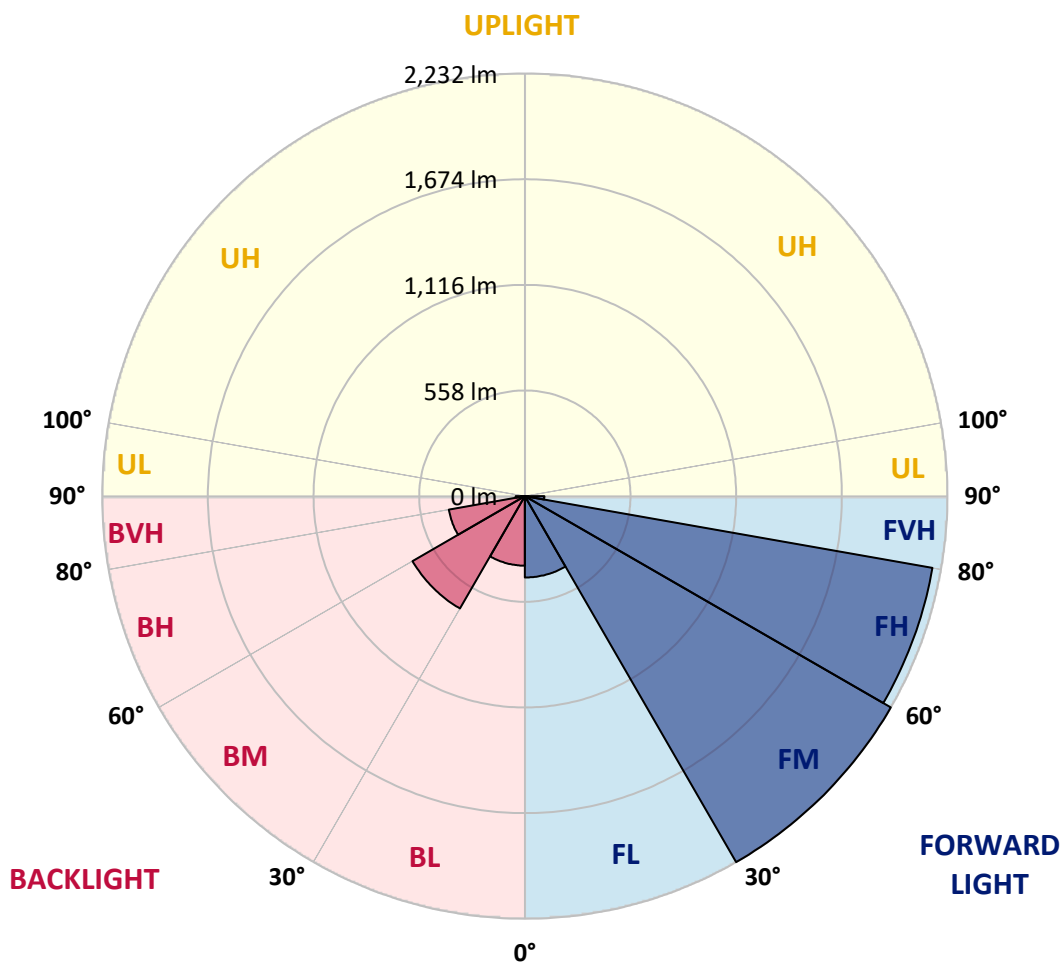
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.7	6.7			
FM (30°-60°)	2232.1	34.6			
FH (60°-80°)	2185.9	33.8			G2/5000
FVH (80°-90°)	102.9	1.6			G2/225
BL (0°-30°)	367.2	5.7	B1/500		
BM (30°-60°)	685.1	10.6	B1/1000		
BH (60°-80°)	407.8	6.3	B1/500		G1/500
BVH (80°-90°)	48.2	0.7			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4
2.5°	748.2	750.6	755.3	752.9	752.9	745.9	757.7	760.0	755.3	757.7	762.4
5°	748.2	752.9	760.0	755.3	757.7	755.3	750.6	757.7	757.7	760.0	767.1
7.5°	788.2	785.9	785.9	778.8	776.5	774.1	776.5	776.5	771.8	774.1	774.1
10°	832.9	832.9	828.2	828.2	823.5	811.8	800.0	797.7	790.6	792.9	792.9
12.5°	880.0	884.7	889.4	875.3	870.6	851.8	844.7	830.6	830.6	825.9	823.5
15°	938.8	931.8	936.5	931.8	920.0	901.2	889.4	891.8	875.3	870.6	863.5
17.5°	990.6	992.9	985.9	981.2	960.0	945.9	948.2	945.9	924.7	917.7	905.9
20°	1051.8	1049.4	1049.4	1035.3	1016.5	997.7	990.6	988.2	992.9	978.8	950.6
22.5°	1115.3	1105.9	1105.9	1094.1	1068.2	1056.5	1051.8	1042.4	1047.1	1035.3	992.9
25°	1167.1	1167.1	1183.5	1160.0	1145.9	1122.4	1112.9	1115.3	1117.7	1094.1	1044.7
27.5°	1235.3	1223.5	1240.0	1228.2	1221.2	1195.3	1183.5	1190.6	1185.9	1160.0	1091.8
30°	1322.4	1324.7	1315.3	1298.8	1289.4	1270.6	1263.5	1256.5	1263.5	1230.6	1143.5
32.5°	1430.6	1437.7	1414.1	1395.3	1378.8	1360.0	1345.9	1338.8	1345.9	1296.5	1183.5
35°	1555.3	1562.4	1543.5	1522.4	1503.5	1456.5	1444.7	1432.9	1407.1	1327.1	1221.2
37.5°	1670.6	1661.2	1656.5	1656.5	1621.2	1552.9	1545.9	1538.8	1489.4	1388.2	1272.9
40°	1748.2	1760.0	1755.3	1750.6	1745.9	1682.4	1668.2	1656.5	1574.1	1480.0	1345.9
42.5°	1835.3	1828.2	1847.1	1854.1	1837.7	1818.8	1762.4	1722.4	1649.4	1574.1	1454.1
45°	1938.8	1934.1	1941.2	1967.1	1943.5	1950.6	1856.5	1828.2	1736.5	1691.8	1590.6
47.5°	2030.6	2042.4	2077.7	2084.7	2065.9	2098.8	1967.1	1922.4	1863.5	1828.2	1731.8
50°	2070.6	2084.7	2164.7	2214.1	2216.5	2268.2	2077.7	2058.8	1978.8	1993.0	1908.2
52.5°	2037.7	2082.4	2178.8	2308.2	2388.2	2440.0	2223.5	2214.1	2141.2	2185.9	2101.2
55°	2068.2	2110.6	2174.1	2355.3	2557.7	2569.4	2425.9	2390.6	2317.7	2378.8	2301.2
57.5°	2082.4	2058.8	2178.8	2407.1	2682.4	2713.0	2618.8	2593.0	2536.5	2595.3	2550.6
60°	1971.8	2000.0	2113.0	2393.0	2689.4	2865.9	2835.3	2797.7	2745.9	2800.0	2774.1
62.5°	1847.1	1865.9	1988.2	2308.2	2729.4	2976.5	3044.7	3016.5	2943.5	2990.6	3035.3
65°	1689.4	1691.8	1828.2	2157.7	2651.8	3040.0	3228.3	3225.9	3174.1	3162.4	3233.0
67.5°	1496.5	1515.3	1623.5	1997.7	2545.9	3110.6	3409.4	3444.7	3341.2	3249.4	3275.3
70°	1148.2	1167.1	1270.6	1637.7	2329.4	3089.4	3633.0	3651.8	3449.4	3216.5	3150.6
72.5°	597.6	602.4	708.2	988.2	1651.8	2743.5	3715.3	3764.7	3477.7	3120.0	2809.4
75°	197.6	197.6	242.4	376.5	778.8	1755.3	3364.7	3454.1	3338.8	2880.0	2298.8
77.5°	117.6	120.0	143.5	188.2	310.6	701.2	2371.8	2529.4	2731.8	2449.4	1680.0
80°	84.7	87.1	108.2	129.4	185.9	225.9	1190.6	1409.4	1677.7	1576.5	896.5
82.5°	63.5	63.5	84.7	96.5	127.1	134.1	331.8	454.1	724.7	564.7	247.1
85°	65.9	65.9	65.9	68.2	87.1	77.6	138.8	148.2	211.8	185.9	68.2
87.5°	23.5	25.9	65.9	44.7	44.7	32.9	54.1	58.8	75.3	77.6	25.9
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°	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4
2.5°	764.7	764.7	767.1	767.1	771.8	776.5	783.5	778.8	778.8	781.2	778.8
5°	762.4	764.7	771.8	783.5	788.2	790.6	804.7	804.7	804.7	809.4	809.4
7.5°	771.8	776.5	788.2	800.0	802.4	809.4	828.2	832.9	844.7	849.4	851.8
10°	795.3	802.4	811.8	825.9	835.3	844.7	858.8	875.3	872.9	887.1	889.4
12.5°	830.6	828.2	844.7	858.8	868.2	882.4	887.1	887.1	887.1	887.1	891.8
15°	858.8	863.5	877.7	887.1	898.8	896.5	887.1	877.7	880.0	877.7	877.7
17.5°	901.2	901.2	912.9	915.3	920.0	896.5	882.4	882.4	889.4	889.4	884.7
20°	943.5	941.2	945.9	943.5	912.9	884.7	882.4	884.7	887.1	884.7	882.4
22.5°	983.5	978.8	971.8	962.4	908.2	882.4	877.7	865.9	854.1	854.1	847.1
25°	1018.8	1014.1	995.3	967.1	905.9	868.2	844.7	816.5	802.4	795.3	804.7
27.5°	1051.8	1042.4	1016.5	967.1	884.7	830.6	785.9	750.6	738.8	729.4	738.8
30°	1096.5	1080.0	1044.7	960.0	851.8	771.8	710.6	668.2	656.5	642.4	647.1
32.5°	1136.5	1098.8	1068.2	938.8	809.4	705.9	635.3	592.9	571.8	560.0	569.4
35°	1178.8	1141.2	1077.7	905.9	743.5	625.9	555.3	515.3	498.8	482.4	482.4
37.5°	1221.2	1200.0	1091.8	844.7	663.5	550.6	487.1	456.5	428.2	397.6	397.6
40°	1310.6	1282.4	1108.2	774.1	583.5	477.6	432.9	392.9	364.7	322.4	320.0
42.5°	1404.7	1343.5	1108.2	689.4	512.9	425.9	383.5	341.2	289.4	263.5	265.9
45°	1524.7	1454.1	1077.7	614.1	442.4	383.5	336.5	282.4	258.8	242.4	242.4
47.5°	1675.3	1564.7	1040.0	531.8	385.9	345.9	287.1	254.1	237.6	223.5	221.2
50°	1854.1	1665.9	992.9	461.2	338.8	310.6	261.2	235.3	221.2	211.8	211.8
52.5°	2042.4	1814.1	960.0	397.6	301.2	263.5	242.4	225.9	214.1	207.1	204.7
55°	2233.0	1962.4	936.5	329.4	265.9	242.4	237.6	223.5	218.8	211.8	207.1
57.5°	2447.1	2084.7	931.8	282.4	237.6	232.9	242.4	230.6	223.5	216.5	209.4
60°	2677.7	2249.4	889.4	244.7	223.5	228.2	235.3	223.5	218.8	211.8	207.1
62.5°	2905.9	2371.8	774.1	216.5	209.4	214.1	223.5	214.1	207.1	209.4	211.8
65°	3000.0	2381.2	600.0	195.3	192.9	195.3	209.4	207.1	200.0	214.1	214.1
67.5°	2905.9	2296.5	423.5	176.5	176.5	188.2	211.8	216.5	209.4	228.2	225.9
70°	2691.8	2087.1	287.1	164.7	169.4	200.0	218.8	214.1	204.7	228.2	223.5
72.5°	2284.7	1670.6	209.4	152.9	160.0	190.6	216.5	211.8	204.7	214.1	204.7
75°	1715.3	1188.2	164.7	138.8	141.2	171.8	223.5	211.8	192.9	188.2	181.2
77.5°	1145.9	734.1	127.1	122.4	122.4	150.6	214.1	197.6	174.1	167.1	164.7
80°	545.9	294.1	101.2	103.5	105.9	129.4	195.3	176.5	157.6	148.2	148.2
82.5°	174.1	110.6	84.7	84.7	84.7	105.9	162.4	148.2	136.5	129.4	117.6
85°	61.2	61.2	72.9	75.3	68.2	77.6	134.1	127.1	112.9	94.1	91.8
87.5°	23.5	35.3	49.4	58.8	42.4	54.1	96.5	89.4	82.4	61.2	58.8
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)