

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: P670921

Luminaire Tested: **CCP-SA-2B-722-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670921  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-722-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4FT distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

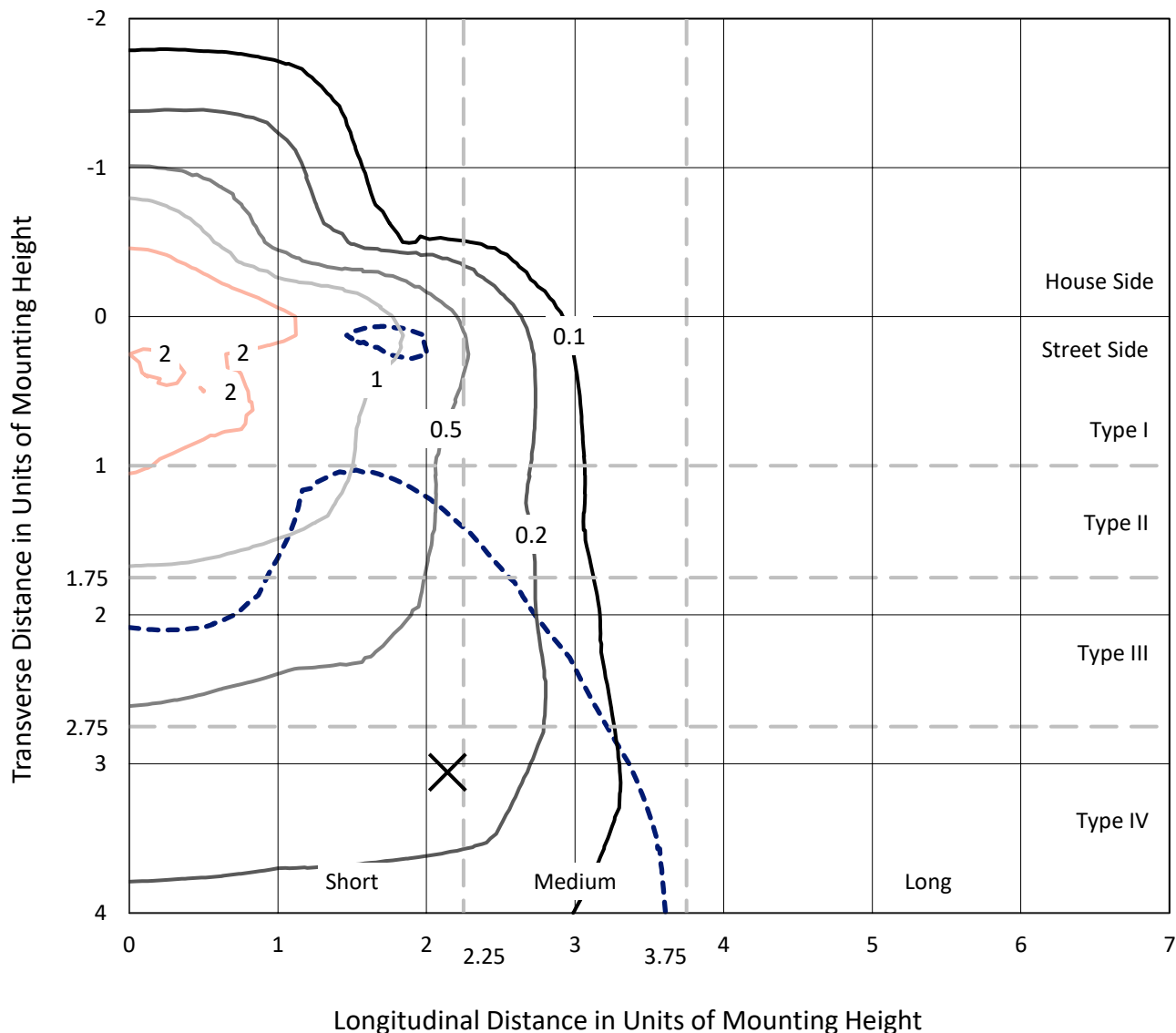
Lumens per Lamp: N/A  
Luminaire Lumens: 5084 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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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 CATALOG NUMBER: CCP-SA-2B-722-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

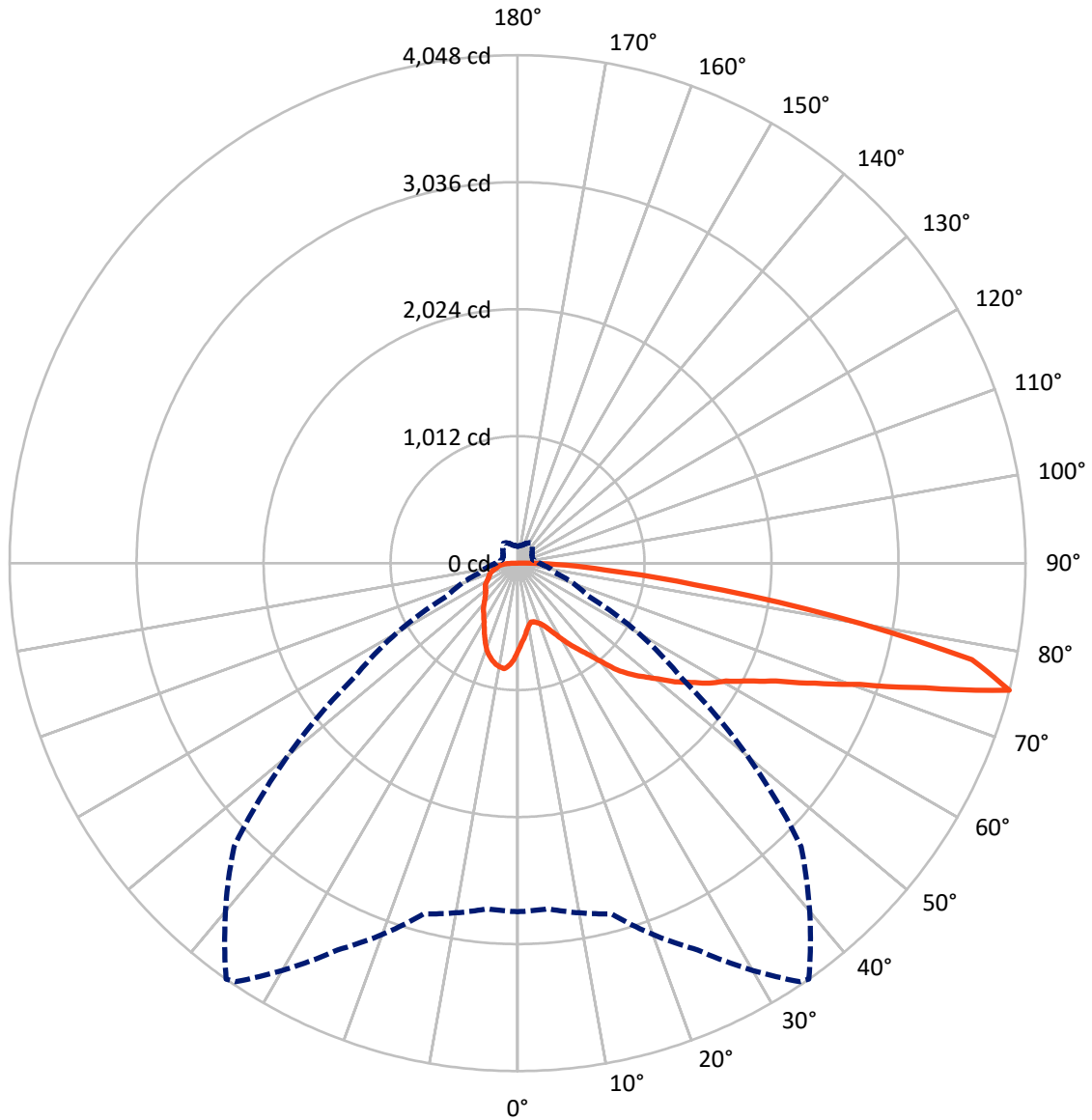
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P670921  
CATALOG NUMBER: CCP-SA-2B-722-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P670921

CATALOG NUMBER: CCP-SA-2B-722-U-T4FT

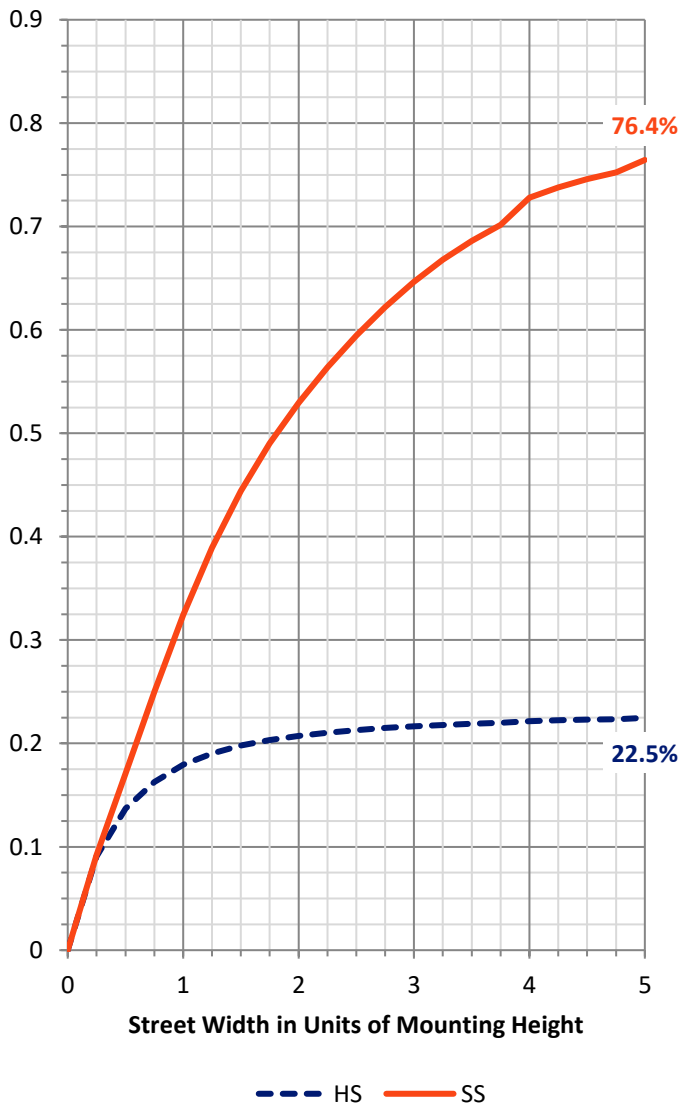
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1168.4	0.0	1168.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	3915.5	0.0	3915.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5084.0	0.0	5084.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.4	1.3
10°-20°	192.6	3.8
20°-30°	319.6	6.3
30°-40°	473.8	9.3
40°-50°	683.2	13.4
50°-60°	939.5	18.5
60°-70°	1160.4	22.8
70°-80°	1061.6	20.9
80°-90°	186.9	3.7
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°	5084.0	100.0
0°-180°	5084.0	100.0



REPORT NUMBER: P670921

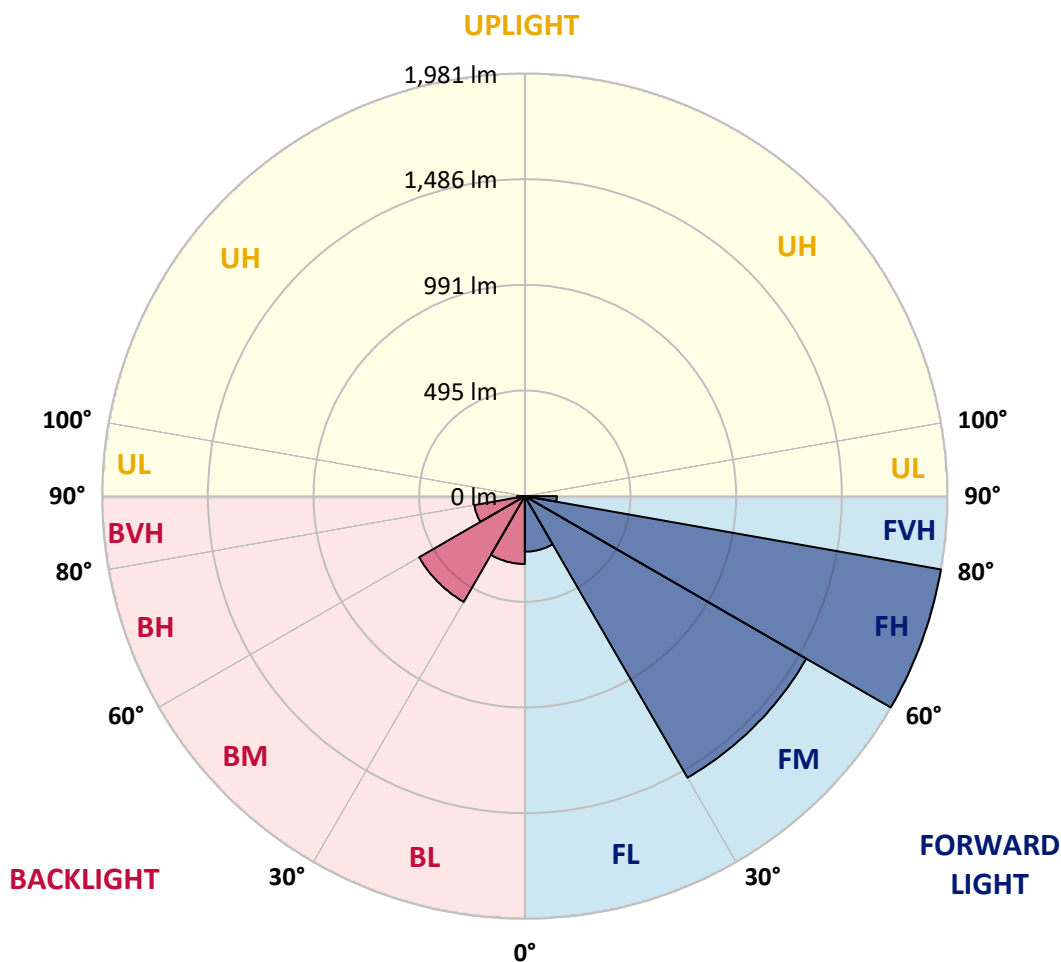
CATALOG NUMBER: CCP-SA-2B-722-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.6	5.1			
FM (30°-60°)	1523.9	30.0			
FH (60°-80°)	1981.1	39.0			G2/5000
FVH (80°-90°)	150.0	3.0			G2/225
BL (0°-30°)	318.0	6.3	B1/500		
BM (30°-60°)	572.6	11.3	B1/1000		
BH (60°-80°)	240.9	4.7	B1/500		G1/500
BVH (80°-90°)	36.9	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5
2.5°	631.0	625.4	631.0	634.7	634.7	634.7	640.4	657.2	668.4	675.9	689.0
5°	565.5	567.3	571.1	580.4	586.1	589.8	599.2	619.8	636.6	661.0	689.0
7.5°	507.4	511.2	516.8	526.1	539.3	537.4	558.0	586.1	617.9	649.7	690.9
10°	477.5	485.0	486.8	488.7	501.8	501.8	529.9	561.7	601.0	642.2	690.9
12.5°	483.1	483.1	477.5	475.6	483.1	481.2	505.5	543.0	586.1	644.1	698.4
15°	499.9	499.9	488.7	477.5	488.7	485.0	505.5	535.5	586.1	646.0	713.4
17.5°	522.4	524.3	511.2	492.4	496.2	498.1	513.0	541.1	586.1	649.7	734.0
20°	567.3	558.0	537.4	507.4	520.5	514.9	537.4	561.7	597.3	664.7	763.9
22.5°	606.7	606.7	567.3	541.1	543.0	543.0	563.6	584.2	614.1	685.3	786.4
25°	670.3	666.6	617.9	578.6	582.3	584.2	595.4	619.8	642.2	696.5	814.5
27.5°	750.8	741.5	692.8	647.9	632.9	638.5	644.1	662.8	668.4	715.3	848.2
30°	837.0	823.9	782.7	711.5	704.0	705.9	696.5	707.8	700.3	745.2	881.9
32.5°	891.3	891.3	851.9	799.5	778.9	778.9	747.1	754.6	754.6	773.3	941.8
35°	938.1	934.3	908.1	868.8	855.7	848.2	816.4	827.6	808.9	827.6	1026.1
37.5°	1009.2	998.0	986.8	960.5	934.3	928.7	911.9	919.3	893.1	883.8	1121.6
40°	1091.6	1086.0	1074.8	1063.5	1037.3	1035.4	1016.7	1024.2	996.1	960.5	1217.1
42.5°	1213.3	1196.5	1160.9	1151.5	1157.1	1164.6	1157.1	1144.0	1093.5	1048.5	1320.0
45°	1335.0	1308.8	1241.4	1226.4	1269.5	1263.9	1295.7	1290.1	1207.7	1136.5	1428.6
47.5°	1413.7	1391.2	1336.9	1327.5	1346.3	1353.7	1449.2	1432.4	1301.3	1217.1	1533.5
50°	1469.8	1471.7	1400.6	1424.9	1449.2	1449.2	1569.1	1567.2	1415.5	1316.3	1670.2
52.5°	1552.2	1526.0	1496.0	1518.5	1552.2	1570.9	1718.9	1677.7	1486.7	1400.6	1823.7
55°	1595.3	1584.1	1557.8	1597.2	1668.3	1677.7	1835.0	1803.1	1567.2	1499.8	1981.0
57.5°	1612.1	1621.5	1664.6	1681.4	1780.7	1805.0	1939.8	1894.9	1642.1	1623.4	2102.7
60°	1687.0	1673.9	1732.0	1799.4	1894.9	1908.0	2070.9	1973.5	1715.1	1703.9	2142.0
62.5°	1838.7	1805.0	1836.8	1917.3	2050.3	2067.1	2209.4	2078.4	1747.0	1758.2	2140.2
65°	2059.6	2035.3	1988.5	2052.2	2239.4	2263.7	2372.3	2168.2	1737.6	1739.5	1988.5
67.5°	2319.9	2280.6	2231.9	2271.2	2499.7	2555.8	2570.8	2207.6	1672.1	1634.6	1617.8
70°	2548.3	2522.1	2490.3	2557.7	2876.0	2896.6	2818.0	2183.2	1490.4	1312.6	1078.5
72.5°	2761.8	2748.7	2767.4	3020.2	3385.3	3398.4	3050.1	2029.7	1177.7	795.8	501.8
75°	2778.6	2765.5	2894.7	3402.2	4023.8	4048.1	3194.3	1591.5	621.6	323.9	211.6
77.5°	1881.8	1921.1	2162.6	2979.0	3696.1	3701.7	2612.0	739.6	256.5	191.0	147.9
80°	462.5	513.0	814.5	1541.0	2492.2	2554.0	1430.5	249.0	168.5	146.0	110.5
82.5°	168.5	183.5	331.4	696.5	1400.6	1424.9	499.9	134.8	121.7	112.3	80.5
85°	80.5	82.4	157.3	342.6	707.8	700.3	179.8	80.5	88.0	76.8	48.7
87.5°	33.7	33.7	69.3	159.2	312.7	303.3	58.0	37.4	50.6	44.9	24.3
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: P670921  
 CATALOG NUMBER: CCP-SA-2B-722-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5
2.5°	698.4	702.2	717.1	728.4	739.6	749.0	763.9	763.9	773.3	773.3	773.3
5°	696.5	717.1	741.5	767.7	784.5	801.4	816.4	818.2	823.9	831.3	833.2
7.5°	704.0	724.6	763.9	801.4	822.0	829.5	848.2	842.6	842.6	842.6	848.2
10°	719.0	741.5	795.8	829.5	844.5	846.3	840.7	837.0	825.7	822.0	816.4
12.5°	730.2	769.6	823.9	850.1	844.5	838.8	825.7	807.0	793.9	790.2	790.2
15°	758.3	797.6	848.2	857.6	848.2	818.2	801.4	780.8	769.6	752.7	760.2
17.5°	782.7	827.6	872.5	861.3	842.6	795.8	771.4	741.5	726.5	707.8	707.8
20°	814.5	855.7	895.0	865.0	823.9	773.3	734.0	696.5	675.9	657.2	661.0
22.5°	850.1	887.5	908.1	850.1	795.8	737.7	683.4	647.9	621.6	610.4	614.1
25°	878.2	919.3	915.6	825.7	762.1	692.8	632.9	599.2	593.6	582.3	582.3
27.5°	913.7	956.8	910.0	795.8	705.9	621.6	584.2	571.1	571.1	565.5	569.2
30°	960.5	990.5	896.9	752.7	634.7	558.0	539.3	546.7	559.8	554.2	556.1
32.5°	1037.3	1033.6	885.6	704.0	559.8	496.2	509.3	524.3	535.5	541.1	544.9
35°	1112.2	1087.9	872.5	638.5	490.6	466.2	477.5	494.3	514.9	520.5	522.4
37.5°	1187.1	1144.0	850.1	558.0	447.5	440.0	451.2	460.6	477.5	481.2	485.0
40°	1265.7	1181.5	810.8	479.3	411.9	411.9	419.4	421.3	430.7	436.3	440.0
42.5°	1335.0	1217.1	739.6	406.3	374.5	387.6	389.5	385.7	378.2	382.0	383.8
45°	1419.3	1256.4	657.2	353.9	346.4	363.2	367.0	352.0	338.9	331.4	327.7
47.5°	1501.7	1297.6	586.1	310.8	320.2	346.4	346.4	329.5	307.1	288.3	280.9
50°	1576.6	1338.8	528.0	284.6	294.0	333.3	337.0	305.2	280.9	258.4	254.6
52.5°	1702.0	1408.0	468.1	264.0	279.0	323.9	322.1	294.0	262.1	237.8	235.9
55°	1812.5	1477.3	389.5	243.4	264.0	310.8	316.4	282.7	239.7	217.2	213.5
57.5°	1893.0	1494.2	310.8	222.8	249.0	295.8	303.3	260.3	224.7	206.0	204.1
60°	1908.0	1428.6	252.8	206.0	228.4	275.2	280.9	247.2	213.5	198.5	194.7
62.5°	1838.7	1303.2	215.3	191.0	211.6	254.6	265.9	232.2	202.2	189.1	187.2
65°	1681.4	1119.7	189.1	177.9	200.3	239.7	252.8	220.9	192.9	181.6	179.8
67.5°	1331.3	859.4	168.5	168.5	185.4	224.7	243.4	213.5	183.5	176.0	174.1
70°	870.7	516.8	153.5	155.4	174.1	211.6	232.2	204.1	172.3	170.4	166.6
72.5°	374.5	237.8	136.7	142.3	157.3	189.1	215.3	191.0	159.2	153.5	147.9
75°	172.3	144.2	123.6	127.3	140.4	166.6	194.7	176.0	147.9	138.6	132.9
77.5°	121.7	104.9	103.0	110.5	119.8	144.2	172.3	164.8	136.7	129.2	125.5
80°	89.9	80.5	86.1	93.6	99.2	132.9	162.9	151.7	125.5	114.2	108.6
82.5°	63.7	59.9	67.4	74.9	80.5	116.1	149.8	132.9	104.9	95.5	86.1
85°	37.4	39.3	46.8	50.6	56.2	86.1	125.5	106.7	80.5	61.8	59.9
87.5°	16.9	16.9	22.5	24.3	28.1	50.6	84.3	67.4	50.6	39.3	37.4
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)