

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: P670940

Luminaire Tested: **CCP-SA-1E-730-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670940  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-730-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T4FT distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6221.9 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

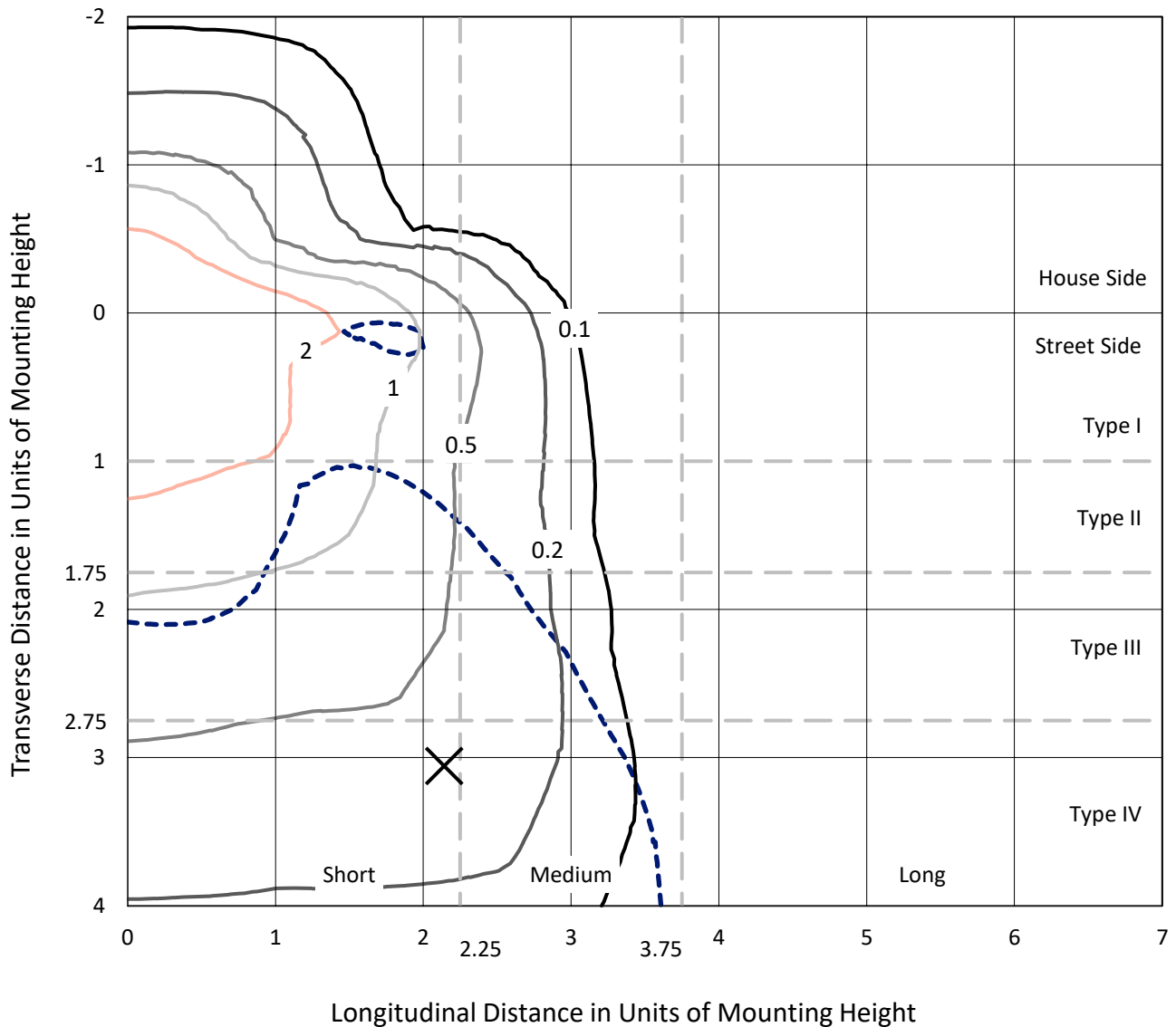
Input Watts (W): 56.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

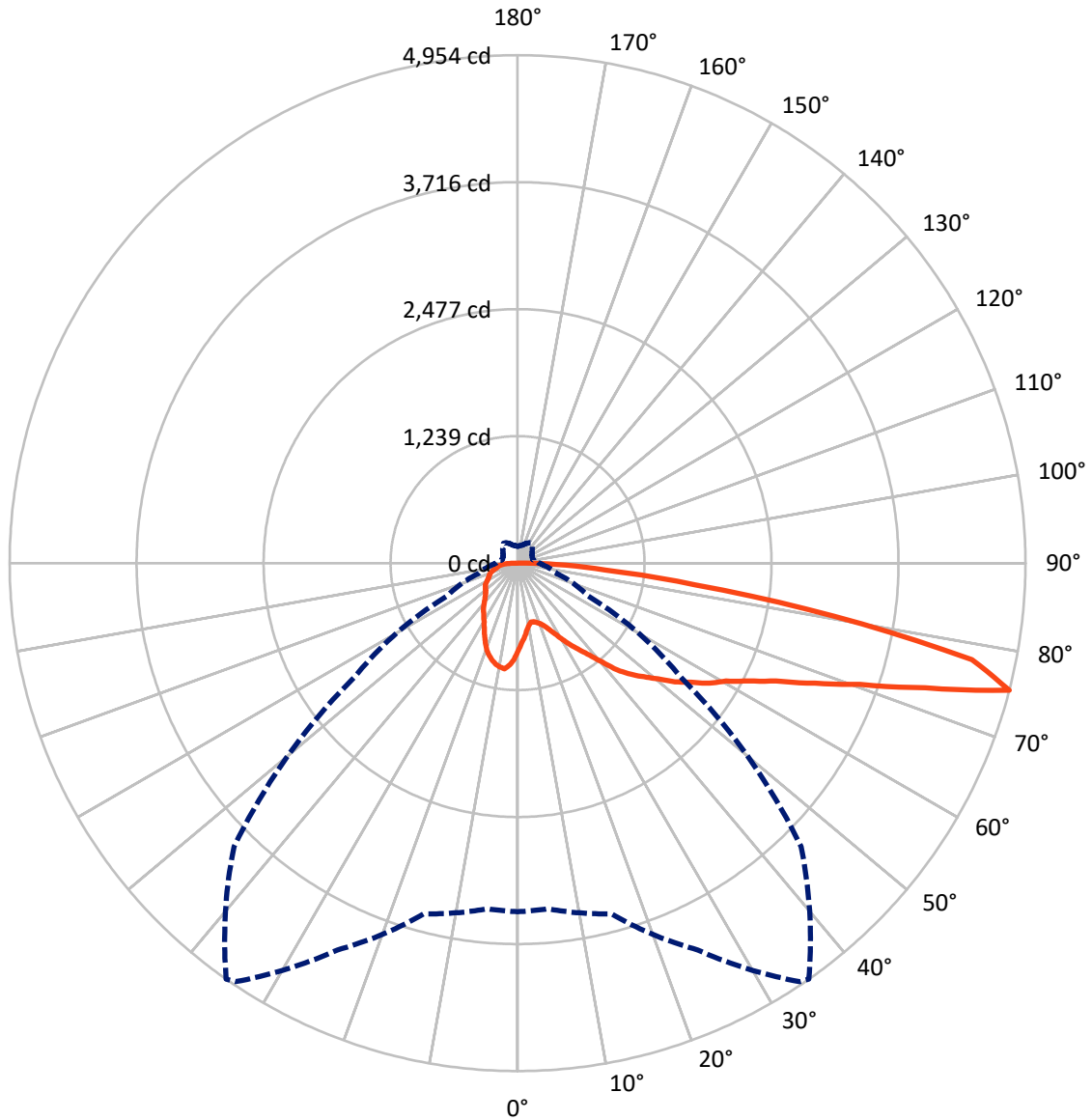
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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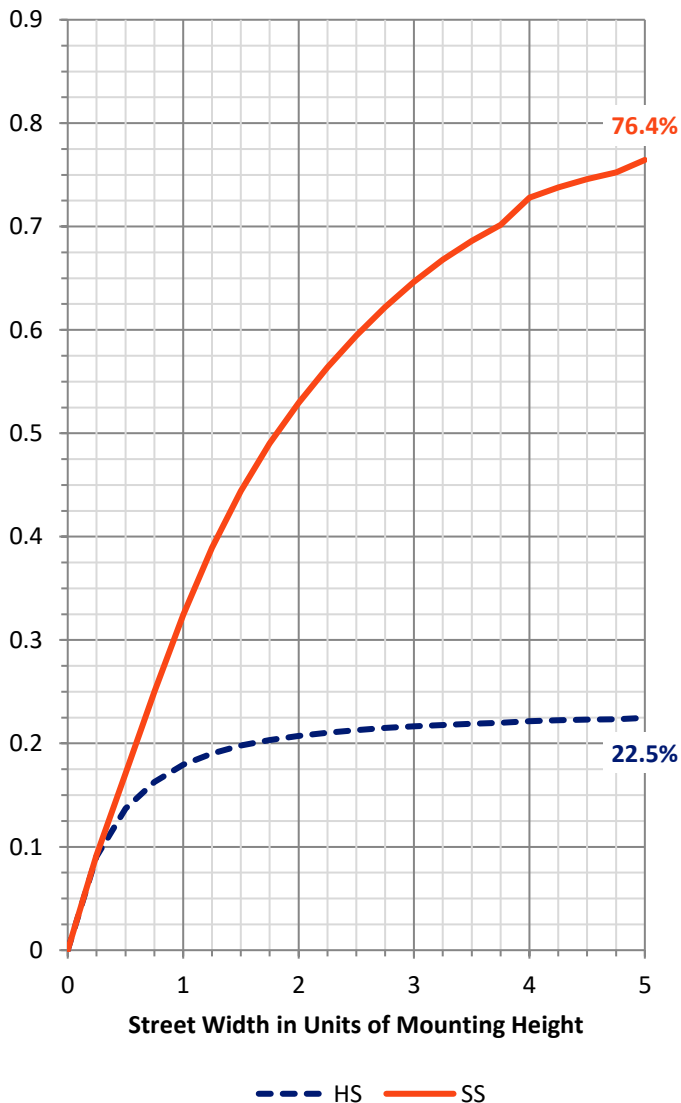
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1430.0	0.0	1430.0
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4792.0	0.0	4792.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	6221.9	0.0	6221.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	1.3
10°-20°	235.7	3.8
20°-30°	391.2	6.3
30°-40°	579.9	9.3
40°-50°	836.1	13.4
50°-60°	1149.7	18.5
60°-70°	1420.2	22.8
70°-80°	1299.2	20.9
80°-90°	228.7	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°	6221.9	100.0
0°-180°	6221.9	100.0



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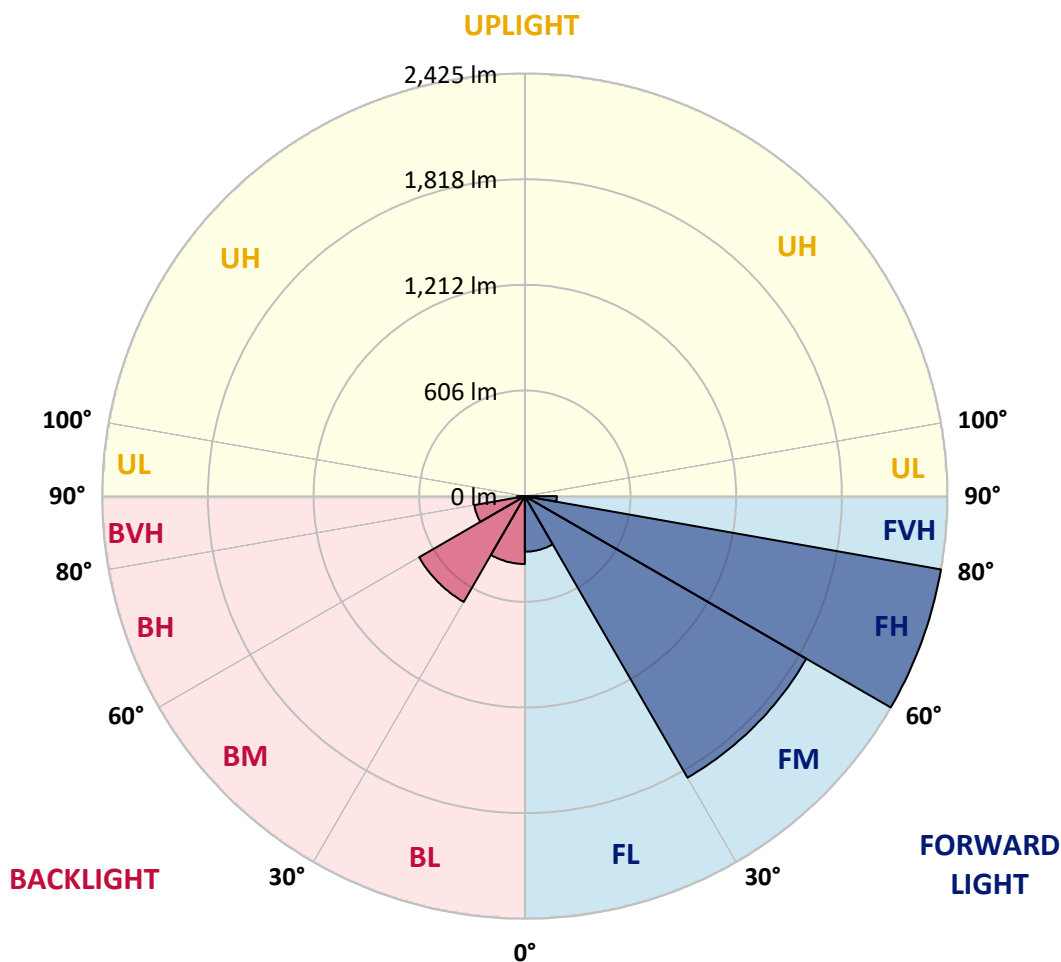
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.9	5.1			
FM (30°-60°)	1865.0	30.0			
FH (60°-80°)	2424.6	39.0			G2/5000
FVH (80°-90°)	183.6	3.0			G2/225
BL (0°-30°)	389.2	6.3	B1/500		
BM (30°-60°)	700.7	11.3	B1/1000		
BH (60°-80°)	294.9	4.7	B1/500		G1/500
BVH (80°-90°)	45.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	852.4	852.4	852.4	852.4	852.4	852.4	852.4	852.4	852.4	852.4	852.4
2.5°	772.2	765.4	772.2	776.8	776.8	776.8	783.7	804.3	818.1	827.2	843.3
5°	692.0	694.3	698.9	710.4	717.2	721.8	733.3	758.5	779.1	808.9	843.3
7.5°	621.0	625.6	632.5	643.9	660.0	657.7	682.9	717.2	756.2	795.2	845.6
10°	584.3	593.5	595.8	598.1	614.1	614.1	648.5	687.5	735.6	786.0	845.6
12.5°	591.2	591.2	584.3	582.0	591.2	588.9	618.7	664.5	717.2	788.3	854.7
15°	611.8	611.8	598.1	584.3	598.1	593.5	618.7	655.4	717.2	790.6	873.1
17.5°	639.3	641.6	625.6	602.7	607.3	609.5	627.9	662.2	717.2	795.2	898.3
20°	694.3	682.9	657.7	621.0	637.0	630.2	657.7	687.5	731.0	813.5	934.9
22.5°	742.5	742.5	694.3	662.2	664.5	664.5	689.7	715.0	751.6	838.7	962.4
25°	820.4	815.8	756.2	708.1	712.7	715.0	728.7	758.5	786.0	852.4	996.8
27.5°	918.9	907.4	847.9	792.9	774.5	781.4	788.3	811.2	818.1	875.4	1038.1
30°	1024.3	1008.3	957.9	870.8	861.6	863.9	852.4	866.2	857.0	912.0	1079.3
32.5°	1090.8	1090.8	1042.6	978.5	953.3	953.3	914.3	923.5	923.5	946.4	1152.6
35°	1148.1	1143.5	1111.4	1063.3	1047.2	1038.1	999.1	1012.9	989.9	1012.9	1255.8
37.5°	1235.1	1221.4	1207.6	1175.5	1143.5	1136.6	1116.0	1125.1	1093.1	1081.6	1372.6
40°	1336.0	1329.1	1315.3	1301.6	1269.5	1267.2	1244.3	1253.5	1219.1	1175.5	1489.5
42.5°	1484.9	1464.3	1420.7	1409.3	1416.2	1425.3	1416.2	1400.1	1338.2	1283.2	1615.5
45°	1633.9	1601.8	1519.3	1500.9	1553.6	1546.8	1585.7	1578.9	1478.0	1391.0	1748.4
47.5°	1730.1	1702.6	1636.1	1624.7	1647.6	1656.8	1773.6	1753.0	1592.6	1489.5	1876.8
50°	1798.8	1801.1	1714.1	1743.8	1773.6	1773.6	1920.3	1918.0	1732.4	1610.9	2044.0
52.5°	1899.7	1867.6	1830.9	1858.4	1899.7	1922.6	2103.6	2053.2	1819.5	1714.1	2231.9
55°	1952.4	1938.6	1906.5	1954.7	2041.7	2053.2	2245.7	2206.7	1918.0	1835.5	2424.4
57.5°	1973.0	1984.5	2037.2	2057.8	2179.2	2209.0	2374.0	2319.0	2009.7	1986.7	2573.4
60°	2064.7	2048.6	2119.7	2202.1	2319.0	2335.1	2534.4	2415.3	2099.0	2085.3	2621.5
62.5°	2250.3	2209.0	2248.0	2346.5	2509.2	2529.8	2704.0	2543.6	2138.0	2151.7	2619.2
65°	2520.7	2490.9	2433.6	2511.5	2740.7	2770.4	2903.4	2653.6	2126.5	2128.8	2433.6
67.5°	2839.2	2791.1	2731.5	2779.6	3059.2	3127.9	3146.3	2701.7	2046.3	2000.5	1979.9
70°	3118.8	3086.7	3047.7	3130.2	3519.8	3545.0	3448.7	2671.9	1824.0	1606.4	1319.9
72.5°	3380.0	3363.9	3386.9	3696.2	4143.1	4159.1	3732.9	2484.0	1441.4	973.9	614.1
75°	3400.6	3384.6	3542.7	4163.7	4924.5	4954.3	3909.3	1947.8	760.8	396.4	258.9
77.5°	2303.0	2351.1	2646.7	3645.8	4523.5	4530.3	3196.7	905.1	313.9	233.7	181.0
80°	566.0	627.9	996.8	1885.9	3050.0	3125.6	1750.7	304.8	206.2	178.7	135.2
82.5°	206.2	224.6	405.6	852.4	1714.1	1743.8	611.8	165.0	148.9	137.5	98.5
85°	98.5	100.8	192.5	419.3	866.2	857.0	220.0	98.5	107.7	94.0	59.6
87.5°	41.2	41.2	84.8	194.8	382.7	371.2	71.0	45.8	61.9	55.0	29.8
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°	852.4	852.4	852.4	852.4	852.4	852.4	852.4	852.4	852.4	852.4	852.4
2.5°	854.7	859.3	877.7	891.4	905.1	916.6	934.9	934.9	946.4	946.4	946.4
5°	852.4	877.7	907.4	939.5	960.1	980.8	999.1	1001.4	1008.3	1017.4	1019.7
7.5°	861.6	886.8	934.9	980.8	1006.0	1015.1	1038.1	1031.2	1031.2	1031.2	1038.1
10°	879.9	907.4	973.9	1015.1	1033.5	1035.8	1028.9	1024.3	1010.6	1006.0	999.1
12.5°	893.7	941.8	1008.3	1040.3	1033.5	1026.6	1010.6	987.6	971.6	967.0	967.0
15°	928.1	976.2	1038.1	1049.5	1038.1	1001.4	980.8	955.6	941.8	921.2	930.4
17.5°	957.9	1012.9	1067.8	1054.1	1031.2	973.9	944.1	907.4	889.1	866.2	866.2
20°	996.8	1047.2	1095.3	1058.7	1008.3	946.4	898.3	852.4	827.2	804.3	808.9
22.5°	1040.3	1086.2	1111.4	1040.3	973.9	902.9	836.4	792.9	760.8	747.0	751.6
25°	1074.7	1125.1	1120.6	1010.6	932.6	847.9	774.5	733.3	726.4	712.7	712.7
27.5°	1118.3	1171.0	1113.7	973.9	863.9	760.8	715.0	698.9	698.9	692.0	696.6
30°	1175.5	1212.2	1097.6	921.2	776.8	682.9	660.0	669.1	685.2	678.3	680.6
32.5°	1269.5	1264.9	1083.9	861.6	685.2	607.3	623.3	641.6	655.4	662.2	666.8
35°	1361.2	1331.4	1067.8	781.4	600.4	570.6	584.3	605.0	630.2	637.0	639.3
37.5°	1452.8	1400.1	1040.3	682.9	547.7	538.5	552.3	563.7	584.3	588.9	593.5
40°	1549.1	1445.9	992.2	586.6	504.1	504.1	513.3	515.6	527.0	533.9	538.5
42.5°	1633.9	1489.5	905.1	497.3	458.3	474.3	476.6	472.1	462.9	467.5	469.8
45°	1737.0	1537.6	804.3	433.1	423.9	444.6	449.1	430.8	414.8	405.6	401.0
47.5°	1837.8	1588.0	717.2	380.4	391.8	423.9	423.9	403.3	375.8	352.9	343.7
50°	1929.5	1638.4	646.2	348.3	359.8	407.9	412.5	373.5	343.7	316.2	311.6
52.5°	2083.0	1723.2	572.9	323.1	341.4	396.4	394.1	359.8	320.8	291.0	288.7
55°	2218.2	1808.0	476.6	297.9	323.1	380.4	387.3	346.0	293.3	265.8	261.2
57.5°	2316.7	1828.6	380.4	272.7	304.8	362.1	371.2	318.5	275.0	252.1	249.8
60°	2335.1	1748.4	309.4	252.1	279.6	336.9	343.7	302.5	261.2	242.9	238.3
62.5°	2250.3	1594.9	263.5	233.7	258.9	311.6	325.4	284.1	247.5	231.4	229.2
65°	2057.8	1370.3	231.4	217.7	245.2	293.3	309.4	270.4	236.0	222.3	220.0
67.5°	1629.3	1051.8	206.2	206.2	226.9	275.0	297.9	261.2	224.6	215.4	213.1
70°	1065.6	632.5	187.9	190.2	213.1	258.9	284.1	249.8	210.8	208.5	203.9
72.5°	458.3	291.0	167.3	174.2	192.5	231.4	263.5	233.7	194.8	187.9	181.0
75°	210.8	176.4	151.2	155.8	171.9	203.9	238.3	215.4	181.0	169.6	162.7
77.5°	148.9	128.3	126.0	135.2	146.7	176.4	210.8	201.7	167.3	158.1	153.5
80°	110.0	98.5	105.4	114.6	121.5	162.7	199.4	185.6	153.5	139.8	132.9
82.5°	77.9	73.3	82.5	91.7	98.5	142.1	183.3	162.7	128.3	116.9	105.4
85°	45.8	48.1	57.3	61.9	68.7	105.4	153.5	130.6	98.5	75.6	73.3
87.5°	20.6	20.6	27.5	29.8	34.4	61.9	103.1	82.5	61.9	48.1	45.8
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)