

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: P672292

Luminaire Tested: **CCP-SA-1F-827-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672292  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-827-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T3R distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

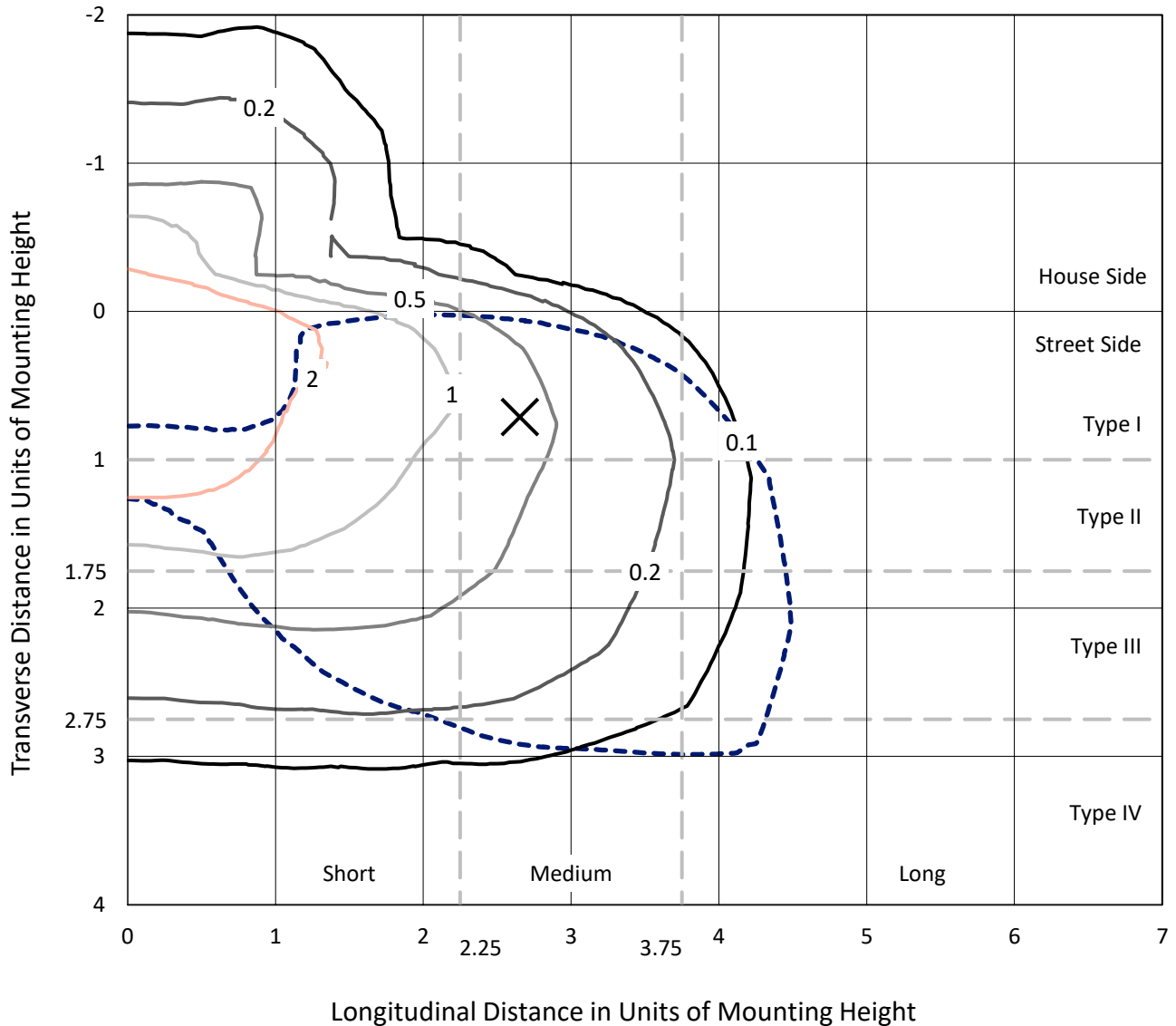
Lumens per Lamp: N/A  
Luminaire Lumens: 5601.8 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

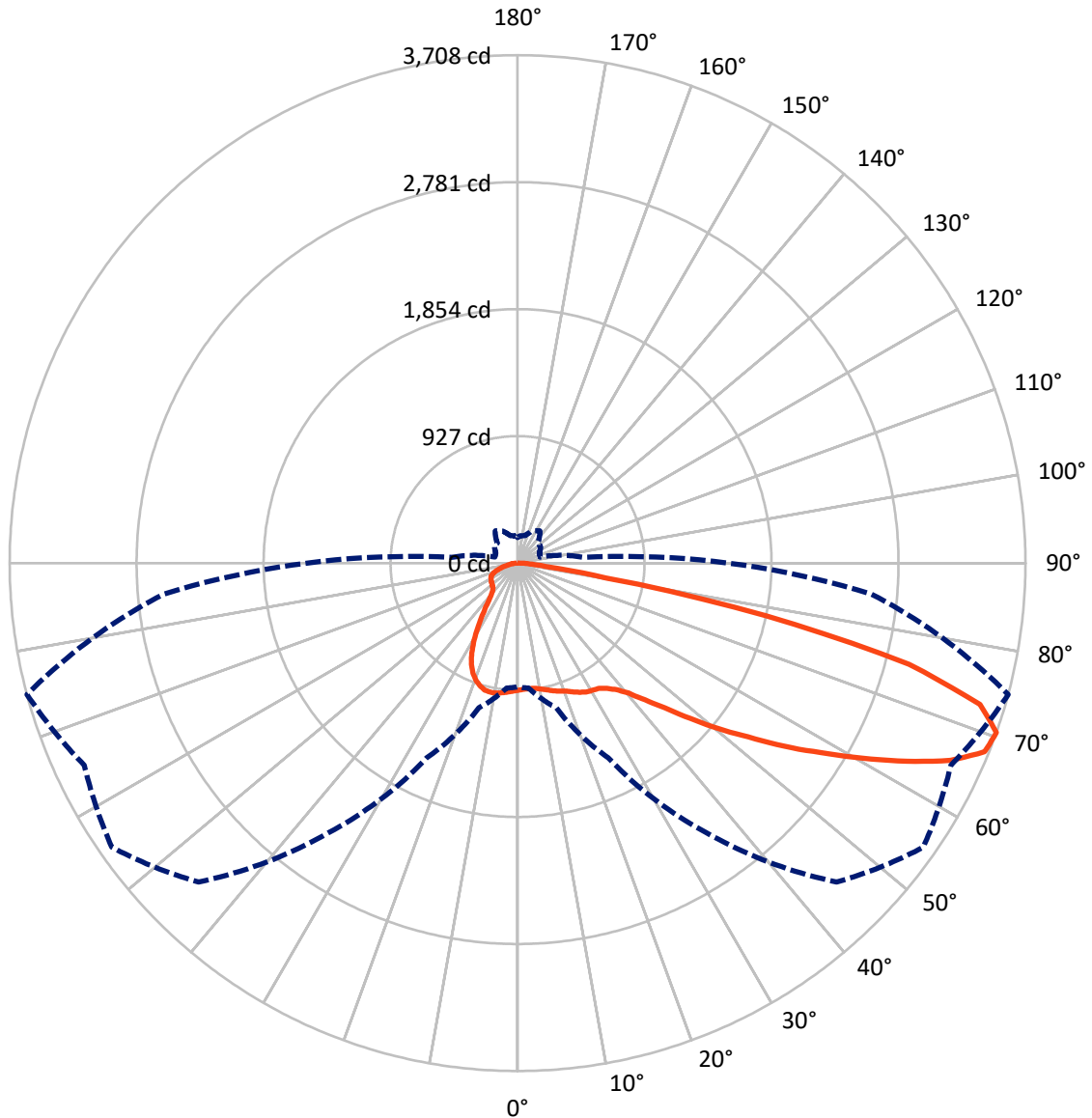
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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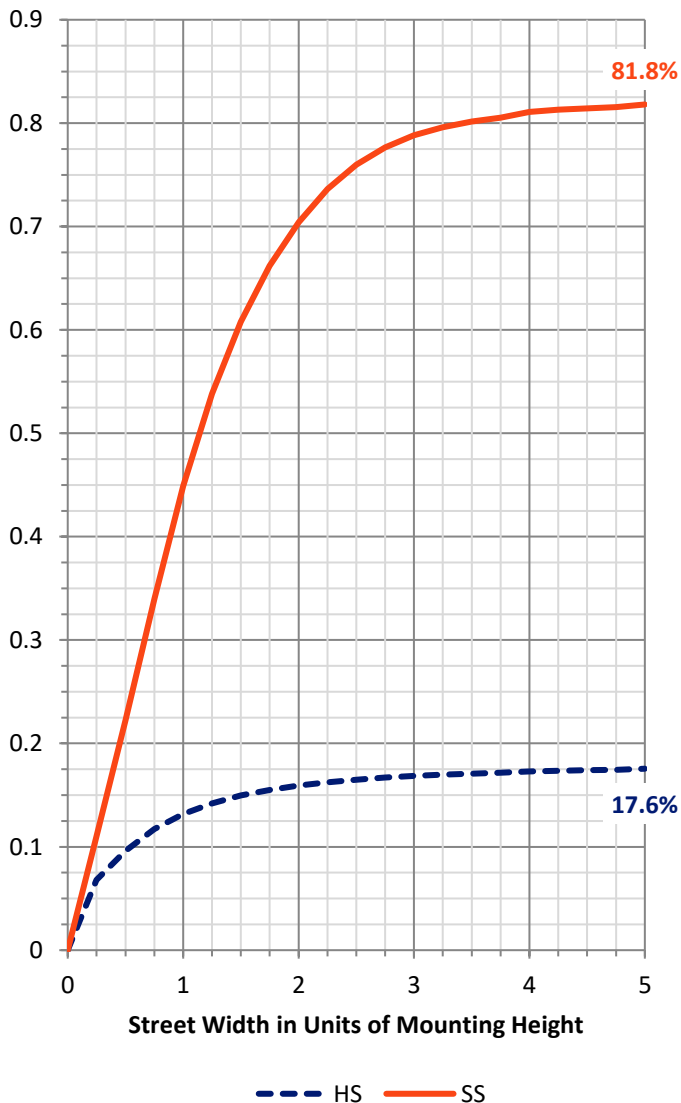
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	996.6	0.0	996.6
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	4605.2	0.0	4605.2
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	5601.8	0.0	5601.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	1.5
10°-20°	222.5	4.0
20°-30°	374.8	6.7
30°-40°	569.3	10.2
40°-50°	815.5	14.6
50°-60°	1081.2	19.3
60°-70°	1353.1	24.2
70°-80°	988.1	17.6
80°-90°	113.9	2.0
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°	5601.8	100.0
0°-180°	5601.8	100.0



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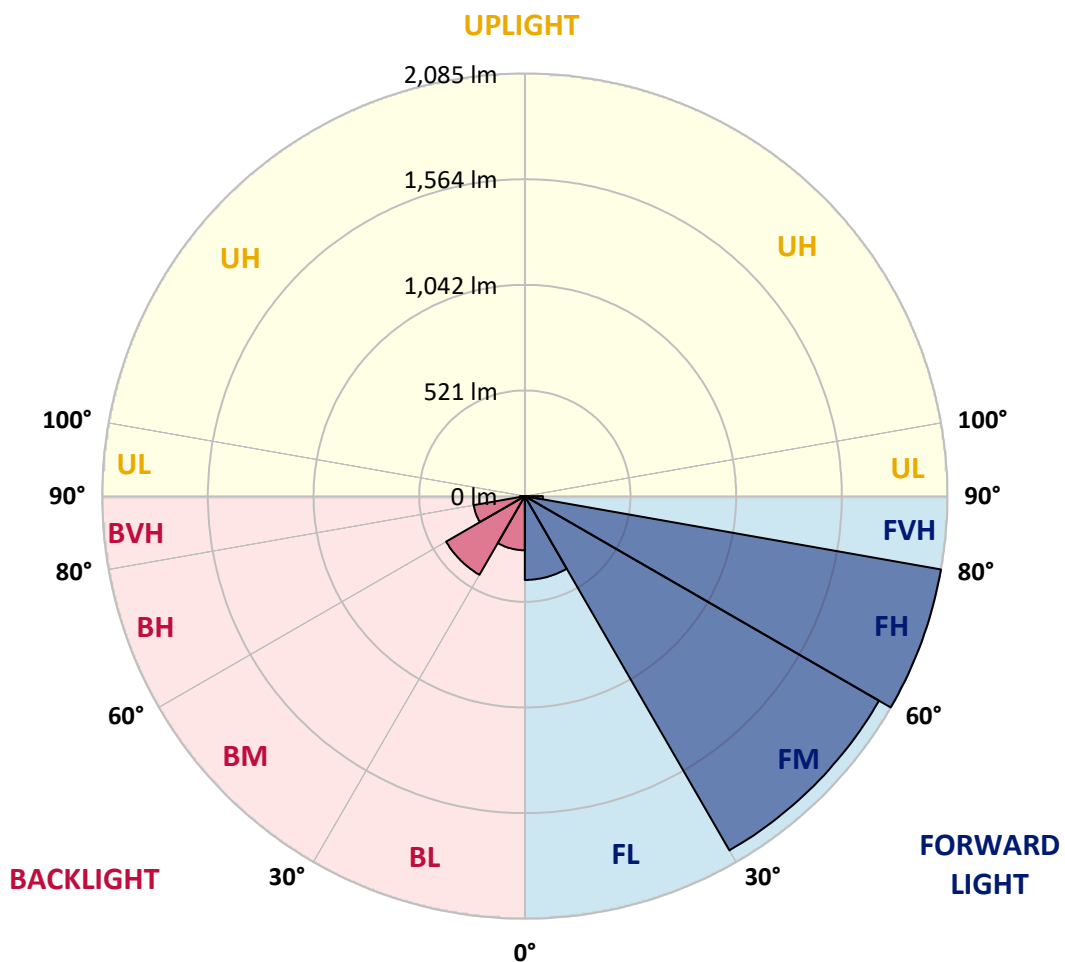
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.4	7.4			
FM (30°-60°)	2018.0	36.0			
FH (60°-80°)	2084.8	37.2			G2/5000
FVH (80°-90°)	88.9	1.6			G1/100
BL (0°-30°)	267.1	4.8	B1/500		
BM (30°-60°)	448.1	8.0	B1/1000		
BH (60°-80°)	256.4	4.6	B1/500		G1/500
BVH (80°-90°)	25.0	0.4			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9
2.5°	877.1	882.0	886.4	890.8	894.5	904.1	906.1	916.6	919.4	921.9	925.1
5°	827.9	831.6	836.0	843.3	850.9	868.3	880.3	903.3	916.2	920.3	931.5
7.5°	801.3	802.5	808.6	814.6	823.5	840.4	857.0	892.8	918.6	923.1	947.3
10°	782.0	783.6	789.2	797.7	806.6	822.3	842.9	885.6	927.5	934.4	968.6
12.5°	775.1	774.3	780.8	786.4	798.9	818.7	840.0	886.0	939.6	949.3	999.7
15°	802.5	797.3	801.3	799.3	803.4	822.7	848.1	894.9	954.5	966.6	1031.9
17.5°	863.0	858.6	855.8	838.4	827.1	838.0	862.2	907.4	970.2	983.1	1060.9
20°	953.3	940.8	930.3	901.3	869.9	866.2	883.2	919.8	985.1	997.6	1091.6
22.5°	1056.1	1046.0	1029.1	978.3	929.5	905.3	909.8	942.8	1006.9	1020.6	1126.6
25°	1185.9	1185.5	1150.8	1082.3	1008.5	959.8	950.5	979.5	1031.5	1044.8	1155.7
27.5°	1333.8	1323.7	1282.6	1194.4	1101.6	1027.1	1005.3	1017.0	1051.3	1065.0	1179.0
30°	1460.4	1461.6	1419.7	1323.3	1200.8	1092.8	1051.7	1044.0	1064.2	1077.9	1200.8
32.5°	1595.8	1589.0	1550.7	1451.5	1308.0	1163.3	1081.5	1063.3	1077.5	1090.4	1231.0
35°	1723.2	1715.5	1682.5	1575.7	1426.1	1241.1	1121.8	1093.6	1108.9	1123.0	1268.1
37.5°	1844.5	1845.7	1808.3	1706.3	1540.6	1333.0	1181.5	1139.1	1155.7	1171.4	1324.5
40°	1950.5	1944.5	1915.5	1823.6	1659.5	1426.5	1248.8	1201.2	1233.5	1248.0	1395.9
42.5°	1984.4	1984.0	1995.3	1938.9	1784.5	1537.8	1332.6	1297.9	1343.5	1365.3	1483.4
45°	1955.0	1963.8	2029.1	2027.5	1909.4	1665.6	1447.1	1415.6	1481.4	1505.9	1590.2
47.5°	1926.0	1939.3	2027.9	2078.3	2021.5	1806.2	1587.8	1564.4	1658.7	1694.2	1701.0
50°	1883.6	1896.1	2001.7	2085.6	2090.0	1948.5	1770.0	1740.5	1861.9	1898.1	1821.6
52.5°	1836.5	1846.1	1955.4	2080.3	2122.7	2059.8	1948.5	1940.1	2079.5	2109.0	1944.1
55°	1576.1	1617.2	1887.3	2069.1	2145.2	2144.8	2122.3	2150.1	2317.0	2360.9	2080.7
57.5°	1426.5	1448.3	1695.4	2062.6	2187.6	2223.4	2301.6	2361.3	2570.5	2610.0	2231.5
60°	1377.8	1397.1	1599.1	2054.9	2271.8	2346.4	2477.0	2573.7	2843.0	2891.4	2400.0
62.5°	1333.4	1356.8	1560.0	1994.1	2373.8	2541.1	2686.2	2803.5	3130.4	3187.6	2567.7
65°	1243.1	1259.7	1488.2	1942.9	2470.5	2818.8	2988.1	3056.6	3408.9	3473.4	2678.9
67.5°	1087.1	1102.9	1326.6	1825.2	2533.4	3107.8	3318.2	3318.6	3624.2	3677.0	2702.3
70°	903.7	915.8	1093.6	1568.8	2402.4	3293.2	3616.1	3489.9	3685.0	3708.0	2591.1
72.5°	646.2	656.6	800.9	1159.7	1969.9	3142.9	3683.8	3482.7	3537.5	3530.2	2274.6
75°	398.3	418.4	490.6	707.8	1224.2	2472.9	3315.4	3155.8	2970.4	2950.2	1712.7
77.5°	259.6	270.1	331.7	417.6	540.1	1419.7	2518.1	2366.1	1875.6	1852.2	920.7
80°	156.0	173.3	217.3	262.4	244.7	543.0	1437.8	1175.4	662.7	655.4	283.0
82.5°	83.8	99.6	153.2	162.4	137.5	191.9	520.8	382.1	212.0	209.6	106.0
85°	66.5	74.2	110.0	102.8	77.8	97.1	203.2	159.2	108.8	106.4	39.9
87.5°	40.3	50.8	83.4	69.3	38.7	35.1	93.1	75.4	51.2	47.6	15.7
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°	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9
2.5°	931.1	933.1	935.2	931.1	932.7	930.7	930.7	930.7	925.5	923.9	928.7
5°	940.0	942.8	944.4	931.9	924.3	913.0	903.7	889.6	881.6	876.3	876.3
7.5°	958.1	961.4	954.1	926.3	899.3	869.1	838.0	812.2	793.7	785.6	788.0
10°	984.7	986.0	961.8	910.6	852.9	796.9	753.0	718.7	695.7	684.0	682.4
12.5°	1015.8	1010.5	963.4	875.9	790.5	715.1	661.5	617.1	587.7	576.4	570.8
15°	1046.4	1033.9	957.3	834.4	719.5	628.8	560.3	518.4	500.2	495.0	493.0
17.5°	1073.8	1050.4	937.2	774.7	637.3	528.0	477.7	462.7	464.8	469.6	471.6
20°	1098.8	1062.9	908.2	703.8	534.5	449.4	436.9	450.7	461.9	469.2	470.4
22.5°	1126.2	1075.0	867.8	617.5	450.2	413.2	428.1	443.8	455.1	462.3	463.6
25°	1147.2	1074.6	811.0	515.1	397.0	403.5	421.2	435.3	443.8	449.0	448.6
27.5°	1160.5	1065.0	736.4	430.9	376.1	396.6	413.6	422.8	427.7	431.7	431.3
30°	1164.5	1046.4	642.5	368.8	366.4	390.2	403.1	408.7	412.4	416.4	416.4
32.5°	1172.6	1017.8	538.9	334.2	359.2	383.7	391.4	395.8	393.0	382.9	380.9
35°	1181.5	986.0	441.0	318.0	352.3	379.3	386.6	374.9	344.2	340.2	338.6
37.5°	1198.8	956.5	357.9	306.8	350.7	381.7	387.8	341.0	315.2	302.7	300.7
40°	1228.2	927.1	302.3	298.7	352.7	392.2	371.6	324.9	282.2	258.4	254.3
42.5°	1266.9	891.2	270.9	294.7	358.3	409.1	366.0	301.9	255.2	239.0	236.6
45°	1311.7	843.7	256.0	293.9	365.2	417.6	367.6	283.4	243.1	230.6	229.8
47.5°	1358.0	796.9	249.5	293.0	373.7	414.0	345.4	277.7	238.2	234.6	237.0
50°	1408.0	743.7	244.3	291.0	380.5	414.0	333.4	276.5	239.8	247.9	256.0
52.5°	1454.7	699.0	238.2	285.0	383.3	406.7	329.7	281.0	242.3	240.2	242.7
55°	1511.6	676.0	235.0	276.5	378.1	384.5	325.3	293.0	244.3	227.7	227.7
57.5°	1576.5	671.1	230.2	265.2	361.2	353.9	324.9	300.3	239.0	223.7	220.9
60°	1654.7	681.6	224.1	251.1	340.6	330.1	322.1	300.3	230.6	216.9	218.1
62.5°	1718.0	680.4	220.5	238.6	313.2	305.5	316.8	296.3	227.3	216.1	215.7
65°	1732.9	654.6	210.0	222.5	279.3	275.7	311.2	286.2	222.9	211.6	208.4
67.5°	1682.5	596.2	194.3	201.1	243.5	243.9	301.1	272.9	216.9	209.2	204.0
70°	1539.4	482.1	170.9	175.3	204.8	210.0	286.2	257.2	206.8	198.7	186.2
72.5°	1288.3	346.7	143.9	145.1	162.8	176.6	260.4	235.8	191.9	172.9	159.6
75°	953.7	230.2	117.3	115.7	122.1	143.5	222.5	212.0	172.5	143.5	136.6
77.5°	504.3	136.2	90.3	90.7	86.7	110.0	176.6	184.2	153.2	120.9	114.1
80°	172.5	81.8	64.9	67.7	61.3	78.6	131.0	153.2	131.0	100.8	89.1
82.5°	79.0	50.0	46.4	48.4	43.9	53.2	89.9	116.1	104.4	73.4	59.3
85°	39.9	29.8	29.8	32.7	29.0	27.4	49.6	77.0	76.6	50.4	43.5
87.5°	16.5	14.5	13.7	15.7	13.7	10.5	14.1	27.8	40.3	30.2	19.3
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)