

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: P672305

Luminaire Tested: **CCP-SA-2B-830-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672305  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-830-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T3R distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

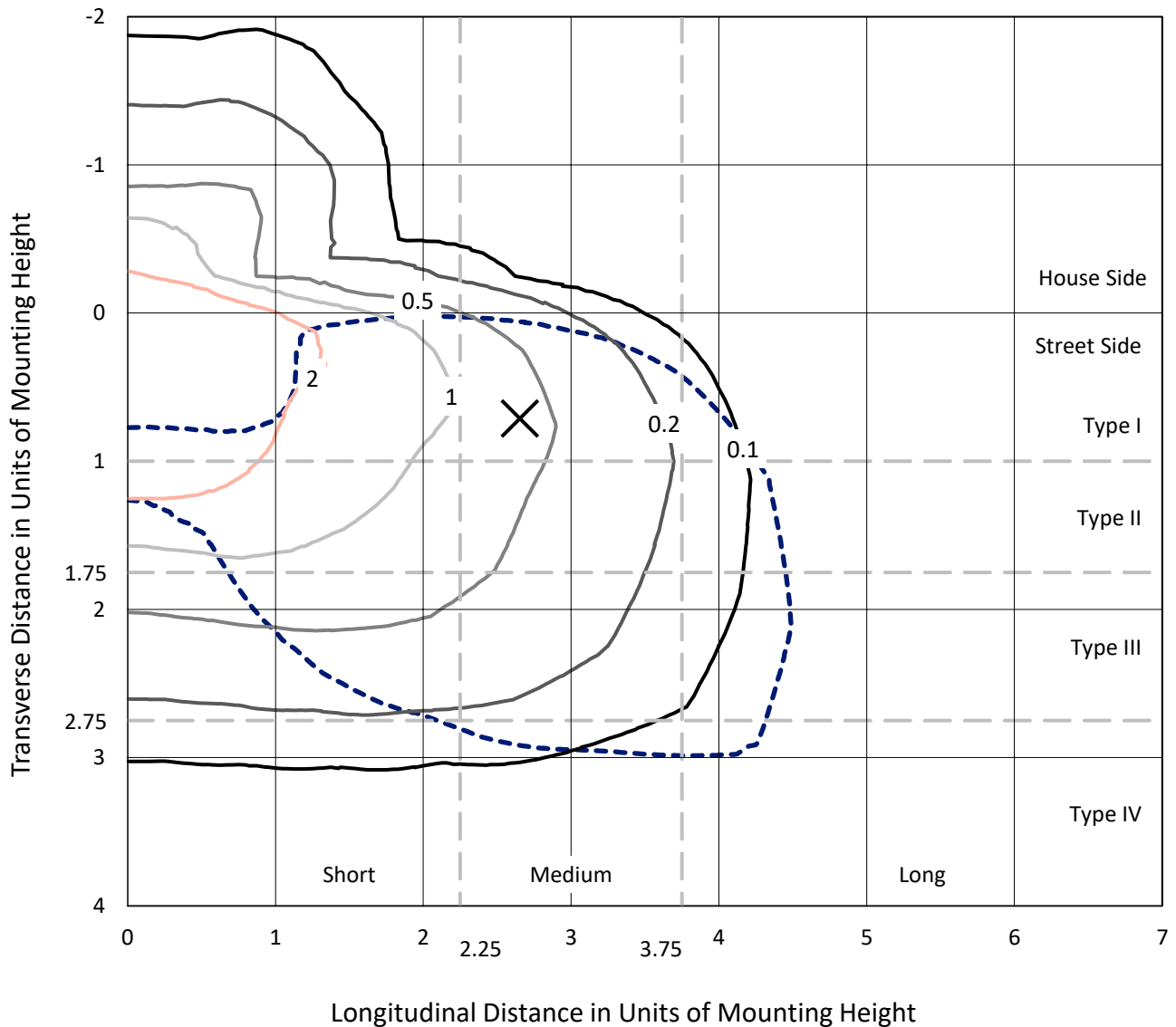
Lumens per Lamp: N/A  
Luminaire Lumens: 5577.5 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): 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

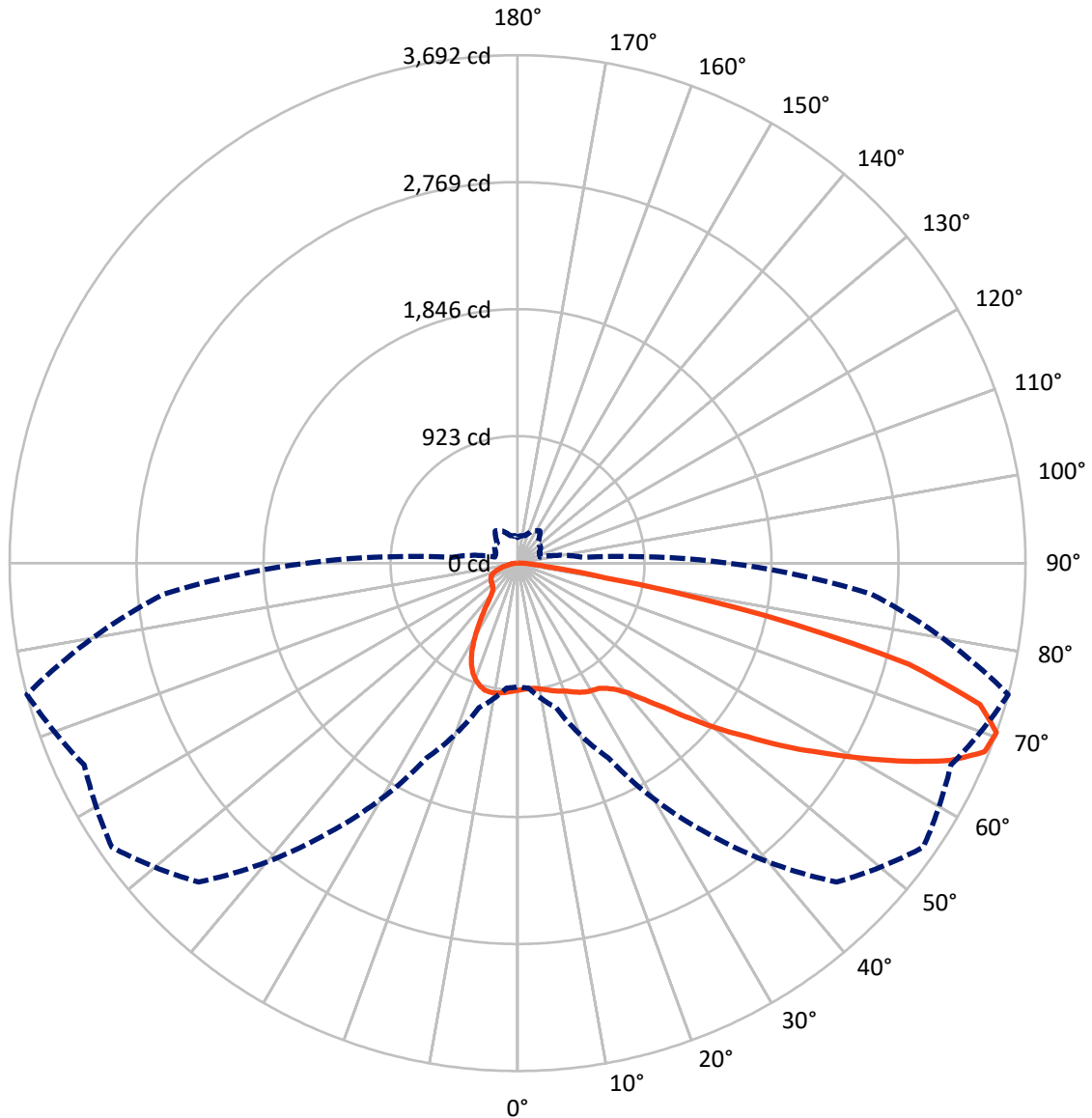
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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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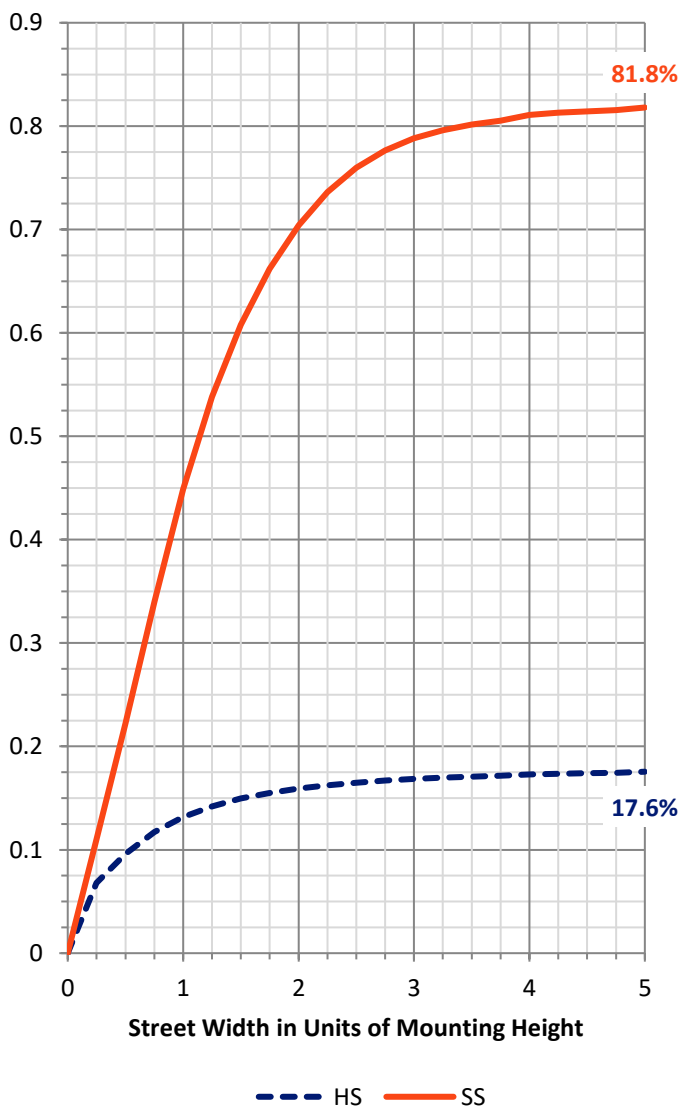
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	992.3	0.0	992.3
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	4585.2	0.0	4585.2
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	5577.5	0.0	5577.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.0	1.5
10°-20°	221.5	4.0
20°-30°	373.2	6.7
30°-40°	566.8	10.2
40°-50°	812.0	14.6
50°-60°	1076.6	19.3
60°-70°	1347.2	24.2
70°-80°	983.8	17.6
80°-90°	113.4	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°	5577.5	100.0
0°-180°	5577.5	100.0



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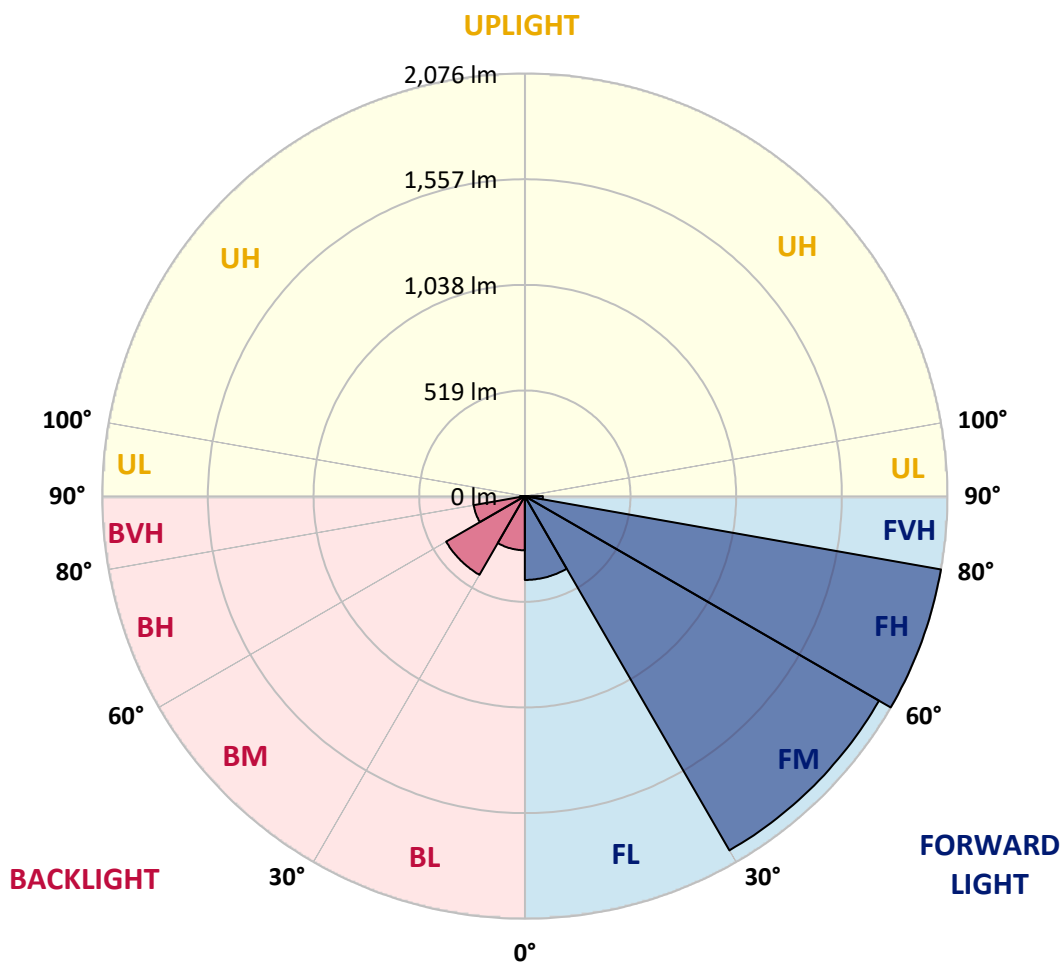
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.7	7.4			
FM (30°-60°)	2009.2	36.0			
FH (60°-80°)	2075.8	37.2			G2/5000
FVH (80°-90°)	88.5	1.6			G1/100
BL (0°-30°)	266.0	4.8	B1/500		
BM (30°-60°)	446.1	8.0	B1/1000		
BH (60°-80°)	255.3	4.6	B1/500		G1/500
BVH (80°-90°)	24.9	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°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	873.3	878.1	882.6	887.0	890.6	900.2	902.2	912.7	915.5	917.9	921.1
5°	824.4	828.0	832.4	839.6	847.2	864.5	876.5	899.4	912.3	916.3	927.5
7.5°	797.9	799.1	805.1	811.1	819.9	836.8	853.3	889.0	914.7	919.1	943.2
10°	778.6	780.2	785.8	794.3	803.1	818.7	839.2	881.7	923.5	930.3	964.4
12.5°	771.8	771.0	777.4	783.0	795.5	815.1	836.4	882.2	935.5	945.2	995.3
15°	799.1	793.9	797.9	795.9	799.9	819.1	844.4	891.0	950.4	962.4	1027.4
17.5°	859.3	854.9	852.1	834.8	823.6	834.4	858.5	903.4	966.0	978.9	1056.3
20°	949.2	936.7	926.3	897.4	866.1	862.5	879.3	915.9	980.9	993.3	1086.8
22.5°	1051.5	1041.5	1024.6	974.1	925.5	901.4	905.8	938.7	1002.6	1016.2	1121.8
25°	1180.7	1180.3	1145.8	1077.6	1004.2	955.6	946.4	975.3	1027.0	1040.3	1150.6
27.5°	1328.0	1318.0	1277.1	1189.2	1096.9	1022.6	1000.9	1012.6	1046.7	1060.3	1173.9
30°	1454.1	1455.3	1413.5	1317.6	1195.6	1088.0	1047.1	1039.5	1059.5	1073.2	1195.6
32.5°	1588.9	1582.1	1544.0	1445.2	1302.4	1158.3	1076.8	1058.7	1072.8	1085.6	1225.7
35°	1715.7	1708.1	1675.2	1568.8	1420.0	1235.7	1116.9	1088.8	1104.1	1118.1	1262.6
37.5°	1836.5	1837.7	1800.4	1698.9	1533.9	1327.2	1176.3	1134.2	1150.6	1166.3	1318.8
40°	1942.1	1936.1	1907.2	1815.7	1652.3	1420.4	1243.4	1196.0	1228.1	1242.6	1389.8
42.5°	1975.8	1975.4	1986.6	1930.5	1776.7	1531.1	1326.8	1292.3	1337.7	1359.3	1476.9
45°	1946.5	1955.3	2020.4	2018.8	1901.2	1658.3	1440.8	1409.5	1474.9	1499.4	1583.3
47.5°	1917.6	1930.9	2019.2	2069.3	2012.7	1798.4	1580.9	1557.6	1651.5	1686.8	1693.7
50°	1875.5	1887.9	1993.1	2076.5	2081.0	1940.1	1762.3	1733.0	1853.8	1889.9	1813.7
52.5°	1828.5	1838.1	1946.9	2071.3	2113.5	2050.9	1940.1	1931.7	2070.5	2099.8	1935.7
55°	1569.2	1610.2	1879.1	2060.1	2135.9	2135.5	2113.1	2140.8	2306.9	2350.7	2071.7
57.5°	1420.4	1442.0	1688.0	2053.7	2178.1	2213.8	2291.7	2351.1	2559.4	2598.7	2221.8
60°	1371.8	1391.1	1592.1	2046.0	2262.0	2336.2	2466.3	2562.6	2830.7	2878.8	2389.6
62.5°	1327.6	1350.9	1553.2	1985.4	2363.5	2530.1	2674.5	2791.3	3116.8	3173.8	2556.6
65°	1237.7	1254.2	1481.8	1934.5	2459.8	2806.6	2975.2	3043.4	3394.2	3458.4	2667.3
67.5°	1082.4	1098.1	1320.8	1817.3	2522.4	3094.4	3303.9	3304.3	3608.5	3661.0	2690.6
70°	899.8	911.9	1088.8	1562.0	2392.0	3279.0	3600.4	3474.8	3669.1	3692.0	2579.8
72.5°	643.4	653.8	797.5	1154.7	1961.4	3129.3	3667.9	3467.6	3522.2	3515.0	2264.8
75°	396.5	416.6	488.4	704.8	1218.9	2462.2	3301.0	3142.1	2957.5	2937.4	1705.3
77.5°	258.5	268.9	330.3	415.8	537.8	1413.5	2507.2	2355.9	1867.4	1844.2	916.7
80°	155.3	172.6	216.3	261.3	243.6	540.6	1431.6	1170.3	659.8	652.6	281.7
82.5°	83.5	99.1	152.5	161.7	136.9	191.0	518.5	380.5	211.1	208.7	105.6
85°	66.2	73.8	109.6	102.3	77.5	96.7	202.3	158.5	108.4	106.0	39.7
87.5°	40.1	50.6	83.1	69.0	38.5	34.9	92.7	75.1	51.0	47.4	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°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	927.1	929.1	931.1	927.1	928.7	926.7	926.7	926.7	921.5	919.9	924.7
5°	935.9	938.7	940.3	927.9	920.3	909.0	899.8	885.8	877.7	872.5	872.5
7.5°	954.0	957.2	950.0	922.3	895.4	865.3	834.4	808.7	790.2	782.2	784.6
10°	980.5	981.7	957.6	906.6	849.2	793.5	749.7	715.6	692.7	681.1	679.5
12.5°	1011.4	1006.2	959.2	872.1	787.0	712.0	658.6	614.5	585.2	573.9	568.3
15°	1041.9	1029.4	953.2	830.8	716.4	626.1	557.9	516.1	498.1	492.8	490.8
17.5°	1069.2	1045.9	933.1	771.4	634.5	525.8	475.6	460.7	462.7	467.6	469.6
20°	1094.1	1058.3	904.2	700.7	532.2	447.5	435.1	448.7	459.9	467.2	468.4
22.5°	1121.4	1070.4	864.1	614.9	448.3	411.4	426.2	441.9	453.1	460.3	461.5
25°	1142.2	1070.0	807.5	512.9	395.3	401.7	419.4	433.4	441.9	447.1	446.7
27.5°	1155.5	1060.3	733.3	429.0	374.5	394.9	411.8	421.0	425.8	429.8	429.4
30°	1159.5	1041.9	639.7	367.2	364.8	388.5	401.3	407.0	410.6	414.6	414.6
32.5°	1167.5	1013.4	536.6	332.7	357.6	382.1	389.7	394.1	391.3	381.3	379.3
35°	1176.3	981.7	439.1	316.7	350.8	377.7	384.9	373.2	342.7	338.7	337.1
37.5°	1193.6	952.4	356.4	305.4	349.2	380.1	386.1	339.5	313.8	301.4	299.4
40°	1222.9	923.1	301.0	297.4	351.2	390.5	370.0	323.5	280.9	257.3	253.2
42.5°	1261.4	887.4	269.7	293.4	356.8	407.4	364.4	300.6	254.0	238.0	235.6
45°	1306.0	840.0	254.9	292.6	363.6	415.8	366.0	282.1	242.0	229.6	228.8
47.5°	1352.1	793.5	248.4	291.8	372.0	412.2	344.0	276.5	237.2	233.6	236.0
50°	1401.9	740.5	243.2	289.8	378.9	412.2	331.9	275.3	238.8	246.8	254.9
52.5°	1448.4	695.9	237.2	283.7	381.7	405.0	328.3	279.7	241.2	239.2	241.6
55°	1505.0	673.1	234.0	275.3	376.5	382.9	323.9	291.8	243.2	226.8	226.8
57.5°	1569.7	668.2	229.2	264.1	359.6	352.4	323.5	299.0	238.0	222.7	219.9
60°	1647.5	678.7	223.1	250.0	339.1	328.7	320.7	299.0	229.6	215.9	217.1
62.5°	1710.5	677.5	219.5	237.6	311.8	304.2	315.5	295.0	226.4	215.1	214.7
65°	1725.4	651.8	209.1	221.5	278.1	274.5	309.8	285.0	221.9	210.7	207.5
67.5°	1675.2	593.6	193.4	200.3	242.4	242.8	299.8	271.7	215.9	208.3	203.1
70°	1532.7	480.0	170.2	174.6	203.9	209.1	285.0	256.1	205.9	197.9	185.4
72.5°	1282.7	345.2	143.3	144.5	162.1	175.8	259.3	234.8	191.0	172.2	158.9
75°	949.6	229.2	116.8	115.2	121.6	142.9	221.5	211.1	171.8	142.9	136.1
77.5°	502.1	135.7	89.9	90.3	86.3	109.6	175.8	183.4	152.5	120.4	113.6
80°	171.8	81.5	64.6	67.4	61.0	78.3	130.4	152.5	130.4	100.3	88.7
82.5°	78.7	49.8	46.2	48.2	43.7	53.0	89.5	115.6	103.9	73.0	59.0
85°	39.7	29.7	29.7	32.5	28.9	27.3	49.4	76.7	76.3	50.2	43.3
87.5°	16.5	14.4	13.6	15.7	13.6	10.4	14.0	27.7	40.1	30.1	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)