

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: P674608

Luminaire Tested: **CCP-SA-2A-830-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674608  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-830-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T2R distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

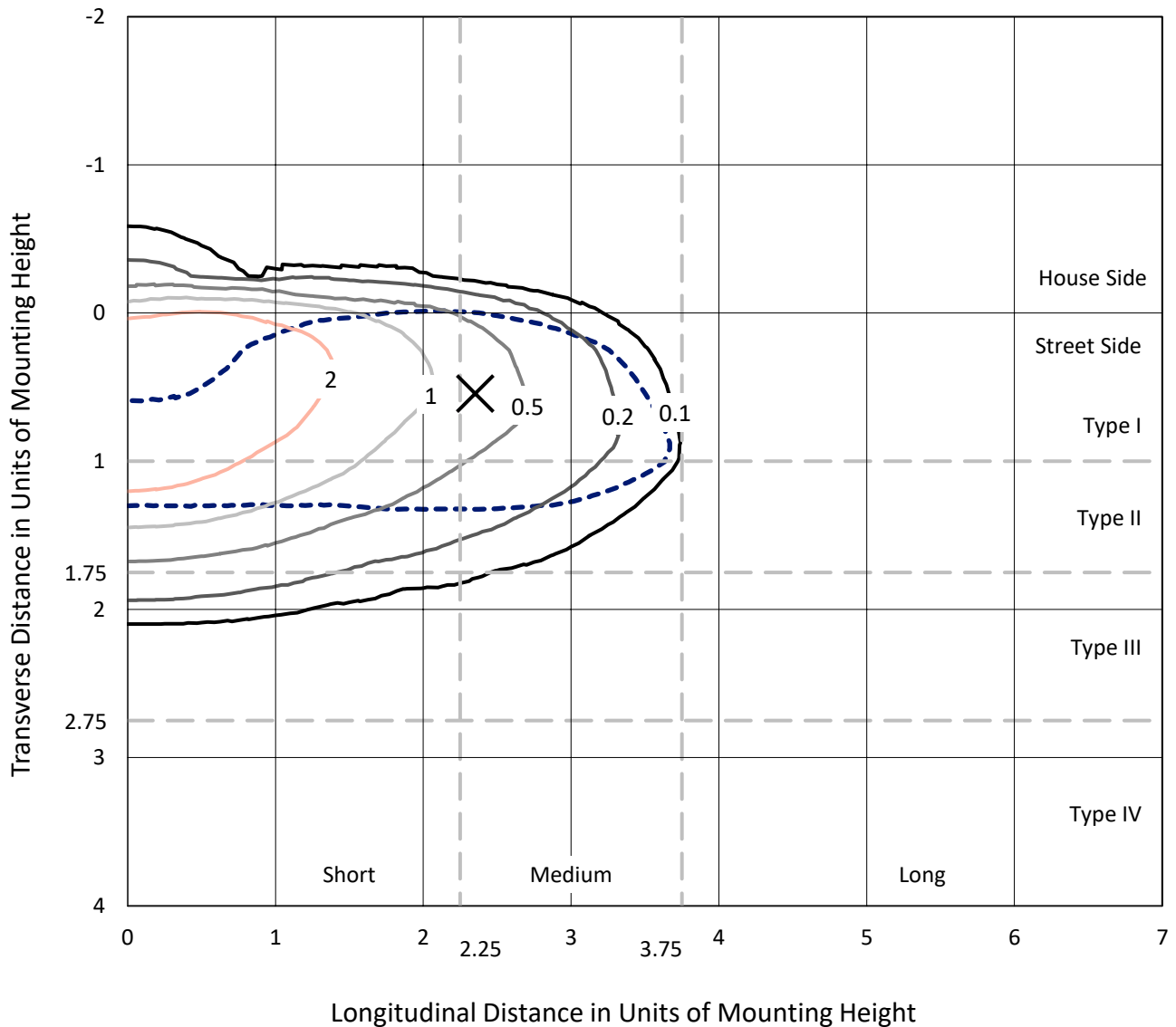
Lumens per Lamp: N/A  
Luminaire Lumens: 3520.4 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

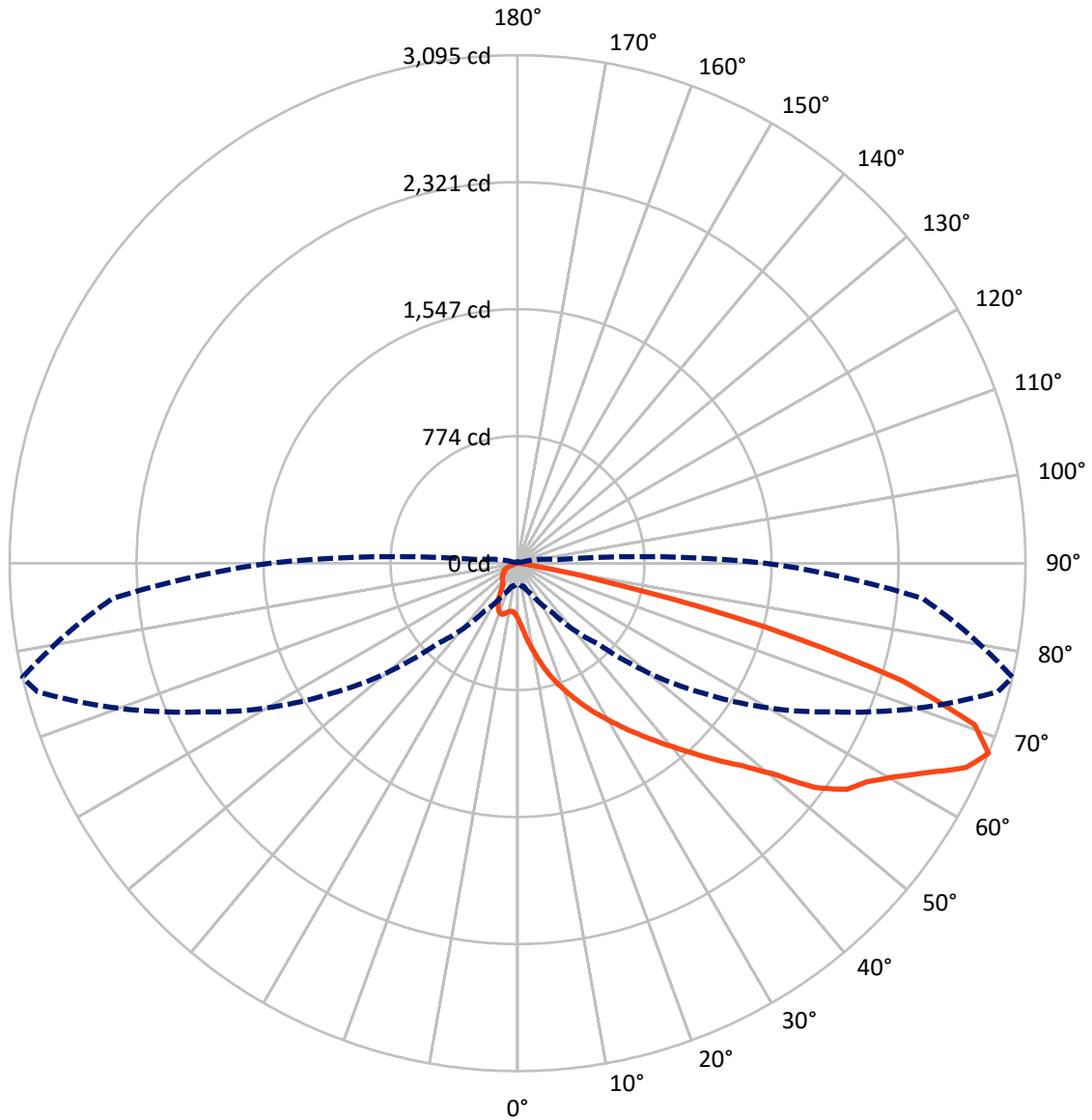
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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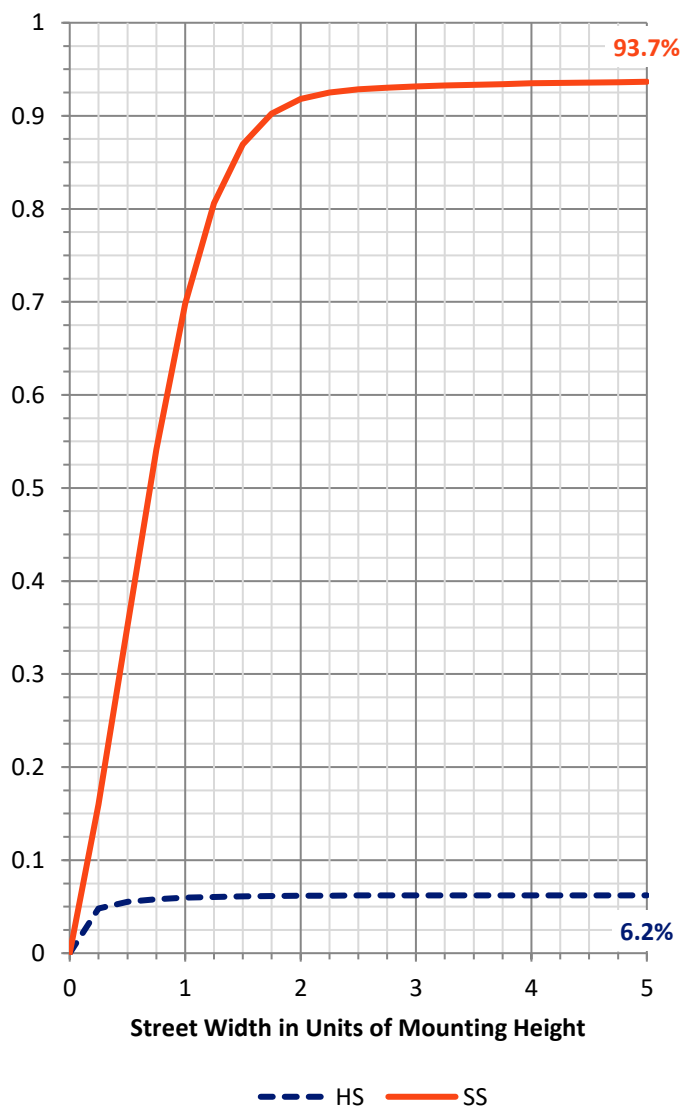
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	220.0	0.0	220.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3300.4	0.0	3300.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	3520.4	0.0	3520.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	1.1
10°-20°	146.5	4.2
20°-30°	286.3	8.1
30°-40°	500.5	14.2
40°-50°	730.0	20.7
50°-60°	853.6	24.2
60°-70°	692.0	19.7
70°-80°	260.0	7.4
80°-90°	11.8	0.3
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°	3520.4	100.0
0°-180°	3520.4	100.0



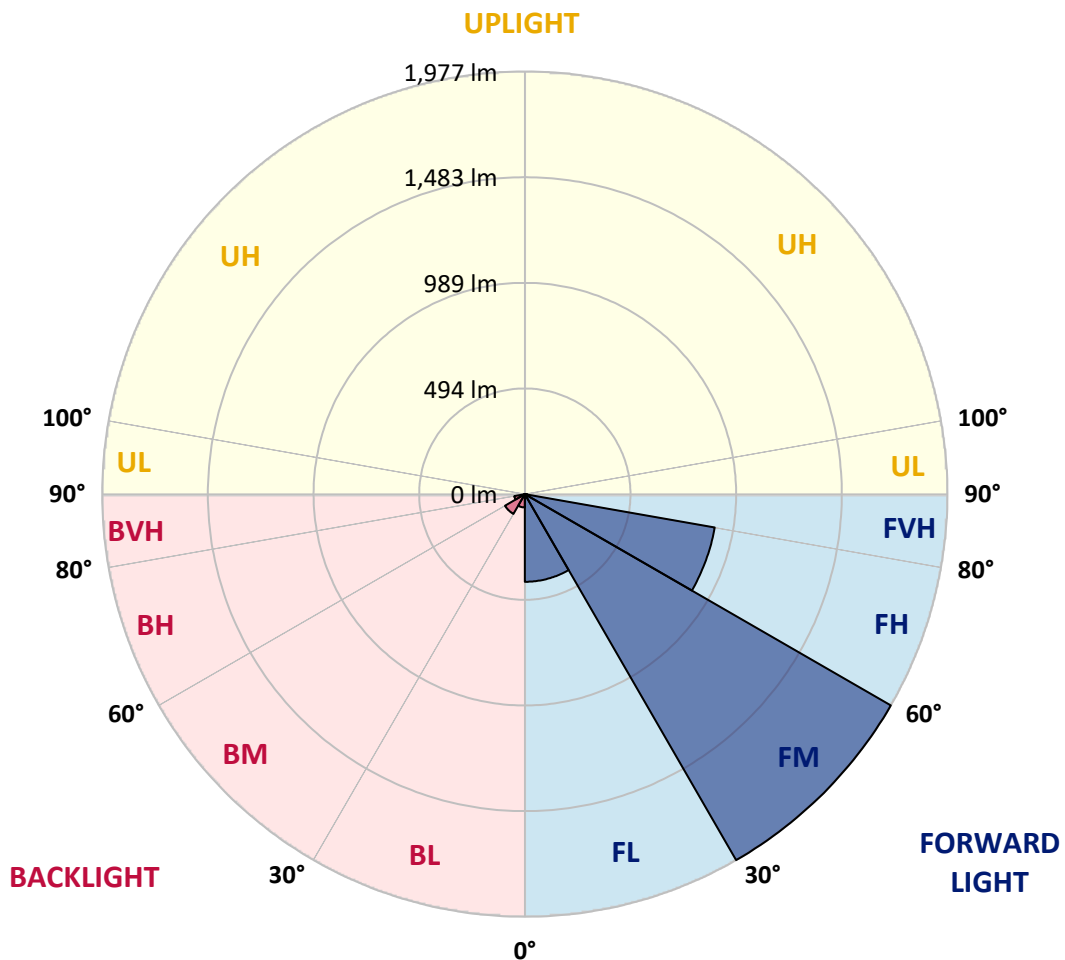
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.1	11.6			
FM (30°-60°)	1977.1	56.2			
FH (60°-80°)	902.0	25.6			G1/1800
FVH (80°-90°)	11.1	0.3			G1/100
BL (0°-30°)	62.4	1.8	B0/110		
BM (30°-60°)	107.0	3.0	B0/220		
BH (60°-80°)	49.9	1.4	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2
2.5°	506.3	487.8	491.3	483.7	473.8	451.0	426.8	402.7	381.0	376.3	354.7
5°	648.3	642.6	636.6	631.5	610.8	582.2	538.7	483.4	433.5	424.9	380.1
7.5°	758.6	750.0	755.4	739.8	718.2	690.6	635.3	576.2	499.3	486.6	417.0
10°	839.9	835.2	837.7	830.4	819.9	792.3	737.6	663.6	574.6	550.4	458.3
12.5°	901.0	901.9	913.0	913.7	905.1	882.5	824.7	747.5	642.9	621.3	504.0
15°	945.5	946.4	960.1	974.7	984.5	972.8	920.4	833.9	723.3	693.8	552.0
17.5°	952.8	953.4	977.6	1007.1	1037.6	1047.8	1007.4	919.7	796.7	763.0	607.0
20°	957.5	962.9	984.5	1018.6	1066.9	1098.3	1076.4	1002.0	867.9	828.8	661.0
22.5°	1015.4	1015.4	1028.1	1052.2	1090.7	1140.0	1135.5	1077.7	937.2	898.4	714.7
25°	1138.0	1138.0	1125.7	1119.3	1140.0	1178.7	1189.8	1158.4	1016.3	970.6	771.3
27.5°	1300.4	1300.4	1281.1	1234.3	1216.5	1232.8	1244.5	1228.6	1089.4	1044.3	831.1
30°	1468.9	1474.6	1440.9	1381.5	1319.2	1306.8	1295.4	1291.9	1167.3	1116.4	891.8
32.5°	1637.9	1637.3	1595.4	1521.3	1440.0	1396.1	1358.9	1354.8	1249.9	1200.0	949.3
35°	1773.0	1773.3	1729.2	1653.2	1559.1	1503.2	1443.5	1424.1	1340.5	1284.9	1017.9
37.5°	1890.0	1883.3	1835.6	1763.5	1675.8	1617.9	1543.6	1493.0	1434.2	1377.7	1086.6
40°	1957.0	1948.1	1901.7	1833.1	1766.7	1722.5	1657.0	1576.3	1537.2	1476.2	1164.7
42.5°	1966.9	1959.2	1928.4	1887.1	1832.8	1794.0	1776.5	1670.4	1645.3	1590.0	1258.2
45°	1939.2	1926.8	1916.7	1895.0	1879.8	1861.0	1884.9	1770.5	1769.2	1714.2	1350.7
47.5°	1870.6	1853.7	1856.3	1880.1	1897.3	1914.1	1988.5	1901.7	1894.1	1842.6	1472.1
50°	1753.3	1745.0	1773.0	1820.0	1888.1	1955.4	2091.8	2035.8	2066.0	2017.7	1639.5
52.5°	1515.0	1525.1	1608.7	1721.8	1839.4	1974.8	2188.7	2236.0	2313.3	2273.5	1808.0
55°	1228.9	1225.1	1336.7	1537.5	1725.3	1962.4	2231.0	2354.0	2475.4	2433.7	1901.7
57.5°	990.0	996.6	1071.9	1270.6	1531.8	1866.8	2240.8	2415.6	2540.5	2512.9	1988.5
60°	743.0	749.4	818.0	990.9	1274.4	1667.2	2159.5	2437.2	2662.9	2641.9	2127.0
62.5°	472.9	481.2	550.1	718.2	974.1	1357.0	1976.7	2414.7	2790.6	2808.1	2316.1
65°	232.6	239.9	290.8	419.5	651.2	1014.7	1721.8	2328.5	2953.3	3003.2	2467.7
67.5°	128.7	132.2	149.7	213.6	363.2	696.0	1383.7	2144.5	3028.0	3094.7	2477.9
70°	100.1	101.1	107.7	124.6	177.0	408.4	984.2	1838.2	2873.2	2954.0	2271.6
72.5°	84.2	85.5	88.7	94.4	110.6	212.6	618.4	1420.6	2417.5	2454.1	1757.4
75°	61.7	63.6	72.5	77.5	87.4	129.0	272.7	853.6	1597.6	1561.7	983.3
77.5°	51.8	53.4	55.6	62.9	72.1	88.0	95.7	357.8	650.2	565.4	258.1
80°	35.3	37.2	43.2	47.0	61.0	58.2	39.7	96.0	130.6	106.5	49.6
82.5°	25.1	26.7	29.9	38.5	44.2	30.8	21.6	29.2	31.5	29.9	16.2
85°	7.9	10.2	21.6	31.8	23.8	10.5	13.7	11.1	9.9	9.5	6.4
87.5°	1.6	1.6	10.8	12.7	9.5	5.4	4.8	3.5	4.4	4.4	3.5
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°	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2
2.5°	344.5	330.2	309.5	290.2	270.4	256.5	246.6	236.8	232.9	231.4	227.2
5°	359.8	332.4	291.4	258.4	234.2	219.0	209.7	201.8	196.7	195.1	192.9
7.5°	381.7	342.3	283.5	245.3	221.2	204.7	189.7	172.6	158.9	153.5	151.3
10°	405.5	357.2	284.7	242.8	210.7	174.5	141.1	113.5	101.4	96.9	93.8
12.5°	440.5	373.7	290.2	239.9	179.2	124.6	90.3	78.8	76.0	75.3	74.7
15°	475.4	396.9	299.1	220.9	133.8	84.9	75.0	70.9	69.3	67.7	67.7
17.5°	510.7	419.2	302.5	183.7	92.5	73.4	68.3	64.8	62.3	61.0	60.1
20°	550.4	442.7	292.4	138.2	74.0	67.1	61.3	57.2	55.0	53.7	52.8
22.5°	593.3	465.9	270.1	96.3	67.4	60.4	55.0	50.8	48.6	47.4	47.0
25°	633.7	485.9	234.5	72.5	60.7	54.0	48.9	45.4	43.9	42.6	42.3
27.5°	675.3	503.1	188.1	63.9	55.3	48.9	43.9	41.0	39.4	38.5	38.1
30°	716.0	514.8	140.2	58.5	50.5	44.2	39.7	37.5	35.9	35.0	34.6
32.5°	758.0	521.5	94.7	53.7	45.8	40.0	36.2	34.0	33.1	32.1	32.1
35°	798.3	520.6	68.3	49.3	41.9	36.2	32.7	31.1	30.8	29.9	29.9
37.5°	842.5	513.9	58.2	45.1	37.8	32.7	29.9	28.9	28.6	28.0	27.6
40°	892.7	498.9	53.1	41.9	34.3	29.9	27.3	26.7	26.4	25.7	25.7
42.5°	947.7	479.6	50.2	38.5	31.5	27.0	25.1	24.2	23.8	23.2	23.2
45°	1011.6	461.1	48.3	35.0	28.9	24.8	22.9	21.9	21.6	21.0	21.0
47.5°	1098.6	450.6	45.1	31.8	26.1	22.6	20.7	20.0	19.4	18.8	18.8
50°	1218.4	438.2	41.0	28.6	23.8	20.3	19.1	18.1	17.8	17.2	17.2
52.5°	1317.0	411.9	36.9	25.4	21.3	18.8	17.5	16.8	16.2	15.9	15.9
55°	1351.6	381.0	32.7	22.9	19.4	17.5	16.2	15.6	15.3	14.9	14.9
57.5°	1406.9	371.2	28.9	20.3	17.5	16.2	14.9	14.6	14.3	14.0	13.7
60°	1501.3	376.9	25.4	18.1	15.9	14.6	13.7	13.3	12.7	12.1	12.1
62.5°	1592.8	369.9	21.6	15.9	13.7	13.0	12.1	11.4	10.2	9.2	8.6
65°	1615.1	323.2	18.8	13.3	11.4	10.8	9.9	8.6	6.7	5.4	5.4
67.5°	1507.3	245.7	16.2	11.4	9.5	8.9	7.0	5.7	4.1	3.2	3.2
70°	1243.9	155.7	13.3	8.9	7.9	6.0	4.4	4.1	2.9	2.5	2.2
72.5°	897.5	85.2	11.1	7.3	5.7	3.8	3.2	2.5	1.9	1.3	1.3
75°	454.5	40.0	8.3	5.7	3.8	2.5	1.9	1.3	1.3	1.0	1.0
77.5°	128.7	18.4	5.4	3.8	2.5	1.6	1.3	1.0	1.0	0.6	0.6
80°	25.4	9.2	3.5	2.5	1.9	1.3	1.0	0.6	0.6	0.3	0.3
82.5°	9.2	4.8	2.5	1.9	1.6	1.3	0.6	0.3	0.3	0.0	0.0
85°	4.8	2.5	1.9	1.6	1.3	1.0	0.6	0.3	0.0	0.0	0.0
87.5°	2.5	1.9	1.6	1.6	1.3	1.0	0.6	0.3	0.0	0.0	0.0
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)