

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: P672193

Luminaire Tested: **CCP-SA-2A-850-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672193  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-850-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

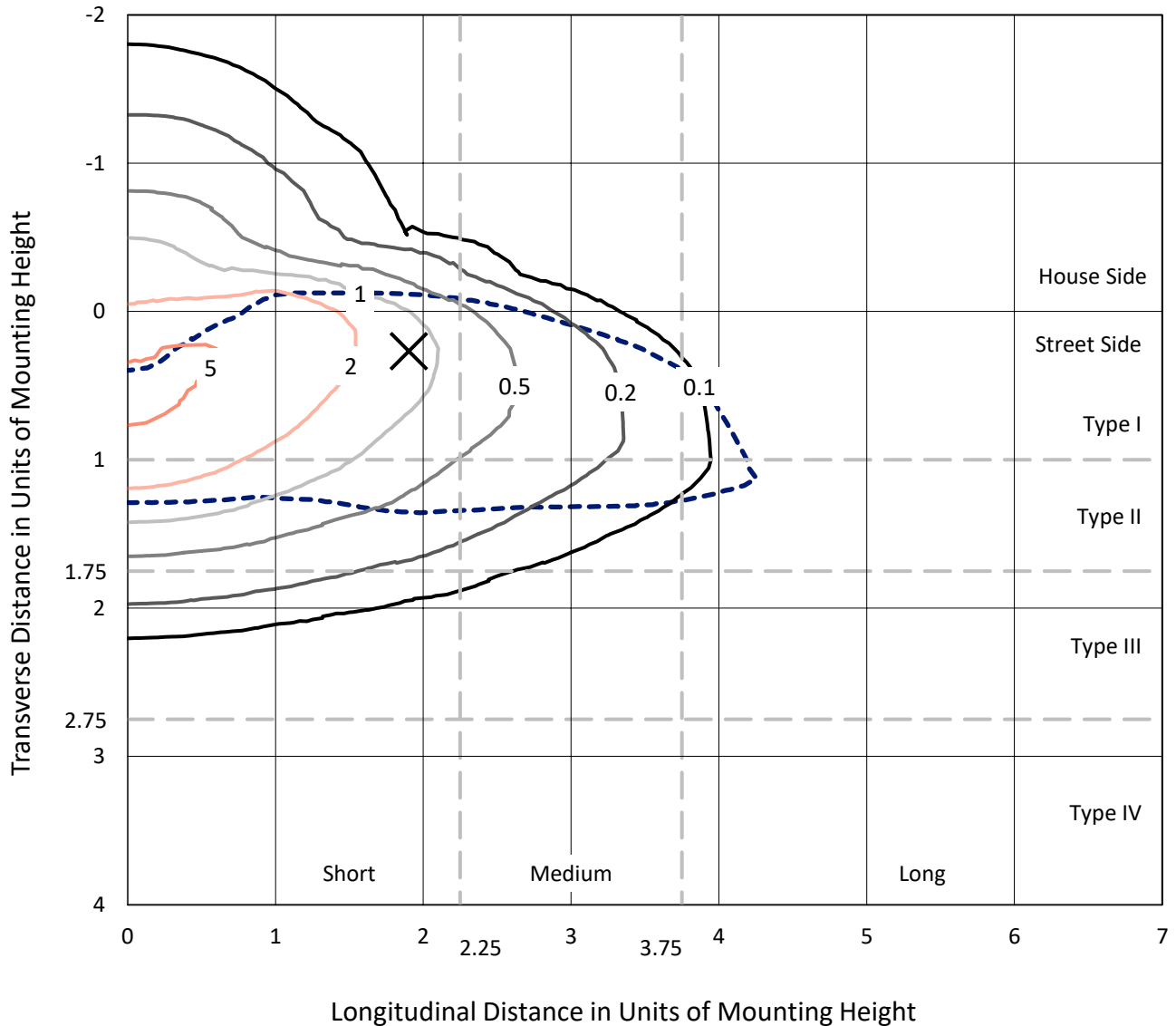
Lumens per Lamp: N/A  
Luminaire Lumens: 4849.8 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

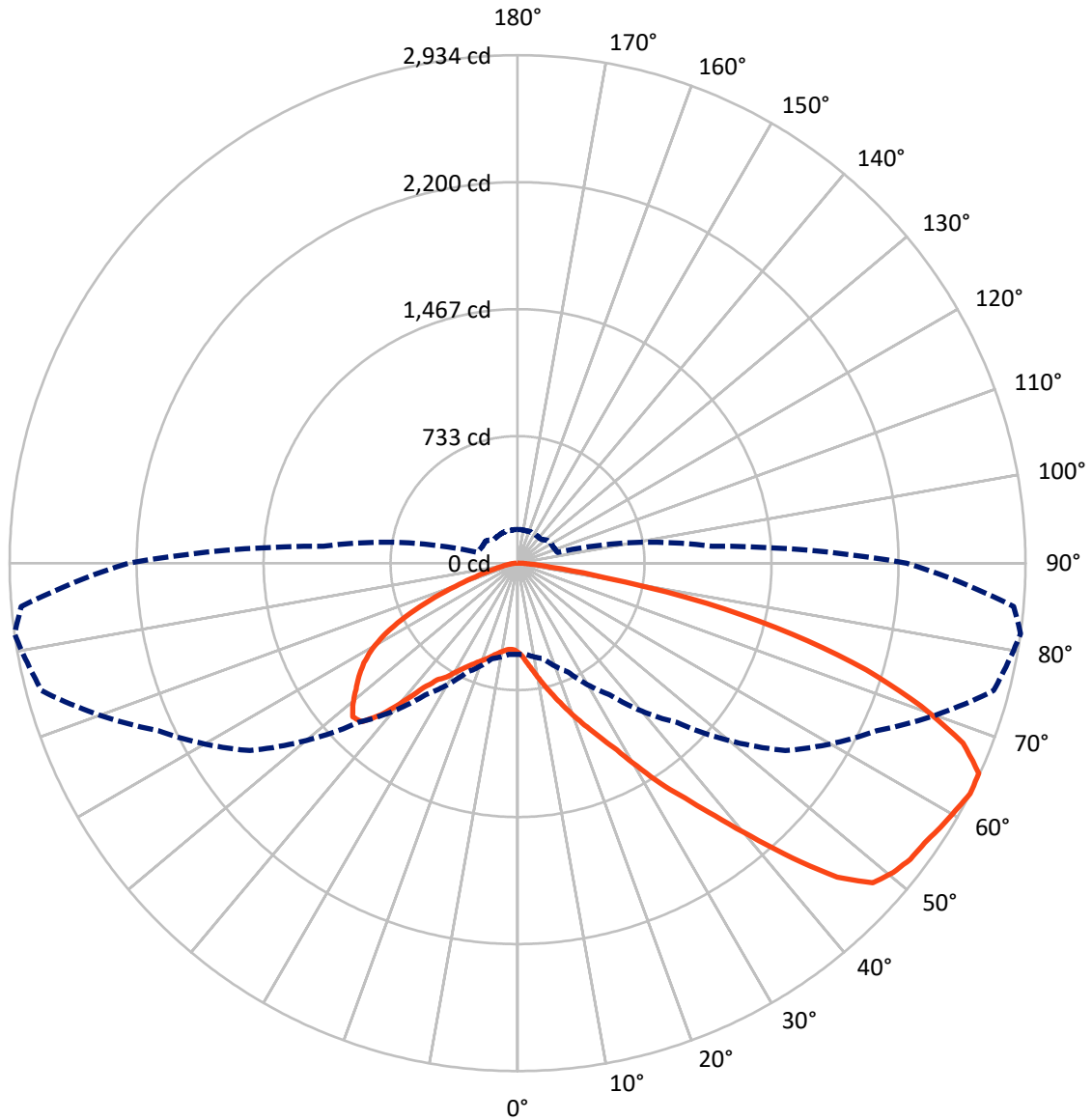
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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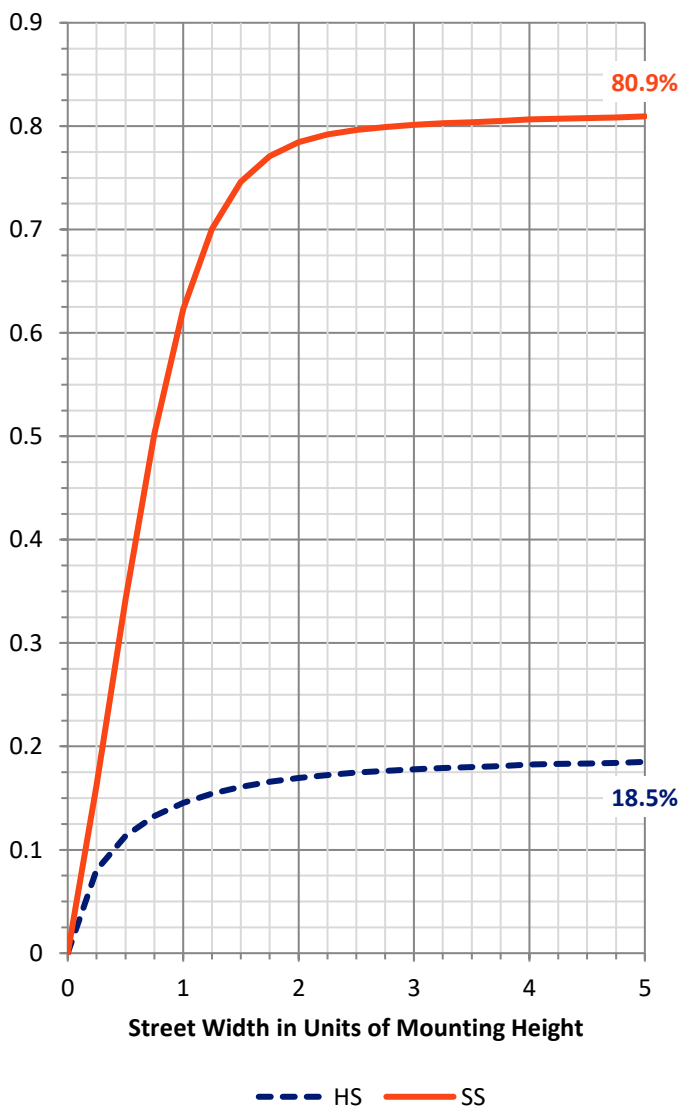
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	913.7	0.0	913.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3936.1	0.0	3936.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4849.8	0.0	4849.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	1.2
10°-20°	215.3	4.4
20°-30°	445.8	9.2
30°-40°	756.6	15.6
40°-50°	1030.4	21.2
50°-60°	1042.9	21.5
60°-70°	822.0	16.9
70°-80°	404.9	8.3
80°-90°	74.9	1.5
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°	4849.8	100.0
0°-180°	4849.8	100.0



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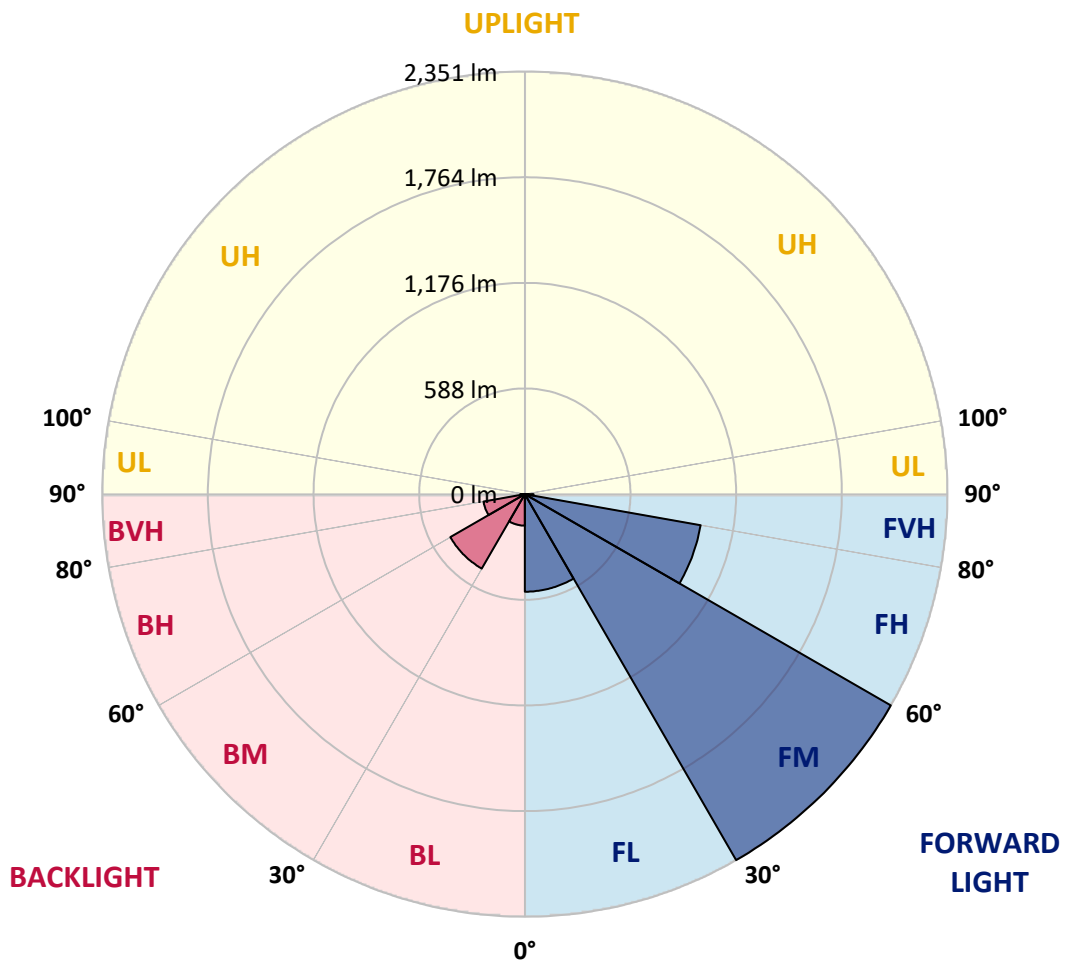
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.8	11.2			
FM (30°-60°)	2351.3	48.5			
FH (60°-80°)	993.3	20.5			G1/1800
FVH (80°-90°)	48.7	1.0			G1/100
BL (0°-30°)	175.3	3.6	B1/500		
BM (30°-60°)	478.6	9.9	B1/1000		
BH (60°-80°)	233.6	4.8	B1/500		G1/500
BVH (80°-90°)	26.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7
2.5°	686.8	676.4	670.8	664.5	647.0	635.9	614.9	590.5	562.2	538.1	533.6
5°	831.8	821.3	822.7	807.3	781.8	758.1	719.0	672.9	619.1	577.9	563.6
7.5°	934.1	922.5	925.3	919.1	898.4	872.3	822.7	763.3	684.7	623.6	600.6
10°	1002.5	1003.9	1006.0	1003.6	990.3	971.8	922.5	856.9	759.1	677.8	646.3
12.5°	1080.0	1083.9	1083.2	1084.2	1077.2	1062.6	1014.4	952.6	838.4	736.1	695.2
15°	1178.8	1175.0	1178.1	1182.7	1175.0	1158.9	1116.3	1043.0	921.5	801.0	750.4
17.5°	1287.1	1279.1	1287.4	1282.9	1277.3	1266.8	1220.0	1141.8	1007.4	871.2	811.9
20°	1380.7	1375.4	1380.0	1380.7	1381.7	1379.6	1331.4	1248.3	1097.5	947.7	878.2
22.5°	1485.8	1483.3	1482.6	1483.0	1484.0	1486.5	1453.7	1365.0	1197.3	1028.0	949.8
25°	1632.8	1630.3	1614.3	1596.5	1586.0	1593.7	1576.6	1497.3	1307.7	1118.1	1028.3
27.5°	1797.6	1793.8	1772.5	1727.4	1693.9	1699.5	1697.7	1643.3	1434.8	1221.4	1122.6
30°	1968.7	1959.3	1929.9	1866.7	1814.0	1804.2	1809.1	1791.0	1594.7	1358.7	1253.9
32.5°	2121.3	2103.8	2065.1	2001.2	1938.3	1910.0	1910.7	1918.8	1768.6	1518.6	1391.5
35°	2214.5	2203.0	2174.0	2109.4	2039.2	2020.4	2015.1	2055.3	1928.2	1666.7	1514.8
37.5°	2264.8	2253.6	2222.6	2170.5	2117.4	2109.8	2119.5	2181.7	2109.4	1851.4	1682.4
40°	2255.7	2243.9	2223.6	2187.3	2152.4	2158.3	2201.6	2297.6	2307.4	2072.4	1921.2
42.5°	2181.0	2168.4	2166.7	2164.2	2147.8	2174.0	2252.2	2382.5	2489.3	2327.7	2210.3
45°	2049.0	2041.3	2050.4	2092.3	2112.9	2163.5	2276.0	2423.7	2649.3	2587.1	2483.7
47.5°	1881.7	1877.2	1897.8	1964.2	2030.9	2131.4	2291.7	2434.9	2759.2	2759.2	2662.9
50°	1694.6	1692.8	1720.1	1816.5	1920.9	2072.4	2289.9	2445.3	2807.4	2809.9	2726.1
52.5°	1433.4	1442.5	1515.1	1642.2	1784.0	1979.9	2265.5	2474.7	2834.7	2840.3	2768.3
55°	1132.4	1141.1	1250.8	1421.9	1603.4	1867.4	2192.5	2465.9	2839.9	2852.5	2792.4
57.5°	904.0	905.8	974.2	1177.4	1402.3	1723.6	2108.4	2408.0	2824.5	2879.4	2829.4
60°	707.4	713.0	758.8	919.7	1169.1	1538.2	2014.4	2350.7	2833.3	2904.9	2863.0
62.5°	526.9	528.3	570.9	695.6	928.8	1301.8	1887.0	2289.6	2845.5	2933.5	2876.6
65°	343.2	342.9	384.1	496.5	693.8	1046.5	1686.9	2193.9	2846.5	2927.2	2814.1
67.5°	218.2	219.6	237.4	308.3	464.4	789.9	1414.5	2016.2	2797.0	2775.0	2586.4
70°	177.0	177.4	183.0	201.5	282.8	539.8	1063.3	1738.2	2640.2	2471.5	2248.0
72.5°	157.8	158.2	161.0	163.1	188.6	324.4	697.7	1411.4	2361.5	2106.6	1865.0
75°	141.8	141.8	143.5	141.4	154.7	203.6	396.0	1061.2	1945.0	1640.5	1409.0
77.5°	124.3	124.0	124.0	122.9	133.7	148.8	198.3	740.6	1400.9	1118.8	913.8
80°	105.5	104.8	105.8	105.1	115.6	112.8	115.6	457.1	759.5	513.0	389.0
82.5°	82.1	82.1	85.2	85.9	95.3	81.7	81.4	216.8	288.4	191.7	143.5
85°	42.9	48.2	64.9	67.7	71.9	51.3	59.7	101.3	115.6	73.3	52.4
87.5°	12.9	13.6	39.8	44.7	44.3	25.8	36.7	48.9	54.1	32.5	21.3
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°	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7
2.5°	522.0	509.8	484.0	460.9	443.5	426.7	415.2	409.2	401.6	402.6	400.2
5°	538.1	513.0	467.2	430.2	405.4	386.5	375.0	369.1	363.5	360.7	362.8
7.5°	562.2	523.1	459.2	414.5	388.6	372.6	366.3	364.5	363.2	362.1	363.8
10°	593.3	540.9	457.8	408.9	385.1	375.4	372.9	371.9	370.5	369.1	370.1
12.5°	625.0	560.4	462.7	410.3	390.7	383.4	380.3	378.9	375.4	373.6	374.0
15°	664.8	584.2	469.3	415.9	398.1	388.6	384.5	380.6	375.0	372.6	373.6
17.5°	707.4	612.5	478.4	421.1	400.9	389.3	381.0	375.4	369.8	366.3	366.6
20°	755.6	640.4	486.4	422.9	399.5	383.4	373.3	366.6	359.3	355.5	354.4
22.5°	805.6	669.7	492.7	421.5	391.8	373.3	361.8	353.7	345.0	339.1	339.4
25°	866.3	709.5	497.9	416.6	381.7	360.0	347.1	337.0	327.9	322.3	322.6
27.5°	939.3	754.6	504.2	408.9	369.4	345.7	330.7	320.6	311.8	306.6	305.9
30°	1036.7	813.2	511.2	399.5	354.1	330.0	315.3	304.8	296.5	291.6	291.6
32.5°	1146.4	884.8	516.1	388.3	337.0	313.2	299.9	291.6	285.3	278.6	277.9
35°	1241.7	940.4	531.1	379.6	321.9	297.5	288.4	282.5	273.1	266.8	265.7
37.5°	1381.7	1038.1	575.5	377.1	303.8	285.3	283.5	272.4	261.5	249.7	248.6
40°	1607.3	1207.5	627.1	365.2	284.9	278.6	276.9	261.9	236.4	229.1	227.7
42.5°	1894.3	1411.4	632.7	330.7	271.7	273.1	267.8	238.5	227.3	221.7	220.3
45°	2153.4	1576.9	600.9	295.4	261.9	264.7	253.9	229.8	223.5	218.2	216.8
47.5°	2299.0	1627.9	540.9	268.9	254.6	257.3	231.5	225.6	219.3	214.0	212.7
50°	2339.9	1583.5	471.0	253.5	249.0	250.0	225.6	222.1	216.5	212.3	210.2
52.5°	2347.9	1517.2	406.4	244.4	244.8	235.3	220.3	217.5	214.0	207.4	205.0
55°	2351.4	1457.5	348.5	238.8	242.0	216.5	214.7	212.7	209.9	202.9	201.5
57.5°	2360.5	1381.0	303.1	234.7	238.5	207.8	208.5	207.1	203.6	200.4	199.7
60°	2334.6	1275.2	268.2	230.5	233.6	200.4	201.1	201.8	198.7	198.0	197.6
62.5°	2248.0	1125.1	238.5	224.9	223.5	193.1	193.1	195.9	193.1	194.1	194.1
65°	2069.6	933.7	212.0	214.4	207.8	185.1	184.7	189.6	185.4	190.0	190.3
67.5°	1765.5	706.7	184.7	198.0	191.4	176.7	178.1	181.9	176.3	185.8	185.8
70°	1397.4	480.8	156.4	174.9	174.6	167.3	171.8	171.4	165.2	179.1	176.7
72.5°	1040.9	308.7	127.5	146.7	152.6	157.1	165.5	158.2	152.2	160.3	152.9
75°	727.3	193.4	100.6	115.9	127.1	146.0	157.8	143.2	134.4	132.0	129.9
77.5°	435.4	123.6	79.3	88.3	99.2	132.7	148.1	127.5	114.2	112.8	108.6
80°	200.8	80.7	60.4	66.0	70.5	113.8	134.8	108.9	92.9	91.5	86.6
82.5°	90.8	53.1	45.0	47.1	47.5	90.4	113.8	86.2	70.9	114.9	99.5
85°	42.3	34.2	29.3	27.9	28.3	60.4	82.8	59.4	80.7	62.9	47.8
87.5°	18.2	17.5	15.0	11.9	10.8	12.9	31.8	24.8	35.3	14.0	9.4
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)