

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: P672227

Luminaire Tested: **CCP-SA-2A-727-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672227  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-727-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T3R distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

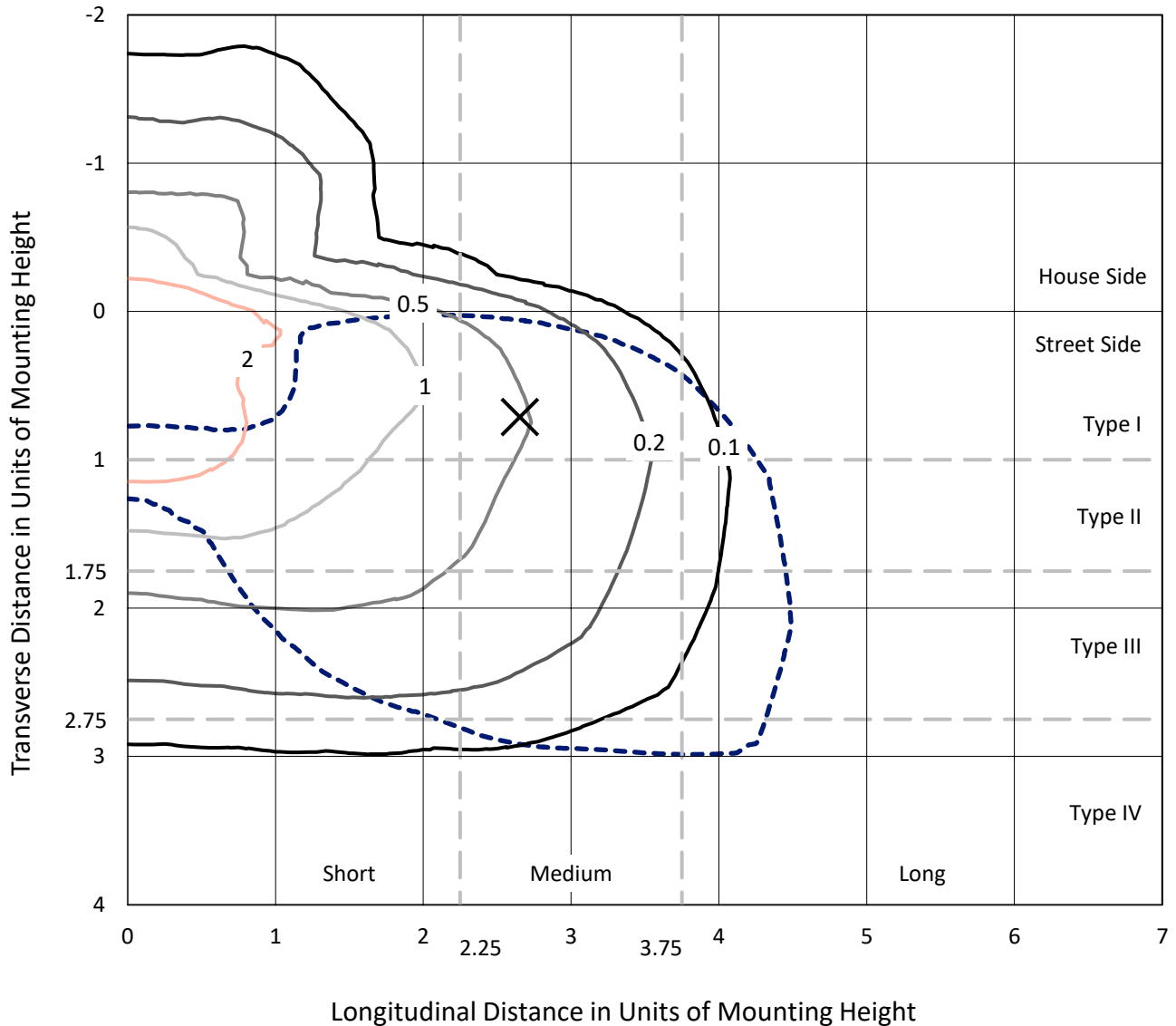
Lumens per Lamp: N/A  
Luminaire Lumens: 4650.9 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

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

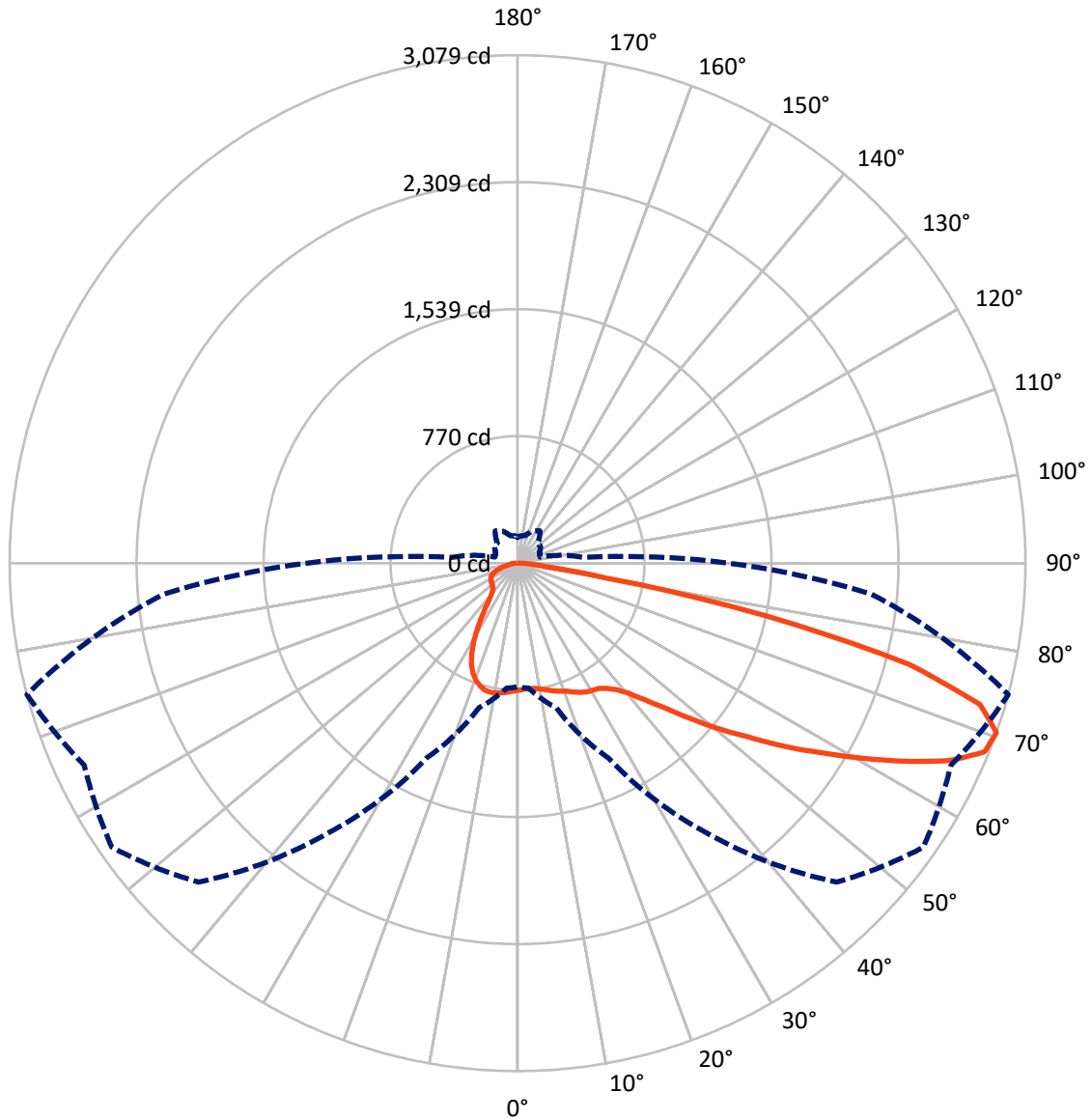
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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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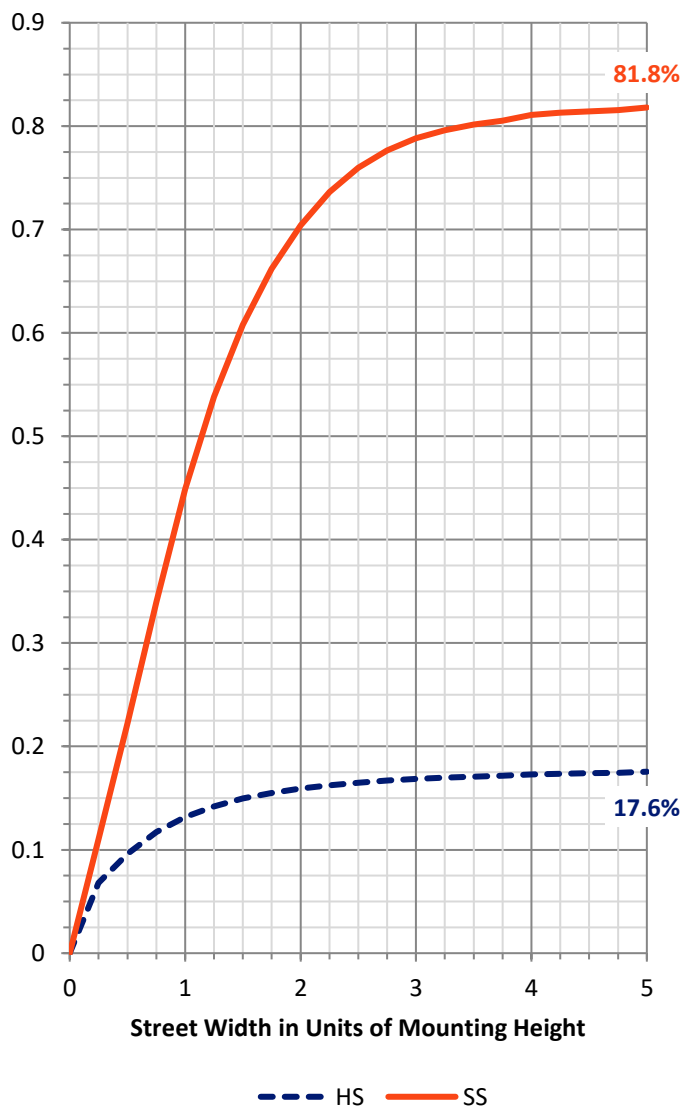
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	827.4	0.0	827.4
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	3823.4	0.0	3823.4
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	4650.9	0.0	4650.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	1.5
10°-20°	184.7	4.0
20°-30°	311.2	6.7
30°-40°	472.6	10.2
40°-50°	677.1	14.6
50°-60°	897.7	19.3
60°-70°	1123.4	24.2
70°-80°	820.4	17.6
80°-90°	94.6	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°	4650.9	100.0
0°-180°	4650.9	100.0



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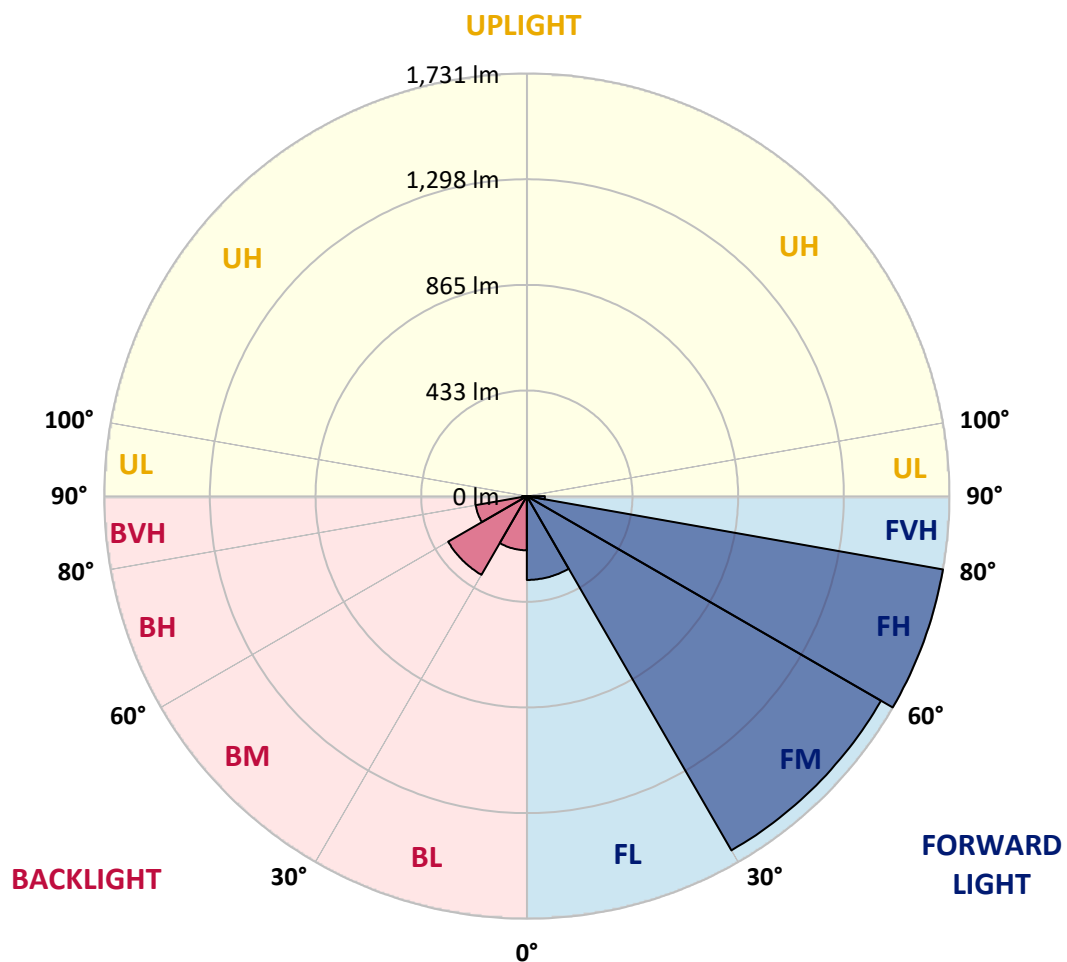
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.3	7.4			
FM (30°-60°)	1675.4	36.0			
FH (60°-80°)	1730.9	37.2			G1/1800
FVH (80°-90°)	73.8	1.6			G1/100
BL (0°-30°)	221.8	4.8	B1/500		
BM (30°-60°)	372.0	8.0	B1/1000		
BH (60°-80°)	212.8	4.6	B1/500		G1/500
BVH (80°-90°)	20.8	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-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	728.2	732.2	735.9	739.6	742.6	750.6	752.3	761.0	763.4	765.4	768.0
5°	687.4	690.4	694.1	700.1	706.5	720.9	730.9	750.0	760.7	764.0	773.4
7.5°	665.3	666.3	671.3	676.4	683.7	697.8	711.5	741.3	762.7	766.4	786.5
10°	649.2	650.6	655.3	662.3	669.7	682.7	699.8	735.3	770.1	775.7	804.2
12.5°	643.6	642.9	648.2	652.9	663.3	679.7	697.4	735.6	780.1	788.1	830.0
15°	666.3	662.0	665.3	663.6	667.0	683.0	704.1	742.9	792.5	802.5	856.7
17.5°	716.5	712.8	710.5	696.1	686.7	695.8	715.8	753.3	805.5	816.2	880.8
20°	791.5	781.1	772.4	748.3	722.2	719.2	733.2	763.7	817.9	828.3	906.3
22.5°	876.8	868.4	854.4	812.2	771.7	751.7	755.3	782.8	836.0	847.4	935.4
25°	984.6	984.2	955.5	898.6	837.3	796.8	789.1	813.2	856.4	867.4	959.5
27.5°	1107.4	1099.0	1064.9	991.6	914.6	852.7	834.6	844.4	872.8	884.2	978.9
30°	1212.5	1213.5	1178.7	1098.7	997.0	907.3	873.1	866.8	883.5	894.9	997.0
32.5°	1324.9	1319.2	1287.4	1205.1	1086.0	965.8	897.9	882.8	894.6	905.3	1022.1
35°	1430.7	1424.3	1396.9	1308.2	1184.0	1030.4	931.4	907.9	920.7	932.4	1052.8
37.5°	1531.4	1532.4	1501.3	1416.6	1279.1	1106.7	980.9	945.8	959.5	972.5	1099.7
40°	1619.4	1614.4	1590.3	1514.0	1377.8	1184.4	1036.8	997.3	1024.1	1036.1	1158.9
42.5°	1647.5	1647.2	1656.6	1609.7	1481.5	1276.7	1106.4	1077.6	1115.4	1133.5	1231.6
45°	1623.1	1630.5	1684.7	1683.3	1585.3	1382.8	1201.4	1175.3	1229.9	1250.3	1320.2
47.5°	1599.0	1610.1	1683.7	1725.5	1678.3	1499.6	1318.2	1298.8	1377.1	1406.6	1412.3
50°	1563.9	1574.2	1661.9	1731.5	1735.2	1617.8	1469.5	1445.1	1545.8	1575.9	1512.3
52.5°	1524.7	1532.8	1623.4	1727.2	1762.3	1710.1	1617.8	1610.7	1726.5	1751.0	1614.1
55°	1308.5	1342.7	1566.9	1717.8	1781.1	1780.7	1762.0	1785.1	1923.6	1960.1	1727.5
57.5°	1184.4	1202.4	1407.6	1712.5	1816.2	1846.0	1910.9	1960.4	2134.1	2166.9	1852.7
60°	1143.9	1159.9	1327.6	1706.1	1886.2	1948.1	2056.5	2136.8	2360.4	2400.5	1992.6
62.5°	1107.1	1126.5	1295.1	1655.6	1970.8	2109.7	2230.2	2327.6	2599.0	2646.5	2131.8
65°	1032.1	1045.8	1235.6	1613.1	2051.1	2340.3	2480.8	2537.7	2830.2	2883.8	2224.2
67.5°	902.6	915.6	1101.4	1515.3	2103.3	2580.2	2754.9	2755.3	3008.9	3052.8	2243.6
70°	750.3	760.4	907.9	1302.5	1994.6	2734.2	3002.3	2897.5	3059.5	3078.6	2151.2
72.5°	536.5	545.2	665.0	962.8	1635.5	2609.4	3058.5	2891.5	2937.0	2931.0	1888.5
75°	330.6	347.4	407.3	587.7	1016.4	2053.2	2752.6	2620.1	2466.1	2449.4	1422.0
77.5°	215.5	224.2	275.4	346.7	448.4	1178.7	2090.6	1964.5	1557.2	1537.8	764.4
80°	129.5	143.9	180.4	217.9	203.1	450.8	1193.7	975.9	550.2	544.2	234.9
82.5°	69.6	82.7	127.2	134.9	114.1	159.3	432.4	317.3	176.0	174.0	88.0
85°	55.2	61.6	91.4	85.3	64.6	80.7	168.7	132.2	90.4	88.4	33.1
87.5°	33.5	42.2	69.3	57.6	32.1	29.1	77.3	62.6	42.5	39.5	13.1
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°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	773.1	774.7	776.4	773.1	774.4	772.7	772.7	772.7	768.4	767.0	771.1
5°	780.4	782.8	784.1	773.7	767.4	758.0	750.3	738.6	731.9	727.6	727.6
7.5°	795.5	798.2	792.1	769.1	746.6	721.5	695.8	674.3	658.9	652.3	654.3
10°	817.6	818.6	798.5	756.0	708.1	661.6	625.1	596.7	577.6	567.9	566.6
12.5°	843.3	839.0	799.8	727.2	656.3	593.7	549.2	512.4	487.9	478.6	473.9
15°	868.8	858.4	794.8	692.7	597.4	522.1	465.2	430.4	415.3	411.0	409.3
17.5°	891.5	872.1	778.1	643.2	529.1	438.4	396.6	384.2	385.9	389.9	391.6
20°	912.3	882.5	754.0	584.3	443.8	373.1	362.8	374.2	383.5	389.5	390.6
22.5°	935.0	892.5	720.5	512.7	373.8	343.0	355.4	368.5	377.8	383.9	384.9
25°	952.4	892.2	673.3	427.7	329.6	335.0	349.7	361.4	368.5	372.8	372.5
27.5°	963.5	884.2	611.4	357.8	312.2	329.3	343.4	351.1	355.1	358.4	358.1
30°	966.8	868.8	533.5	306.2	304.2	324.0	334.7	339.3	342.4	345.7	345.7
32.5°	973.5	845.0	447.4	277.4	298.2	318.6	325.0	328.6	326.3	317.9	316.3
35°	980.9	818.6	366.1	264.0	292.5	314.9	320.9	311.2	285.8	282.5	281.1
37.5°	995.3	794.2	297.2	254.7	291.2	316.9	321.9	283.1	261.7	251.3	249.7
40°	1019.7	769.7	251.0	248.0	292.8	325.6	308.6	269.7	234.3	214.5	211.2
42.5°	1051.8	739.9	224.9	244.6	297.5	339.7	303.9	250.7	211.8	198.5	196.4
45°	1089.0	700.4	212.5	244.0	303.2	346.7	305.2	235.3	201.8	191.4	190.8
47.5°	1127.5	661.6	207.2	243.3	310.2	343.7	286.8	230.6	197.8	194.8	196.8
50°	1169.0	617.5	202.8	241.6	315.9	343.7	276.8	229.6	199.1	205.8	212.5
52.5°	1207.8	580.3	197.8	236.6	318.3	337.7	273.8	233.3	201.1	199.5	201.5
55°	1255.0	561.2	195.1	229.6	313.9	319.3	270.1	243.3	202.8	189.1	189.1
57.5°	1308.9	557.2	191.1	220.2	299.9	293.8	269.7	249.3	198.5	185.7	183.4
60°	1373.8	565.9	186.1	208.5	282.8	274.1	267.4	249.3	191.4	180.0	181.1
62.5°	1426.3	564.9	183.1	198.1	260.0	253.7	263.0	246.0	188.7	179.4	179.0
65°	1438.7	543.5	174.4	184.7	231.9	228.9	258.4	237.6	185.1	175.7	173.0
67.5°	1396.9	495.0	161.3	167.0	202.1	202.5	250.0	226.6	180.0	173.7	169.3
70°	1278.1	400.3	141.9	145.6	170.0	174.4	237.6	213.5	171.7	165.0	154.6
72.5°	1069.6	287.8	119.5	120.5	135.2	146.6	216.2	195.8	159.3	143.6	132.5
75°	791.8	191.1	97.4	96.0	101.4	119.1	184.7	176.0	143.2	119.1	113.5
77.5°	418.7	113.1	75.0	75.3	72.0	91.4	146.6	152.9	127.2	100.4	94.7
80°	143.2	67.9	53.9	56.2	50.9	65.3	108.8	127.2	108.8	83.7	74.0
82.5°	65.6	41.5	38.5	40.2	36.5	44.2	74.6	96.4	86.7	60.9	49.2
85°	33.1	24.8	24.8	27.1	24.1	22.8	41.2	63.9	63.6	41.8	36.1
87.5°	13.7	12.0	11.4	13.1	11.4	8.7	11.7	23.1	33.5	25.1	16.1
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)