

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: P674629

Luminaire Tested: **CCP-SA-1F-840-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674629  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-840-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ T2R distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

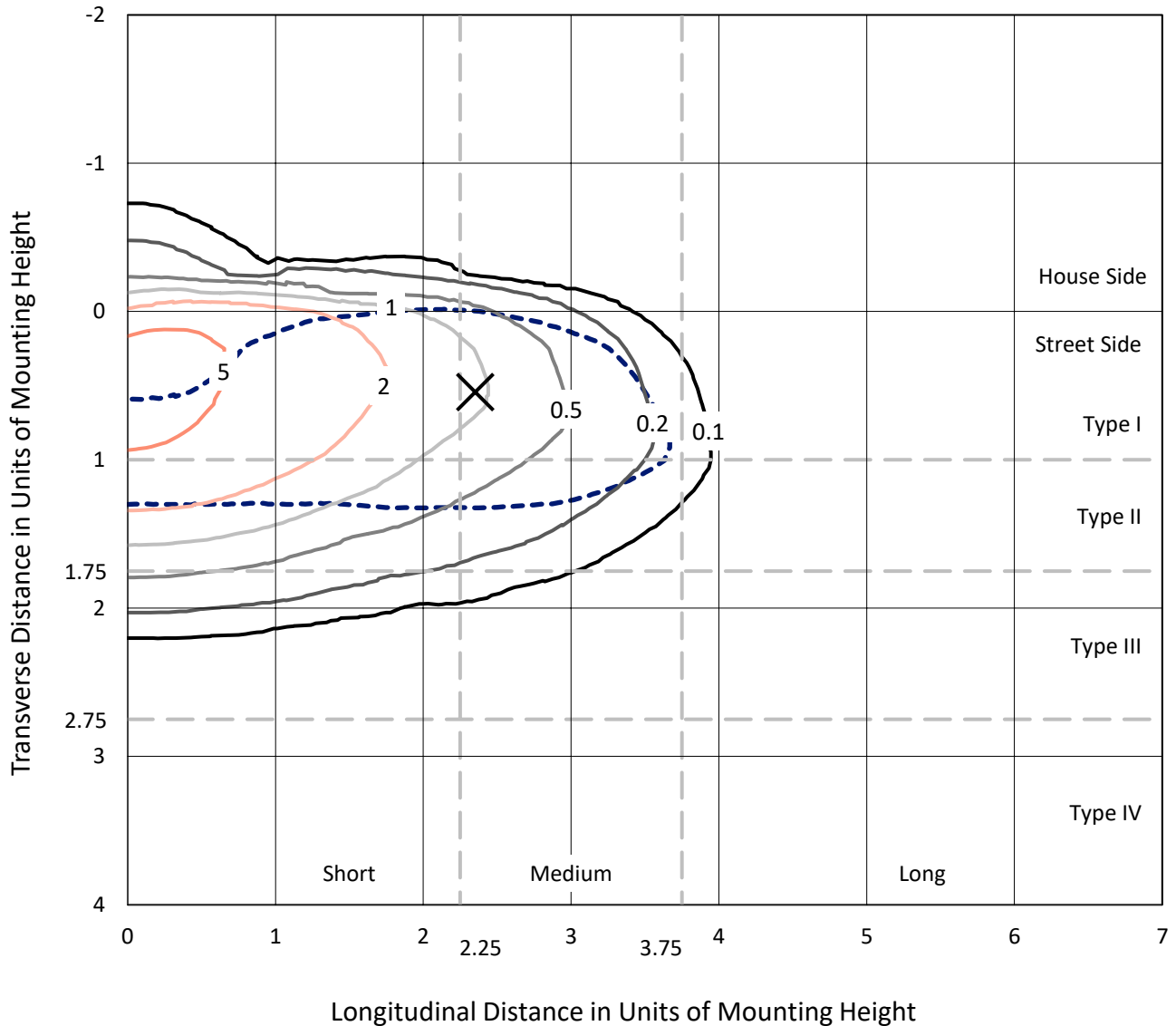
Lumens per Lamp: N/A  
Luminaire Lumens: 5176 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 67  
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

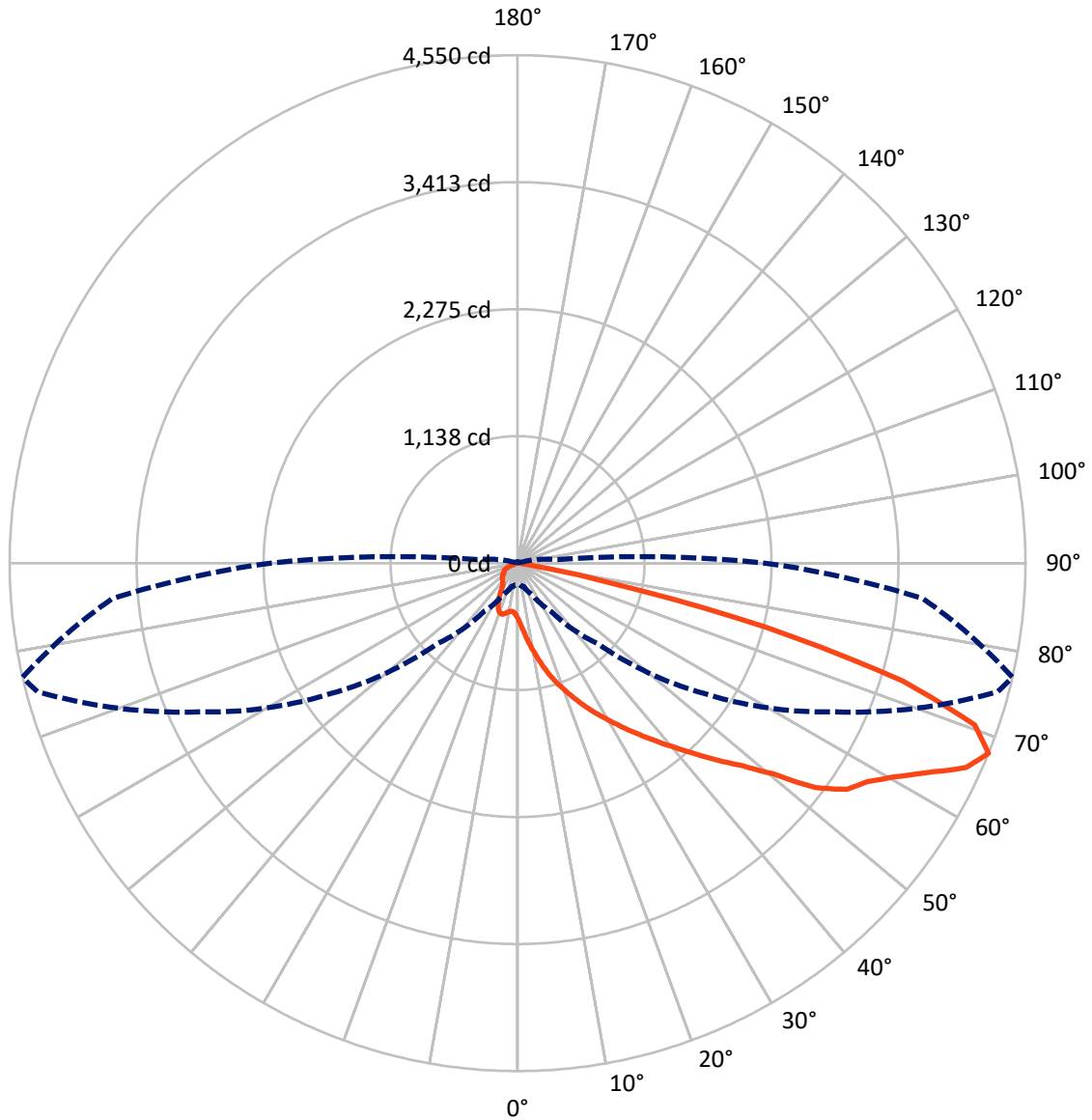
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 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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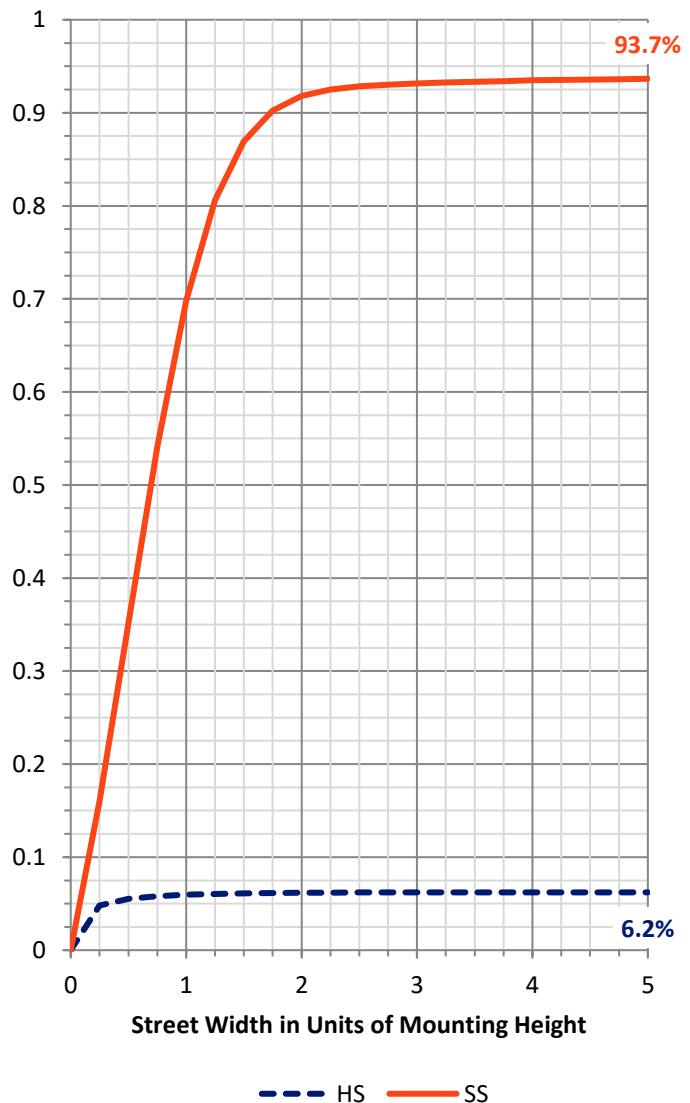
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	323.4	0.0	323.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4852.6	0.0	4852.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5176.0	0.0	5176.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	1.1
10°-20°	215.5	4.2
20°-30°	420.9	8.1
30°-40°	736.0	14.2
40°-50°	1073.3	20.7
50°-60°	1255.1	24.2
60°-70°	1017.4	19.7
70°-80°	382.2	7.4
80°-90°	17.4	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°	5176.0	100.0
0°-180°	5176.0	100.0



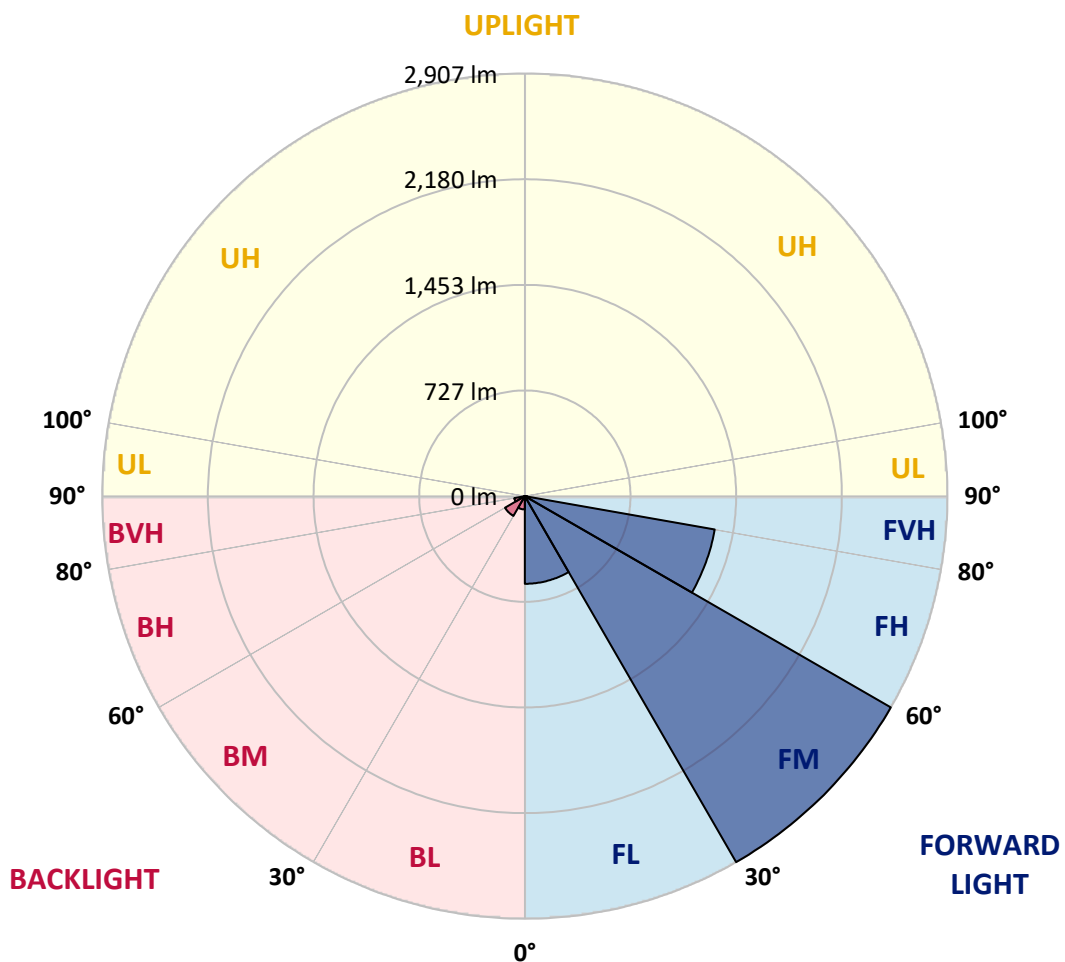
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	603.0	11.6			
FM (30°-60°)	2907.0	56.2			
FH (60°-80°)	1326.3	25.6			G1/1800
FVH (80°-90°)	16.4	0.3			G1/100
BL (0°-30°)	91.7	1.8	B0/110		
BM (30°-60°)	157.4	3.0	B0/220		
BH (60°-80°)	73.4	1.4	B0/110		G0/110
BVH (80°-90°)	1.0	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°	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2.5°	744.4	717.3	722.4	711.2	696.7	663.0	627.5	592.0	560.2	553.2	521.5
5°	953.2	944.8	935.9	928.5	898.1	856.0	792.0	710.7	637.3	624.7	558.8
7.5°	1115.4	1102.7	1110.7	1087.8	1056.0	1015.4	934.1	847.1	734.1	715.4	613.1
10°	1235.0	1228.0	1231.7	1221.0	1205.5	1164.9	1084.5	975.6	844.8	809.3	673.8
12.5°	1324.7	1326.1	1342.4	1343.4	1330.8	1297.6	1212.5	1099.0	945.3	913.5	741.1
15°	1390.1	1391.5	1411.6	1433.1	1447.6	1430.3	1353.2	1226.1	1063.5	1020.0	811.6
17.5°	1400.9	1401.8	1437.3	1480.8	1525.6	1540.6	1481.2	1352.3	1171.4	1121.9	892.5
20°	1407.9	1415.8	1447.6	1497.6	1568.6	1614.9	1582.6	1473.3	1276.1	1218.6	971.9
22.5°	1492.9	1492.9	1511.6	1547.1	1603.6	1676.1	1669.5	1584.5	1378.0	1321.0	1050.9
25°	1673.3	1673.3	1655.0	1645.7	1676.1	1733.1	1749.4	1703.2	1494.3	1427.0	1134.0
27.5°	1912.0	1912.0	1883.5	1814.9	1788.7	1812.5	1829.8	1806.4	1601.8	1535.4	1221.9
30°	2159.7	2168.1	2118.6	2031.2	1939.6	1921.4	1904.6	1899.4	1716.3	1641.5	1311.1
32.5°	2408.3	2407.3	2345.7	2236.8	2117.2	2052.7	1998.0	1991.9	1837.7	1764.4	1395.7
35°	2606.9	2607.3	2542.4	2430.7	2292.4	2210.2	2122.3	2093.8	1970.9	1889.1	1496.6
37.5°	2778.8	2769.0	2698.9	2592.8	2463.9	2378.8	2269.5	2195.2	2108.8	2025.6	1597.6
40°	2877.4	2864.3	2796.1	2695.2	2597.5	2532.6	2436.3	2317.6	2260.2	2170.4	1712.5
42.5°	2891.9	2880.7	2835.4	2774.6	2694.7	2637.7	2612.0	2455.9	2419.0	2337.7	1849.9
45°	2851.2	2833.0	2818.1	2786.3	2763.9	2736.3	2771.3	2603.1	2601.3	2520.4	1985.9
47.5°	2750.3	2725.6	2729.3	2764.3	2789.6	2814.3	2923.7	2796.1	2784.9	2709.2	2164.4
50°	2577.9	2565.7	2606.9	2676.0	2776.0	2875.1	3075.5	2993.3	3037.7	2966.7	2410.6
52.5°	2227.4	2242.4	2365.3	2531.6	2704.5	2903.6	3218.0	3287.7	3401.2	3342.8	2658.3
55°	1806.9	1801.3	1965.3	2260.6	2536.8	2885.4	3280.2	3461.0	3639.5	3578.3	2796.1
57.5°	1455.5	1465.3	1576.1	1868.1	2252.2	2744.7	3294.7	3551.7	3735.3	3694.7	2923.7
60°	1092.5	1101.8	1202.7	1456.9	1873.7	2451.3	3175.1	3583.4	3915.2	3884.4	3127.4
62.5°	695.3	707.4	808.8	1056.0	1432.2	1995.2	2906.4	3550.3	4103.0	4128.7	3405.4
65°	342.0	352.8	427.5	616.8	957.4	1492.0	2531.6	3423.6	4342.3	4415.6	3628.3
67.5°	189.2	194.4	220.1	314.0	534.1	1023.3	2034.5	3153.1	4452.1	4550.2	3643.3
70°	147.2	148.6	158.4	183.2	260.3	600.4	1447.1	2702.7	4224.5	4343.2	3340.0
72.5°	123.8	125.7	130.4	138.8	162.6	312.6	909.3	2088.7	3554.5	3608.2	2584.0
75°	90.6	93.5	106.5	114.0	128.5	189.7	400.9	1255.1	2348.9	2296.1	1445.7
77.5°	76.2	78.5	81.8	92.5	106.1	129.4	140.6	526.1	956.0	831.3	379.4
80°	51.9	54.7	63.5	69.2	89.7	85.5	58.4	141.1	192.0	156.5	72.9
82.5°	36.9	39.3	43.9	56.5	64.9	45.3	31.8	43.0	46.3	43.9	23.8
85°	11.7	15.0	31.8	46.7	35.0	15.4	20.1	16.4	14.5	14.0	9.3
87.5°	2.3	2.3	15.9	18.7	14.0	7.9	7.0	5.1	6.5	6.5	5.1
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°	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2.5°	506.5	485.5	455.1	426.6	397.6	377.1	362.6	348.1	342.5	340.2	334.1
5°	528.9	488.8	428.5	379.9	344.4	321.9	308.4	296.7	289.2	286.9	283.6
7.5°	561.2	503.2	416.8	360.7	325.2	300.9	279.0	253.7	233.6	225.7	222.4
10°	596.2	525.2	418.7	357.0	309.8	256.5	207.5	166.8	149.1	142.5	137.8
12.5°	647.6	549.5	426.6	352.8	263.5	183.2	132.7	115.9	111.7	110.7	109.8
15°	699.0	583.6	439.7	324.7	196.7	124.8	110.3	104.2	101.9	99.5	99.5
17.5°	750.9	616.3	444.8	270.1	136.0	107.9	100.5	95.3	91.6	89.7	88.3
20°	809.3	650.9	429.9	203.3	108.9	98.6	90.2	84.1	80.8	79.0	77.6
22.5°	872.4	685.0	397.2	141.6	99.1	88.8	80.8	74.8	71.5	69.6	69.2
25°	931.7	714.4	344.8	106.5	89.2	79.4	72.0	66.8	64.5	62.6	62.1
27.5°	992.9	739.7	276.6	93.9	81.3	72.0	64.5	60.3	57.9	56.5	56.1
30°	1052.7	757.0	206.1	86.0	74.3	64.9	58.4	55.1	52.8	51.4	50.9
32.5°	1114.4	766.8	139.2	79.0	67.3	58.9	53.3	50.0	48.6	47.2	47.2
35°	1173.8	765.4	100.5	72.4	61.7	53.3	48.1	45.8	45.3	43.9	43.9
37.5°	1238.7	755.6	85.5	66.4	55.6	48.1	43.9	42.5	42.1	41.1	40.7
40°	1312.5	733.6	78.0	61.7	50.5	43.9	40.2	39.3	38.8	37.8	37.8
42.5°	1393.4	705.1	73.8	56.5	46.3	39.7	36.9	35.5	35.0	34.1	34.1
45°	1487.3	678.0	71.0	51.4	42.5	36.4	33.6	32.2	31.8	30.8	30.8
47.5°	1615.3	662.6	66.4	46.7	38.3	33.2	30.4	29.4	28.5	27.6	27.6
50°	1791.5	644.4	60.3	42.1	35.0	29.9	28.0	26.6	26.2	25.2	25.2
52.5°	1936.3	605.6	54.2	37.4	31.3	27.6	25.7	24.8	23.8	23.4	23.4
55°	1987.3	560.2	48.1	33.6	28.5	25.7	23.8	22.9	22.4	22.0	22.0
57.5°	2068.6	545.8	42.5	29.9	25.7	23.8	22.0	21.5	21.0	20.6	20.1
60°	2207.4	554.2	37.4	26.6	23.4	21.5	20.1	19.6	18.7	17.8	17.8
62.5°	2341.9	543.9	31.8	23.4	20.1	19.2	17.8	16.8	15.0	13.6	12.6
65°	2374.6	475.2	27.6	19.6	16.8	15.9	14.5	12.6	9.8	7.9	7.9
67.5°	2216.2	361.2	23.8	16.8	14.0	13.1	10.3	8.4	6.1	4.7	4.7
70°	1828.9	229.0	19.6	13.1	11.7	8.9	6.5	6.1	4.2	3.7	3.3
72.5°	1319.6	125.2	16.4	10.7	8.4	5.6	4.7	3.7	2.8	1.9	1.9
75°	668.2	58.9	12.1	8.4	5.6	3.7	2.8	1.9	1.9	1.4	1.4
77.5°	189.2	27.1	7.9	5.6	3.7	2.3	1.9	1.4	1.4	0.9	0.9
80°	37.4	13.6	5.1	3.7	2.8	1.9	1.4	0.9	0.9	0.5	0.5
82.5°	13.6	7.0	3.7	2.8	2.3	1.9	0.9	0.5	0.5	0.0	0.0
85°	7.0	3.7	2.8	2.3	1.9	1.4	0.9	0.5	0.0	0.0	0.0
87.5°	3.7	2.8	2.3	2.3	1.9	1.4	0.9	0.5	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)