

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: P674406

Luminaire Tested: **CCP-SA-1D-735-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674406  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-735-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

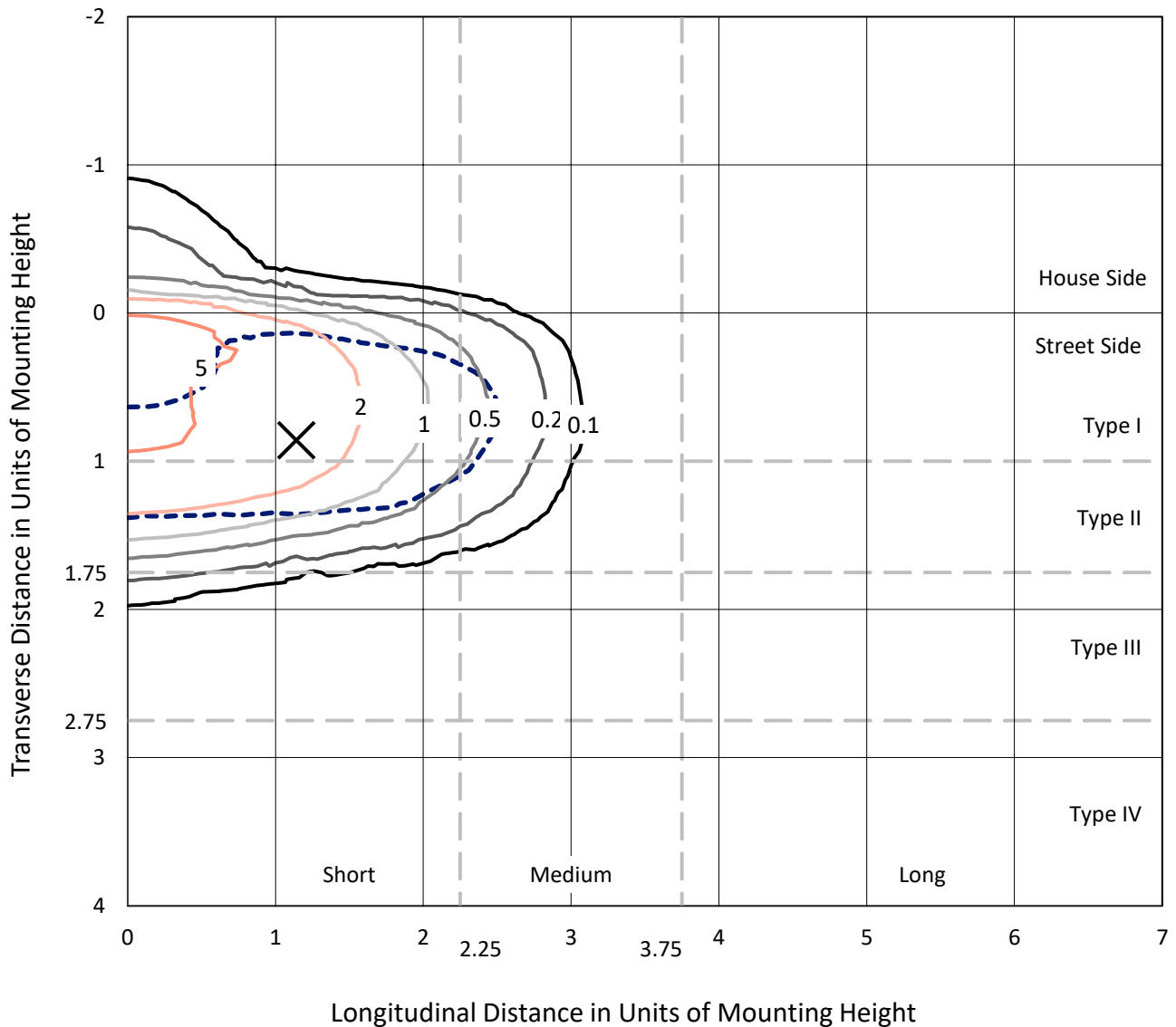
Lumens per Lamp: N/A  
Luminaire Lumens: 4561.3 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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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 CATALOG NUMBER: CCP-SA-1D-735-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

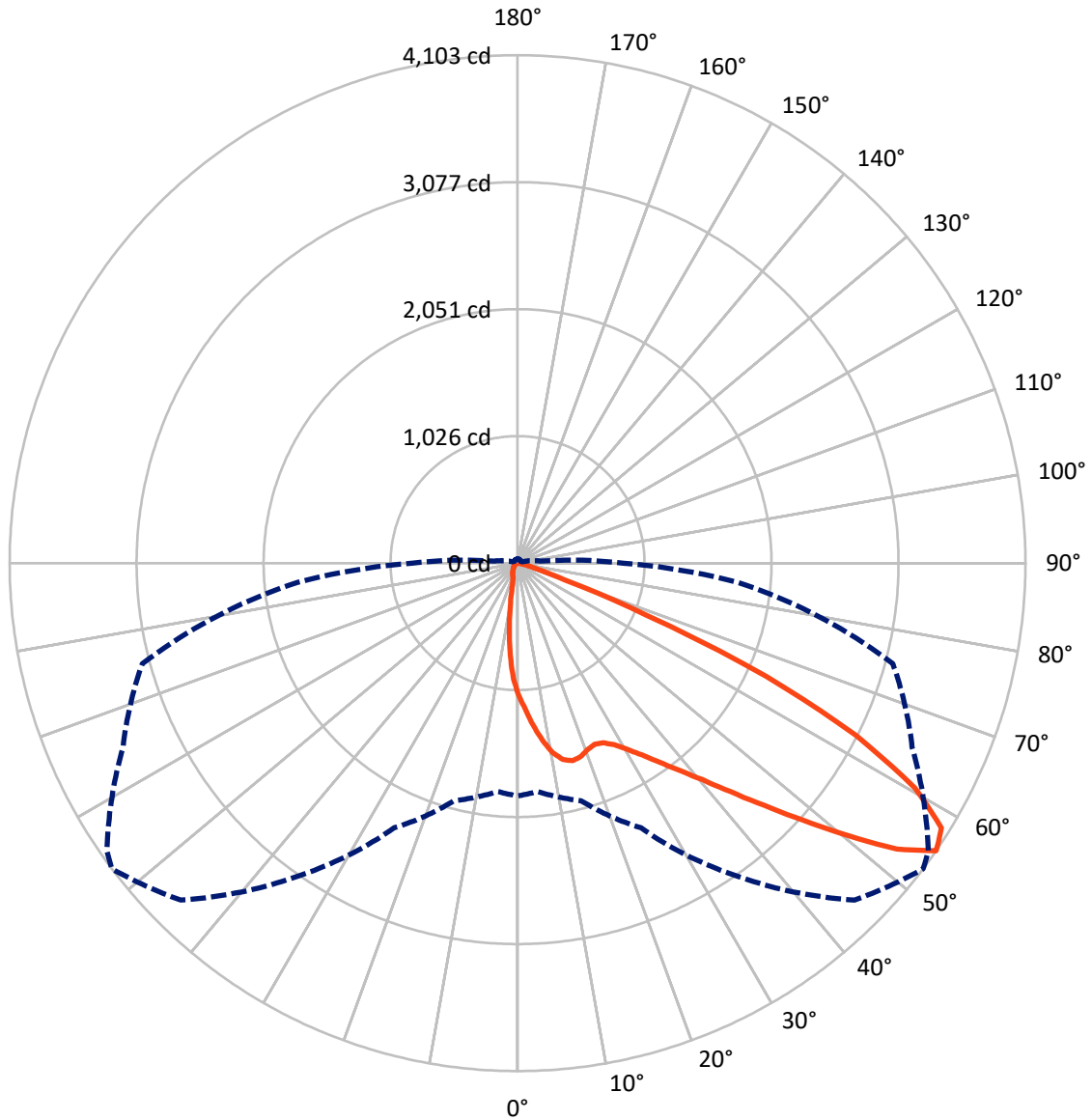
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P674406  
CATALOG NUMBER: CCP-SA-1D-735-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: CCP-SA-1D-735-U-AFL-HSS

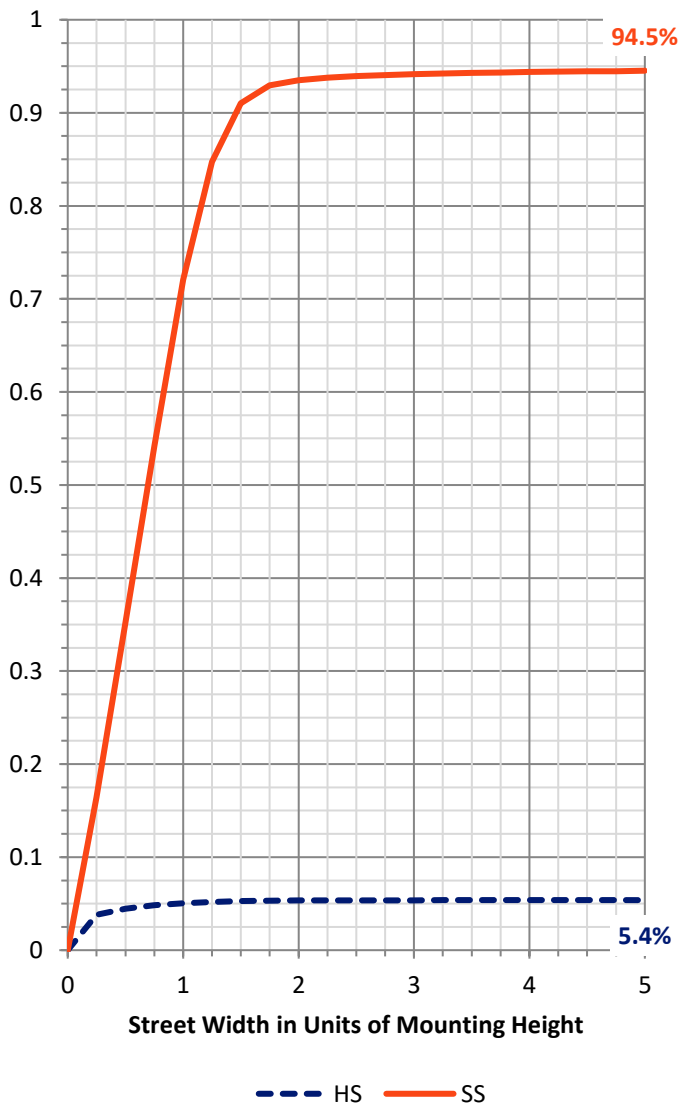
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	246.6	0.0	246.6
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	4314.8	0.0	4314.8
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	4561.3	0.0	4561.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	2.1
10°-20°	249.4	5.5
20°-30°	417.4	9.2
30°-40°	682.8	15.0
40°-50°	1097.7	24.1
50°-60°	1239.3	27.2
60°-70°	661.0	14.5
70°-80°	108.6	2.4
80°-90°	9.7	0.2
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°	4561.3	100.0
0°-180°	4561.3	100.0

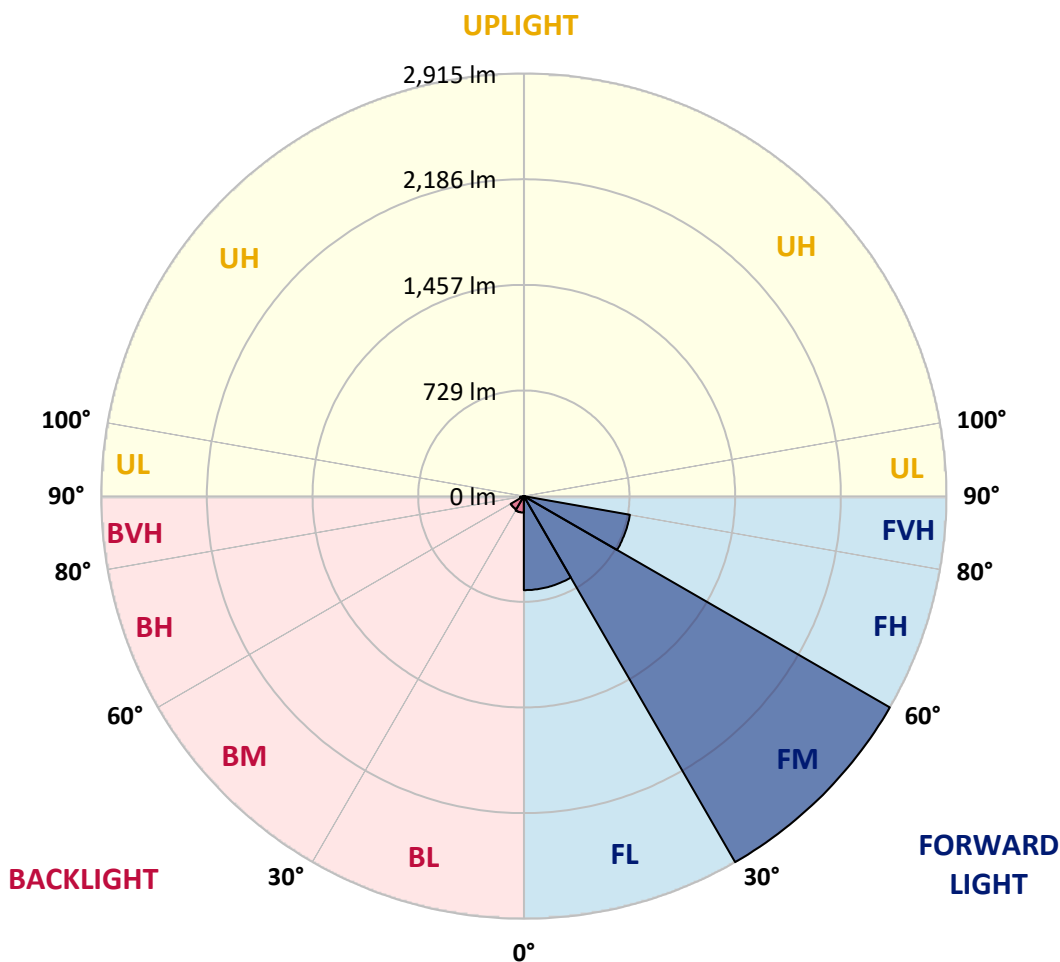


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 CATALOG NUMBER: CCP-SA-1D-735-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.4	14.2			
FM (30°-60°)	2914.7	63.9			
FH (60°-80°)	742.7	16.3			G1/1800
FVH (80°-90°)	8.9	0.2			G0/10
BL (0°-30°)	113.8	2.5	B1/500		
BM (30°-60°)	105.1	2.3	B0/220		
BH (60°-80°)	27.0	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
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





REPORT NUMBER: P674406

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5
2.5°	1280.1	1272.5	1276.9	1265.3	1244.1	1217.7	1178.2	1180.2	1149.0	1121.8	1084.2
5°	1491.5	1483.5	1481.1	1451.5	1421.9	1374.4	1315.6	1306.0	1248.9	1179.8	1101.0
7.5°	1603.0	1596.2	1601.4	1590.6	1561.4	1518.3	1443.9	1436.7	1348.4	1243.7	1127.8
10°	1551.8	1549.4	1571.4	1597.0	1620.6	1615.4	1555.8	1544.6	1445.5	1314.0	1155.4
12.5°	1414.3	1421.9	1449.9	1497.1	1569.8	1638.2	1628.6	1630.6	1544.6	1390.4	1185.8
15°	1333.6	1342.8	1358.8	1383.2	1472.7	1594.2	1656.1	1676.1	1639.7	1475.5	1221.7
17.5°	1326.8	1334.4	1336.8	1346.0	1398.4	1523.5	1644.9	1682.9	1724.5	1555.8	1262.1
20°	1379.2	1382.4	1380.4	1373.6	1392.4	1485.1	1609.8	1664.1	1794.4	1641.3	1297.7
22.5°	1477.9	1473.1	1467.1	1441.9	1440.7	1495.9	1590.6	1647.3	1836.0	1712.1	1321.2
25°	1600.2	1590.2	1581.8	1546.2	1529.4	1552.2	1607.8	1653.3	1873.5	1780.8	1338.0
27.5°	1733.7	1736.9	1716.1	1668.1	1641.7	1637.0	1660.9	1694.9	1909.9	1842.4	1347.2
30°	1876.3	1877.9	1850.8	1801.2	1777.2	1746.5	1744.9	1765.2	1949.1	1913.1	1356.0
32.5°	2039.0	2043.4	1999.0	1947.5	1905.5	1865.6	1846.0	1863.2	2019.4	2005.4	1374.0
35°	2274.0	2254.8	2194.9	2116.9	2057.4	2005.0	1975.1	1986.2	2112.9	2116.1	1410.0
37.5°	2516.2	2514.2	2447.8	2335.5	2238.0	2172.9	2121.7	2140.1	2244.4	2264.4	1467.5
40°	2742.0	2747.2	2689.6	2591.7	2466.2	2354.3	2299.6	2312.0	2419.1	2444.2	1537.4
42.5°	2889.4	2886.6	2891.0	2863.1	2737.2	2605.3	2523.0	2529.8	2622.1	2635.3	1625.0
45°	2957.4	2946.6	2984.2	3072.9	3022.9	2884.2	2790.3	2781.9	2832.7	2829.1	1704.5
47.5°	2898.6	2878.7	2965.0	3178.8	3275.5	3233.5	3099.3	3084.1	3040.9	3012.1	1787.2
50°	2606.5	2597.7	2782.3	3128.4	3434.2	3556.5	3457.7	3401.4	3226.7	3147.2	1830.8
52.5°	2328.7	2304.4	2429.1	2871.5	3363.4	3816.2	3836.6	3736.3	3381.0	3186.0	1816.0
55°	1881.1	1851.2	1987.0	2359.1	3083.3	3849.4	4102.8	4050.4	3516.1	3138.0	1786.0
57.5°	1142.6	1113.0	1312.8	1689.7	2465.8	3573.6	4037.2	4090.4	3620.0	3085.3	1766.4
60°	480.4	461.6	539.9	806.5	1574.6	2937.0	3689.5	3822.2	3639.6	3012.9	1774.4
62.5°	249.8	241.4	245.8	322.9	636.6	1933.9	3070.9	3301.9	3442.2	2981.0	1782.4
65°	187.4	181.0	167.1	177.4	247.4	836.1	2206.8	2516.2	3014.1	2899.8	1728.5
67.5°	153.9	147.9	137.9	134.7	145.9	290.1	1126.6	1528.6	2361.9	2554.1	1535.0
70°	122.7	120.7	117.5	111.5	109.5	140.7	404.0	623.0	1561.8	1801.2	1112.6
72.5°	102.3	102.7	99.1	93.9	86.7	90.7	161.1	213.0	755.7	863.6	466.0
75°	85.5	85.5	86.7	79.5	72.3	62.3	89.5	103.9	242.6	199.4	99.5
77.5°	67.1	67.9	73.1	67.1	57.9	39.2	48.8	55.6	71.9	57.5	36.4
80°	53.6	52.8	50.8	60.3	52.0	27.6	23.2	25.6	33.6	27.6	18.0
82.5°	37.6	37.2	35.6	40.8	40.4	20.4	15.2	15.6	20.4	17.6	11.2
85°	9.2	10.8	22.8	19.2	16.8	12.0	9.2	10.0	13.2	11.6	6.0
87.5°	4.0	4.0	10.4	12.4	8.0	5.2	4.0	4.4	6.8	6.8	3.6
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°	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5
2.5°	1071.1	1045.1	1012.3	977.5	942.0	899.2	872.0	849.6	832.1	818.5	813.7
5°	1075.0	1025.1	950.8	858.4	764.5	676.6	608.7	558.3	516.7	494.0	484.0
7.5°	1074.6	1008.3	874.0	719.4	566.7	440.0	350.1	294.5	257.4	242.2	233.0
10°	1074.2	986.3	786.5	565.1	378.9	255.0	187.8	156.7	143.1	137.9	137.1
12.5°	1085.8	961.1	688.6	416.0	237.8	158.7	130.7	123.5	120.3	118.7	118.3
15°	1092.2	938.0	585.5	293.7	160.3	125.5	116.7	113.5	112.3	111.5	111.1
17.5°	1099.0	902.0	487.6	212.6	128.3	113.9	108.7	106.7	105.9	105.9	105.9
20°	1100.2	863.2	390.5	156.7	113.9	106.3	101.1	99.1	97.9	97.1	97.1
22.5°	1091.4	817.3	306.9	127.1	105.5	99.1	93.5	90.3	88.3	87.9	87.9
25°	1069.5	752.1	235.4	111.5	98.7	91.9	85.1	81.5	79.9	79.9	79.9
27.5°	1037.9	675.4	181.8	99.1	89.9	83.1	77.1	73.9	73.5	73.1	73.5
30°	1001.9	601.5	139.1	87.9	79.5	73.9	69.1	67.5	68.3	68.3	68.7
32.5°	965.9	527.5	108.7	79.1	70.3	65.5	63.1	63.1	64.3	64.3	64.3
35°	935.2	455.2	91.1	71.9	63.9	59.9	58.7	59.9	60.7	61.1	61.1
37.5°	918.0	392.9	80.3	65.5	58.7	55.6	55.2	56.4	57.9	59.1	59.5
40°	911.6	344.9	73.9	60.7	54.0	52.0	51.6	53.2	56.0	57.9	58.3
42.5°	912.0	302.5	68.3	56.0	50.8	48.0	48.0	50.4	53.2	55.2	55.2
45°	914.8	266.2	62.7	51.2	48.0	43.2	43.6	46.8	48.8	50.8	50.8
47.5°	917.2	237.0	56.7	46.0	41.6	39.2	40.0	42.4	45.2	48.4	48.4
50°	903.2	216.2	50.8	40.4	36.4	35.6	37.2	39.2	43.2	46.4	46.8
52.5°	869.6	197.4	45.6	36.0	32.8	33.2	35.2	36.4	39.6	40.0	40.4
55°	854.8	187.8	41.6	32.8	30.0	31.2	32.4	32.8	32.0	30.0	30.0
57.5°	851.6	181.4	37.6	29.6	27.6	29.2	28.8	26.4	24.0	21.6	21.2
60°	854.8	172.6	34.4	25.6	25.2	25.6	24.4	20.0	16.8	15.2	14.4
62.5°	836.5	159.9	31.6	22.0	22.0	21.6	18.4	13.6	10.8	9.6	9.2
65°	775.7	134.7	28.8	18.4	18.0	17.2	12.4	9.2	7.2	6.0	5.6
67.5°	656.2	104.3	26.0	15.2	14.4	12.0	8.0	6.0	4.0	3.6	3.2
70°	447.6	64.7	22.0	12.0	10.8	7.6	4.8	3.6	2.4	2.0	1.6
72.5°	162.3	37.6	18.4	9.2	7.2	4.8	2.8	1.6	1.2	1.2	0.8
75°	38.4	26.4	14.0	6.8	4.8	2.8	1.6	1.2	0.8	0.8	0.4
77.5°	17.6	20.4	9.2	4.0	3.2	2.0	1.2	0.8	0.4	0.4	0.0
80°	10.0	14.4	4.4	2.8	2.4	1.6	0.8	0.4	0.4	0.0	0.0
82.5°	5.2	8.0	3.2	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
85°	3.6	4.0	2.4	2.0	1.6	1.2	0.8	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.4	2.0	1.6	1.2	0.4	0.0	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)