

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: P673969

Luminaire Tested: **CCP-SA-2D-730-U-SL4-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673969  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-730-U-SL4-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ SL4 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

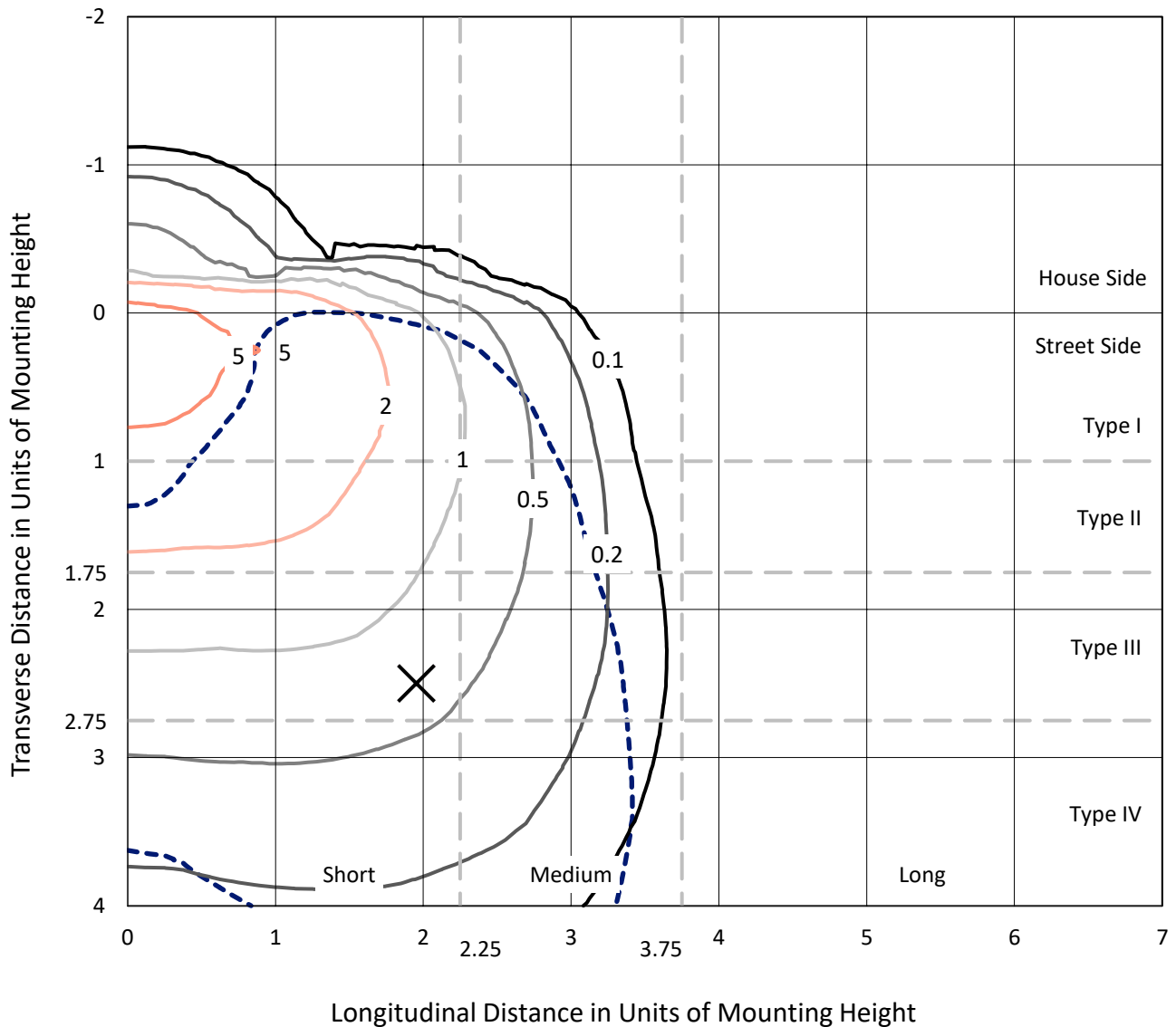
Lumens per Lamp: N/A  
Luminaire Lumens: 8388.9 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

REPORT NUMBER: P673969  
 CATALOG NUMBER: CCP-SA-2D-730-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

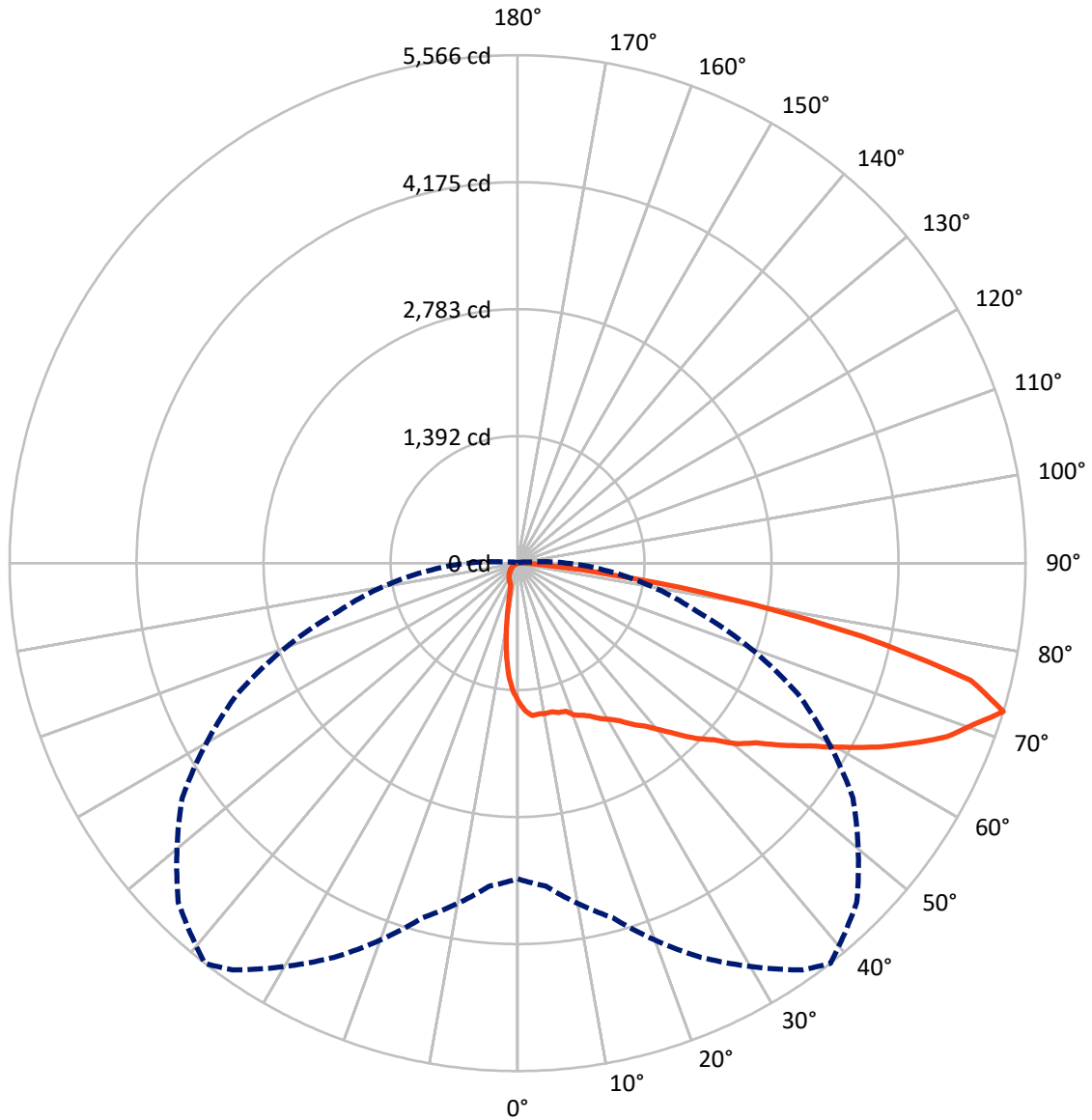
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P673969  
CATALOG NUMBER: CCP-SA-2D-730-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P673969  
 CATALOG NUMBER: CCP-SA-2D-730-U-SL4-HSS

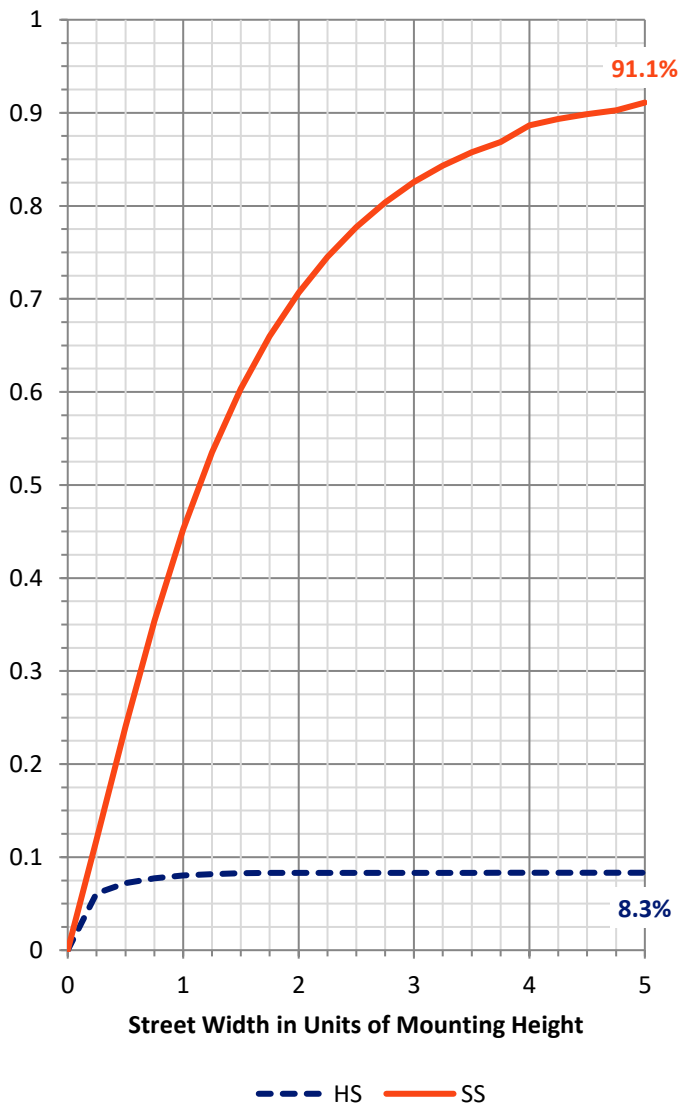
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	702.6	0.0	702.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	7686.3	0.0	7686.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	8388.9	0.0	8388.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	1.6
10°-20°	325.1	3.9
20°-30°	521.2	6.2
30°-40°	786.9	9.4
40°-50°	1197.6	14.3
50°-60°	1686.1	20.1
60°-70°	2059.5	24.6
70°-80°	1495.5	17.8
80°-90°	184.2	2.2
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°	8388.9	100.0
0°-180°	8388.9	100.0



REPORT NUMBER: P673969

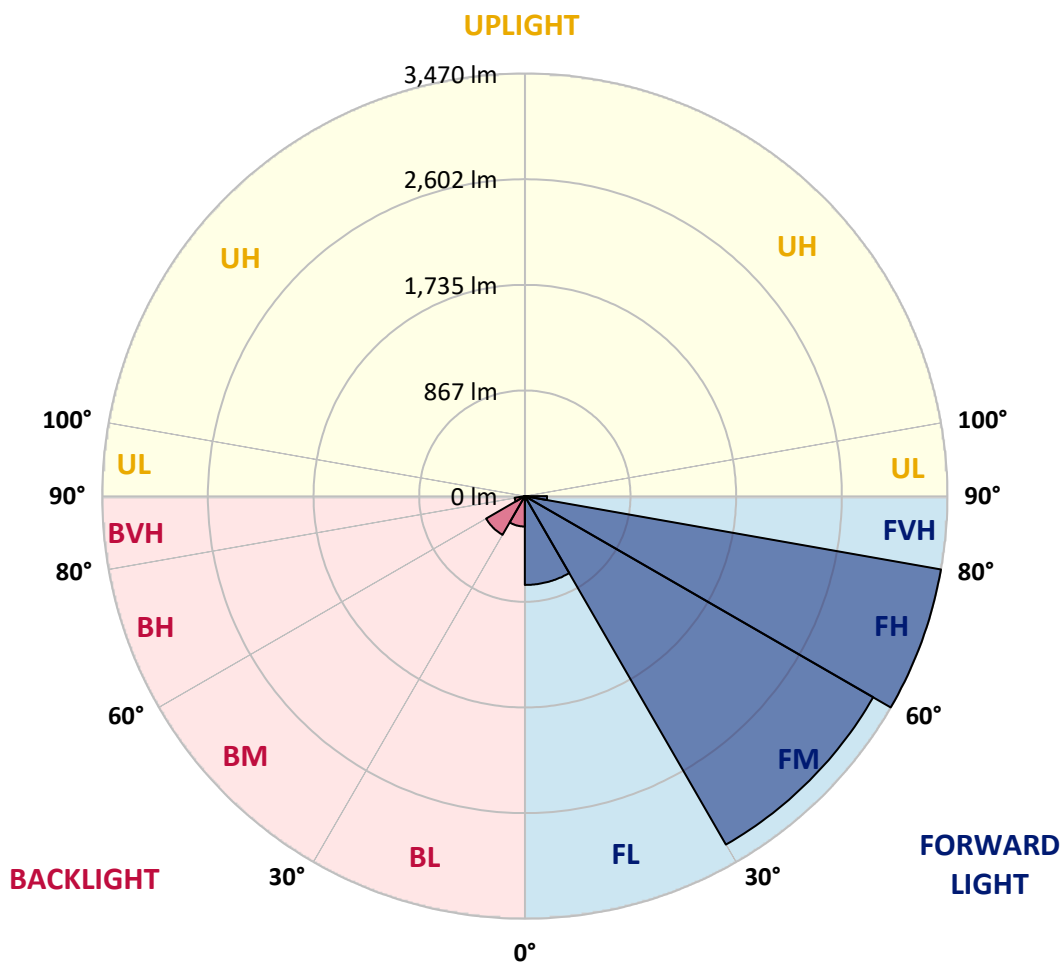
CATALOG NUMBER: CCP-SA-2D-730-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	729.6	8.7			
FM (30°-60°)	3303.6	39.4			
FH (60°-80°)	3469.9	41.4			G2/5000
FVH (80°-90°)	183.2	2.2			G2/225
BL (0°-30°)	249.4	3.0	B1/500		
BM (30°-60°)	367.0	4.4	B1/1000		
BH (60°-80°)	85.2	1.0	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: B1-U0-G2**

Type IV Short





REPORT NUMBER: P673969

CATALOG NUMBER: CCP-SA-2D-730-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0
2.5°	1666.6	1666.6	1682.3	1666.6	1660.7	1623.3	1625.3	1605.6	1585.9	1558.4	1532.8
5°	1686.3	1700.0	1709.9	1696.1	1674.5	1678.4	1692.2	1654.8	1601.6	1568.2	1511.1
7.5°	1678.4	1707.9	1700.0	1692.2	1678.4	1668.5	1648.9	1633.1	1607.6	1576.1	1509.2
10°	1672.5	1682.3	1684.3	1678.4	1648.9	1676.4	1654.8	1629.2	1597.7	1560.3	1477.7
12.5°	1650.8	1650.8	1668.5	1654.8	1658.7	1672.5	1662.6	1656.7	1623.3	1591.8	1519.0
15°	1627.2	1635.1	1662.6	1684.3	1704.0	1698.1	1692.2	1674.5	1644.9	1609.5	1532.8
17.5°	1633.1	1637.1	1680.4	1719.7	1709.9	1705.9	1737.4	1700.0	1670.5	1631.2	1544.6
20°	1654.8	1666.6	1715.8	1766.9	1776.8	1776.8	1765.0	1743.3	1702.0	1648.9	1566.2
22.5°	1676.4	1680.4	1761.0	1826.0	1835.8	1810.2	1820.1	1757.1	1717.7	1688.2	1587.9
25°	1759.1	1751.2	1837.8	1888.9	1883.0	1857.4	1847.6	1792.5	1776.8	1723.6	1635.1
27.5°	1871.2	1837.8	1922.4	1953.9	1922.4	1930.2	1902.7	1843.7	1810.2	1778.7	1656.7
30°	1940.1	1959.8	2005.0	2036.5	1983.4	1985.3	1971.6	1906.6	1855.5	1863.3	1729.5
32.5°	2046.3	2060.1	2093.6	2107.3	2066.0	2062.1	2048.3	1997.1	1959.8	1951.9	1827.9
35°	2160.5	2186.0	2188.0	2191.9	2154.6	2170.3	2150.6	2077.8	2097.5	2111.3	1946.0
37.5°	2272.6	2249.0	2288.3	2306.1	2264.7	2264.7	2270.6	2221.5	2256.9	2298.2	2113.2
40°	2315.9	2325.7	2394.6	2380.8	2430.0	2400.5	2422.1	2410.3	2439.9	2534.3	2349.3
42.5°	2361.2	2373.0	2465.4	2491.0	2550.0	2559.9	2591.4	2593.3	2679.9	2835.3	2575.6
45°	2447.7	2428.1	2554.0	2616.9	2713.4	2740.9	2778.3	2809.8	2945.5	3128.5	2833.4
47.5°	2526.4	2498.9	2642.5	2768.5	2886.5	2892.4	2994.7	3028.2	3189.5	3398.1	3089.2
50°	2636.6	2646.5	2707.5	2923.9	3043.9	3112.8	3183.6	3293.8	3472.9	3695.2	3274.1
52.5°	2750.7	2740.9	2843.2	3055.7	3244.6	3270.2	3429.6	3553.5	3748.3	3915.6	3356.8
55°	2890.4	2902.2	2941.6	3221.0	3461.1	3522.1	3701.1	3831.0	4043.5	4010.0	3384.3
57.5°	3030.1	3018.3	3106.9	3406.0	3732.6	3777.8	4015.9	4092.7	4236.3	4073.0	3315.5
60°	3167.9	3189.5	3226.9	3614.5	4029.7	4096.6	4285.5	4324.8	4356.3	4102.5	3262.3
62.5°	3325.3	3274.1	3390.2	3834.9	4297.3	4437.0	4586.5	4431.1	4403.5	4049.4	3140.3
65°	3404.0	3419.7	3571.2	4086.8	4653.4	4755.8	4775.4	4574.7	4433.1	3931.3	3026.2
67.5°	3526.0	3547.6	3740.5	4344.5	5019.4	5076.5	5005.6	4704.6	4407.5	3777.8	2615.0
70°	3541.7	3594.9	3966.7	4614.1	5249.6	5298.8	5243.7	4791.2	4200.9	3173.8	1936.1
72.5°	3459.1	3553.5	4021.8	4767.6	5442.5	5566.4	5257.5	4486.2	3386.3	2024.7	991.7
75°	2613.0	2691.7	3681.4	4539.3	5100.1	5129.6	4616.1	3423.7	1928.3	690.6	253.8
77.5°	1353.7	1489.5	2457.6	3468.9	3886.1	3854.6	3213.1	2016.8	663.1	181.0	102.3
80°	777.2	810.7	1074.3	1948.0	2443.8	2323.8	1776.8	869.7	291.2	90.5	66.9
82.5°	383.7	430.9	578.5	871.7	1221.9	1005.5	667.0	521.4	163.3	49.2	59.0
85°	82.6	86.6	295.1	417.1	495.8	326.6	228.2	438.8	59.0	29.5	57.1
87.5°	59.0	57.1	82.6	186.9	137.7	84.6	135.8	230.2	13.8	13.8	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P673969  
 CATALOG NUMBER: CCP-SA-2D-730-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0
2.5°	1517.0	1499.3	1479.7	1442.3	1432.4	1426.5	1393.1	1391.1	1385.2	1371.4	1365.5
5°	1475.7	1446.2	1408.8	1369.5	1338.0	1280.9	1212.1	1176.6	1133.4	1135.3	1121.5
7.5°	1469.8	1414.7	1361.6	1279.0	1178.6	1072.4	966.1	897.2	848.0	818.5	824.4
10°	1442.3	1401.0	1314.4	1160.9	999.6	838.2	702.4	600.1	541.1	495.8	509.6
12.5°	1454.1	1373.4	1251.4	1046.8	816.6	617.8	448.6	350.2	306.9	291.2	295.1
15°	1446.2	1373.4	1214.0	922.8	641.4	419.1	291.2	259.7	251.9	251.9	247.9
17.5°	1469.8	1389.1	1151.1	800.8	460.4	279.4	249.9	244.0	238.1	238.1	238.1
20°	1503.3	1397.0	1107.8	665.1	324.7	246.0	234.1	230.2	228.2	228.2	226.3
22.5°	1505.2	1389.1	1027.1	515.5	249.9	232.2	222.3	220.4	220.4	216.4	216.4
25°	1517.0	1397.0	940.5	387.6	232.2	218.4	210.5	208.6	210.5	208.6	206.6
27.5°	1546.6	1410.8	853.9	283.3	218.4	206.6	200.7	198.7	198.7	198.7	194.8
30°	1583.9	1410.8	757.5	234.1	206.6	194.8	188.9	186.9	185.0	185.0	185.0
32.5°	1662.6	1456.0	639.5	208.6	190.9	181.0	175.1	175.1	173.2	173.2	171.2
35°	1761.0	1487.5	519.5	192.8	177.1	167.2	161.3	161.3	159.4	159.4	157.4
37.5°	1883.0	1566.2	397.5	181.0	163.3	153.5	147.6	147.6	147.6	145.6	145.6
40°	2056.2	1646.9	295.1	165.3	149.5	139.7	135.8	133.8	131.8	131.8	127.9
42.5°	2241.1	1770.9	220.4	153.5	137.7	129.9	124.0	118.1	118.1	112.2	112.2
45°	2441.8	1879.1	179.1	139.7	125.9	116.1	110.2	106.3	100.3	96.4	96.4
47.5°	2638.6	1946.0	157.4	124.0	114.1	106.3	100.3	92.5	84.6	82.6	80.7
50°	2798.0	1965.7	139.7	112.2	104.3	96.4	88.5	78.7	70.8	66.9	64.9
52.5°	2798.0	1857.4	125.9	100.3	94.4	86.6	76.7	64.9	55.1	51.2	49.2
55°	2798.0	1686.3	112.2	92.5	84.6	78.7	64.9	53.1	43.3	37.4	35.4
57.5°	2756.6	1479.7	100.3	82.6	74.8	66.9	55.1	41.3	31.5	25.6	25.6
60°	2642.5	1263.2	86.6	72.8	64.9	55.1	43.3	29.5	19.7	13.8	13.8
62.5°	2496.9	1005.5	74.8	61.0	53.1	45.3	33.4	19.7	7.9	3.9	3.9
65°	2243.1	741.8	64.9	51.2	41.3	33.4	21.6	7.9	0.0	0.0	0.0
67.5°	1851.5	495.8	51.2	41.3	35.4	23.6	13.8	2.0	0.0	0.0	0.0
70°	1302.6	281.4	39.4	29.5	25.6	15.7	3.9	0.0	0.0	0.0	0.0
72.5°	535.2	124.0	27.5	21.6	17.7	7.9	0.0	0.0	0.0	0.0	0.0
75°	145.6	55.1	17.7	11.8	9.8	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	84.6	37.4	7.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.9	17.7	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.9	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	57.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	0.0	0.0	0.0	0.0	0.0	0.0	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)