

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: P676903

Luminaire Tested: **CCW-SA-2D-830-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676903  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-830-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

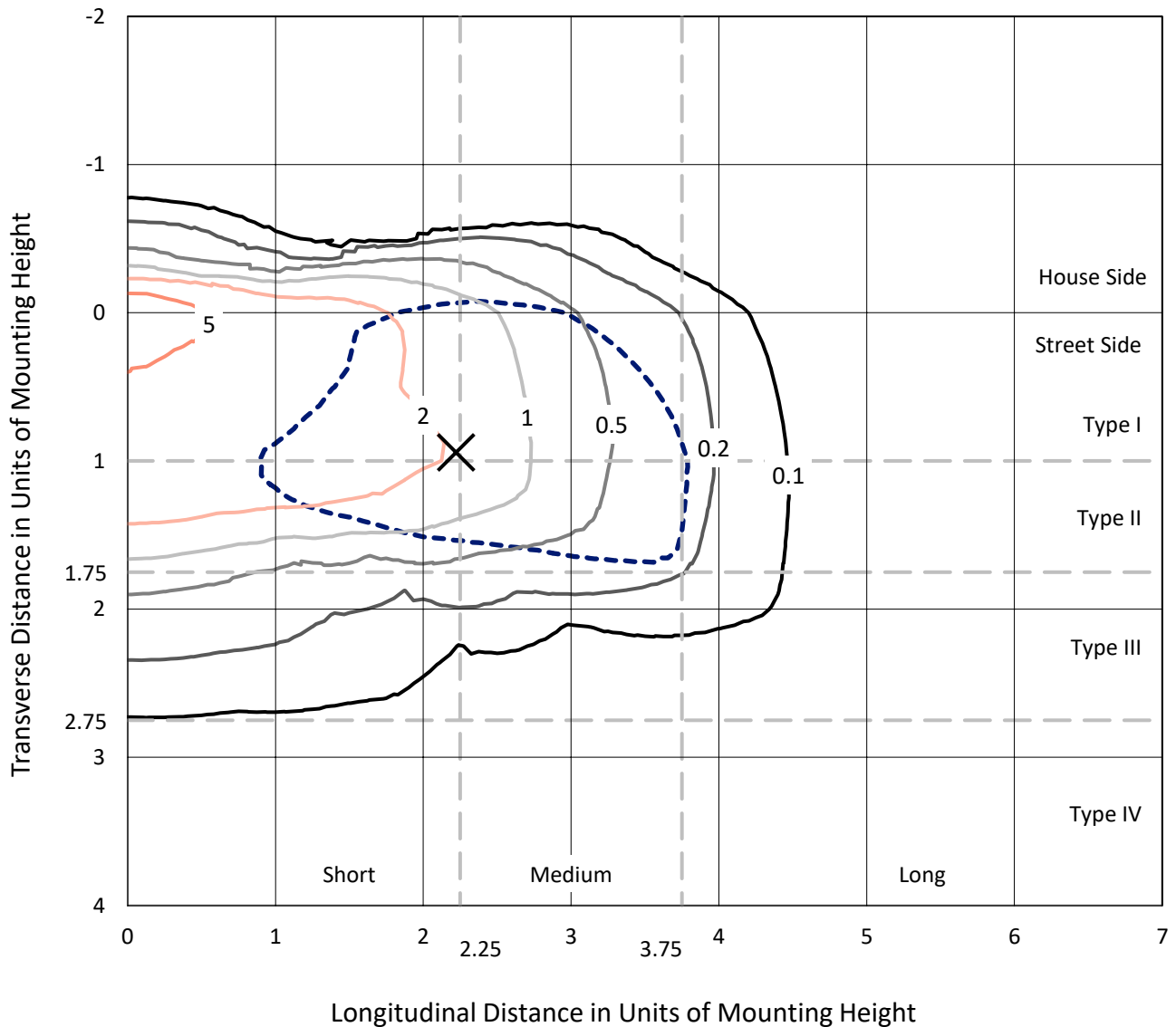
Lumens per Lamp: N/A  
Luminaire Lumens: 7126.4 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

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

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### Iso-Footcandle Lines of Horizontal Illumination

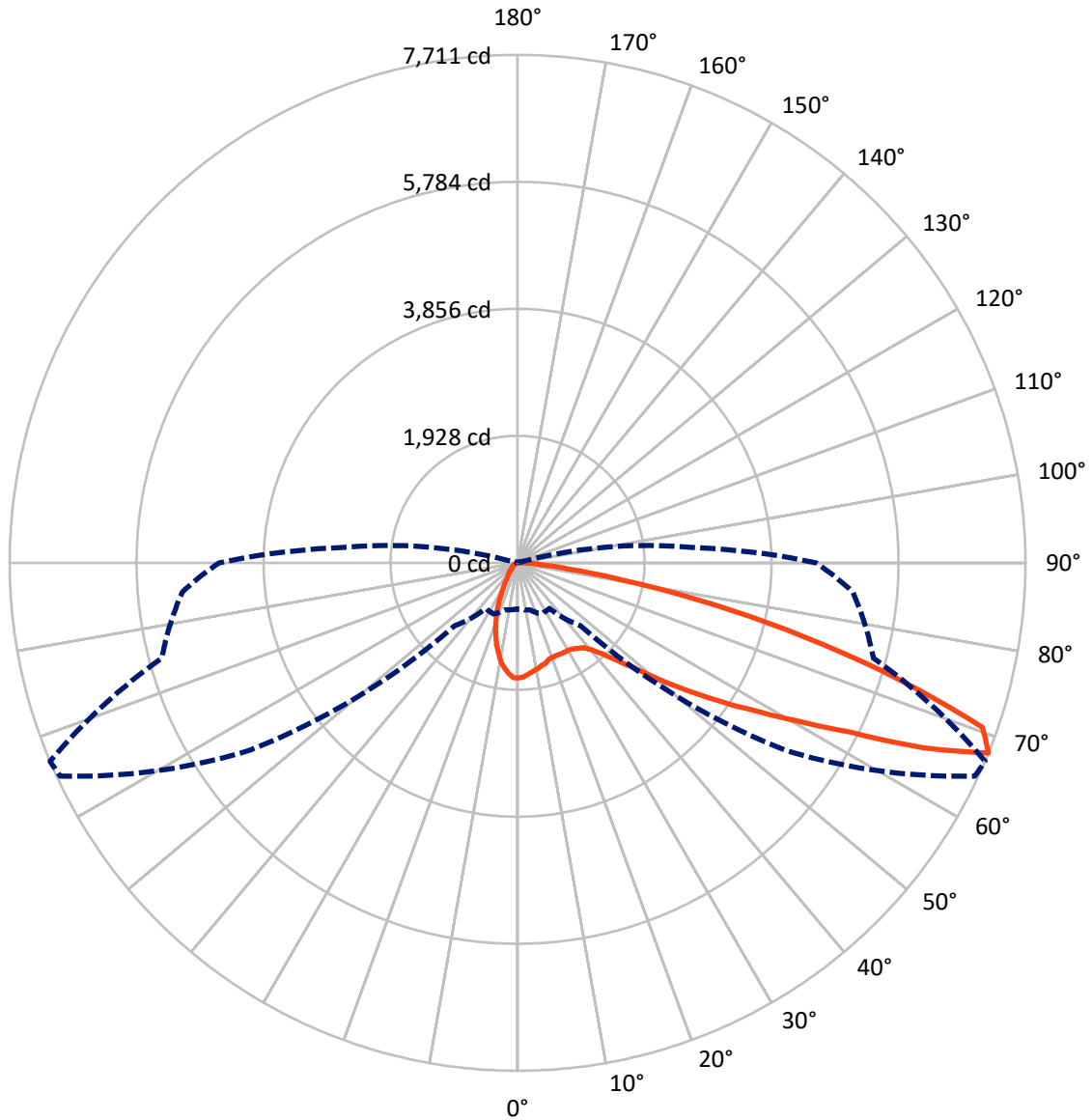
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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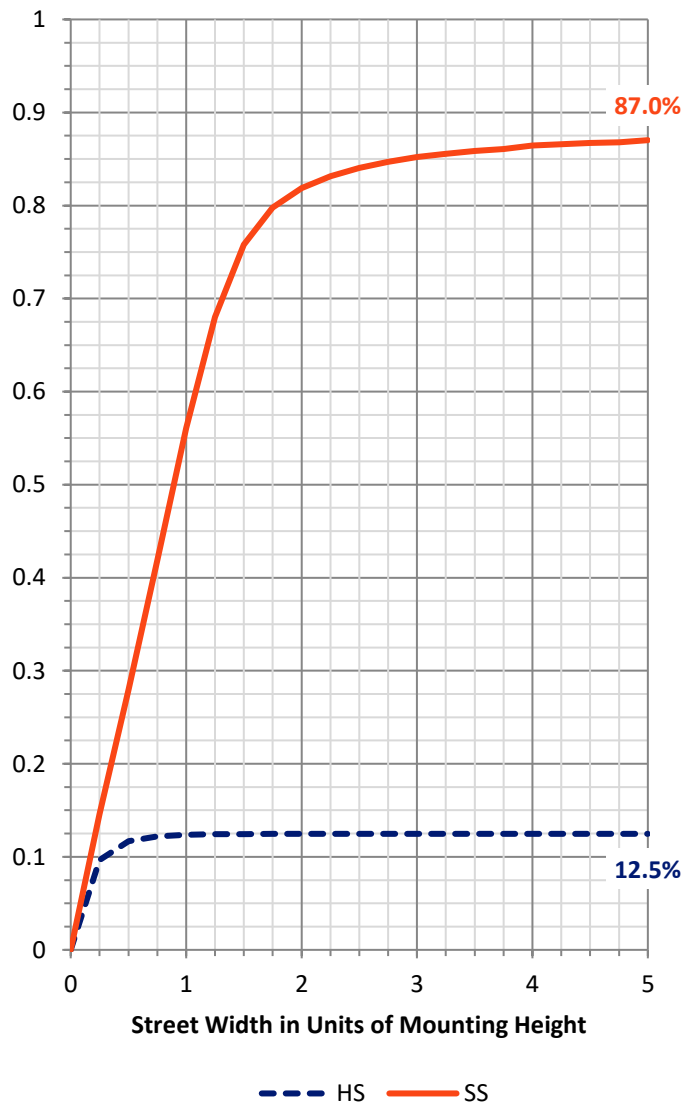
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	896.9	0.0	896.9
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	6229.5	0.0	6229.5
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	7126.4	0.0	7126.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.3	2.1
10°-20°	327.2	4.6
20°-30°	465.2	6.5
30°-40°	677.4	9.5
40°-50°	1048.4	14.7
50°-60°	1609.0	22.6
60°-70°	1744.2	24.5
70°-80°	984.0	13.8
80°-90°	123.6	1.7
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°	7126.4	100.0
0°-180°	7126.4	100.0

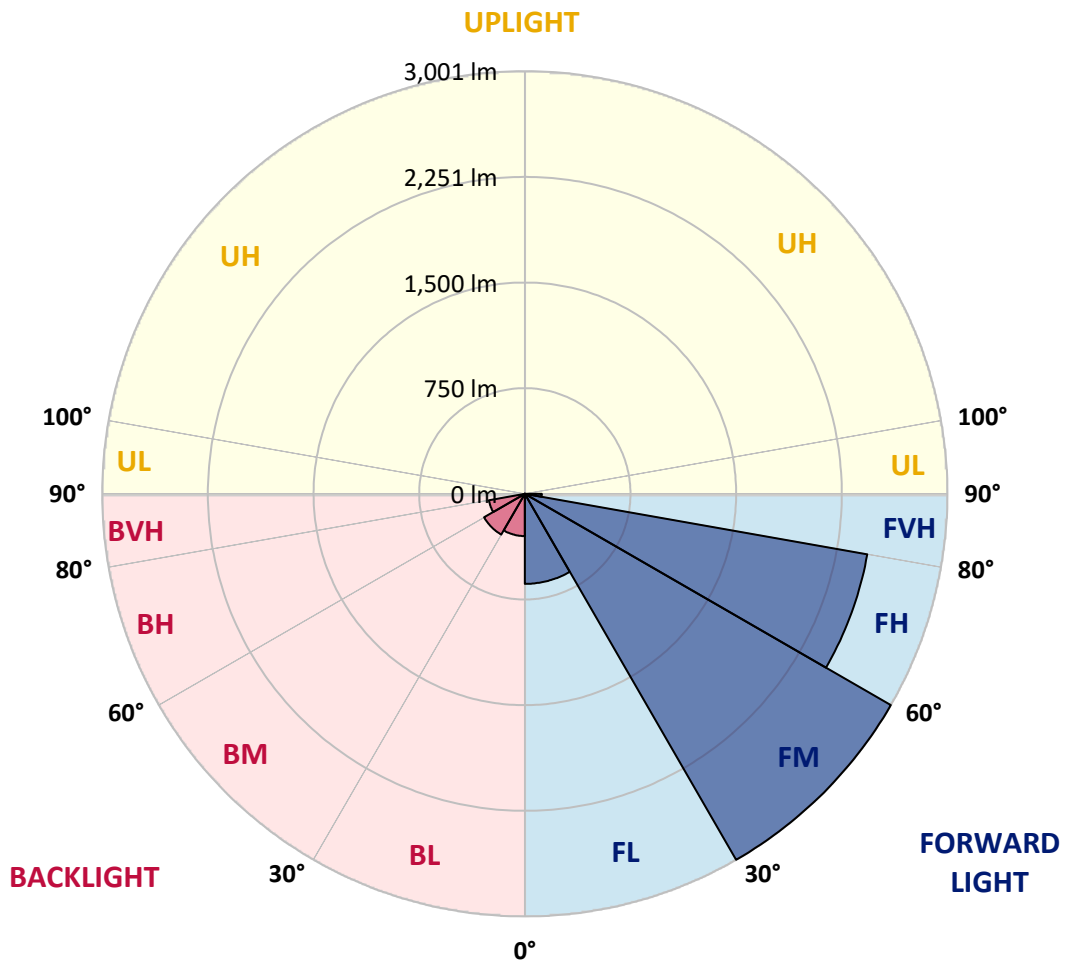


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.4	9.0			
FM (30°-60°)	3000.8	42.1			
FH (60°-80°)	2469.2	34.6			G2/5000
FVH (80°-90°)	120.1	1.7			G2/225
BL (0°-30°)	300.2	4.2	B1/500		
BM (30°-60°)	334.1	4.7	B1/1000		
BH (60°-80°)	259.1	3.6	B1/500		G1/500
BVH (80°-90°)	3.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0
2.5°	1672.4	1681.0	1693.0	1710.2	1722.2	1715.4	1720.5	1749.7	1734.2	1748.0	1741.1
5°	1579.7	1588.3	1605.5	1603.7	1617.5	1643.2	1677.6	1715.4	1698.2	1739.4	1754.9
7.5°	1483.6	1480.1	1480.1	1516.2	1545.4	1581.4	1600.3	1662.1	1663.8	1699.9	1737.7
10°	1396.0	1406.3	1423.5	1437.2	1464.7	1516.2	1571.1	1619.2	1638.1	1710.2	1720.5
12.5°	1342.8	1347.9	1368.5	1380.5	1416.6	1466.4	1524.8	1586.6	1602.0	1675.9	1725.7
15°	1320.4	1332.5	1339.3	1361.6	1380.5	1426.9	1469.8	1540.2	1584.9	1643.2	1705.1
17.5°	1337.6	1332.5	1335.9	1342.8	1365.1	1406.3	1452.6	1523.0	1538.5	1636.4	1729.1
20°	1359.9	1361.6	1351.3	1347.9	1342.8	1382.2	1420.0	1511.0	1528.2	1636.4	1744.5
22.5°	1420.0	1401.1	1420.0	1392.5	1365.1	1382.2	1418.3	1512.7	1524.8	1634.7	1760.0
25°	1493.9	1497.3	1502.4	1444.1	1404.6	1392.5	1430.3	1517.9	1528.2	1648.4	1766.9
27.5°	1598.6	1614.1	1588.3	1559.1	1480.1	1420.0	1428.6	1514.5	1533.3	1641.5	1784.0
30°	1739.4	1727.4	1730.8	1663.8	1586.6	1492.1	1468.1	1523.0	1536.8	1650.1	1816.7
32.5°	1861.3	1847.6	1871.6	1847.6	1725.7	1595.2	1514.5	1540.2	1555.7	1670.7	1844.1
35°	1936.9	1954.0	1991.8	2017.6	1914.5	1729.1	1591.7	1586.6	1593.4	1681.0	1864.7
37.5°	2053.6	2084.5	2115.4	2180.7	2091.4	1893.9	1713.6	1646.7	1634.7	1730.8	1875.0
40°	2180.7	2172.1	2263.1	2340.4	2336.9	2125.7	1883.6	1753.1	1736.0	1809.8	1943.7
42.5°	2287.1	2278.6	2379.9	2506.9	2520.7	2349.0	2077.7	1904.2	1888.8	1931.7	2027.9
45°	2426.2	2433.1	2553.3	2704.4	2754.2	2644.3	2340.4	2120.6	2112.0	2098.3	2187.6
47.5°	2549.9	2587.6	2690.7	2869.2	3049.5	2949.9	2649.4	2436.5	2376.4	2345.5	2434.8
50°	2635.7	2670.1	2795.4	2986.0	3315.7	3379.2	2996.3	2773.1	2774.8	2699.2	2747.3
52.5°	2635.7	2634.0	2735.3	2986.0	3501.1	3827.4	3459.9	3197.2	3210.9	3131.9	3135.4
55°	2381.6	2376.4	2500.1	2766.2	3480.5	4258.3	4162.2	3734.6	3700.3	3547.5	3562.9
57.5°	1918.0	1930.0	2024.4	2343.8	3212.6	4459.2	4998.4	4339.0	4222.3	3906.3	3906.3
60°	1399.4	1389.1	1459.5	1682.7	2573.9	4383.7	5685.2	5051.6	4867.9	4203.4	4158.8
62.5°	1064.6	1062.9	1081.8	1157.3	1632.9	3822.2	5980.6	5958.3	5659.5	4495.3	4431.8
65°	860.3	863.7	889.4	942.7	997.6	2606.5	5824.3	7040.0	6767.0	4929.7	4722.0
67.5°	702.3	710.9	741.8	856.8	844.8	1349.6	4960.6	7659.9	7711.4	5592.5	5111.7
70°	540.9	554.6	590.7	753.8	813.9	898.0	3439.3	7350.8	7488.2	6004.6	4876.5
72.5°	367.5	365.7	443.0	611.3	822.5	822.5	1914.5	5920.5	6051.0	5535.9	4236.0
75°	199.2	211.2	293.6	461.9	753.8	795.0	1090.3	4332.2	4515.9	4304.7	3276.2
77.5°	108.2	109.9	163.1	302.2	626.7	758.9	728.0	2946.5	3018.6	2596.2	1794.3
80°	56.7	58.4	85.9	197.5	432.7	704.0	606.1	1756.6	1687.9	995.9	592.4
82.5°	25.8	27.5	42.9	123.6	276.4	554.6	523.7	848.2	783.0	278.2	180.3
85°	10.3	10.3	18.9	73.8	161.4	273.0	448.2	425.8	355.4	84.1	89.3
87.5°	3.4	3.4	5.2	29.2	65.2	163.1	238.7	224.9	154.5	30.9	48.1
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°	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0
2.5°	1734.2	1753.1	1748.0	1744.5	1711.9	1708.5	1705.1	1674.1	1684.5	1658.7	1675.9
5°	1744.5	1754.9	1727.4	1675.9	1629.5	1578.0	1538.5	1511.0	1461.2	1442.3	1438.9
7.5°	1734.2	1734.2	1677.6	1595.2	1504.2	1420.0	1313.6	1238.0	1181.3	1138.4	1153.9
10°	1720.5	1699.9	1641.5	1495.6	1330.7	1203.7	1050.9	939.2	855.1	827.6	810.5
12.5°	1720.5	1684.5	1554.0	1354.8	1141.9	949.5	767.5	621.6	540.9	492.8	485.9
15°	1705.1	1651.8	1490.4	1222.6	958.1	697.1	489.4	364.0	295.3	276.4	269.6
17.5°	1708.5	1645.0	1396.0	1066.3	743.5	463.6	298.8	230.1	212.9	204.3	206.0
20°	1715.4	1645.0	1311.8	913.5	535.7	288.5	206.0	194.0	185.4	182.0	183.7
22.5°	1737.7	1612.3	1226.0	757.2	362.3	207.8	182.0	170.0	163.1	158.0	156.3
25°	1741.1	1607.2	1143.6	602.7	249.0	175.1	159.7	146.0	137.4	130.5	128.8
27.5°	1736.0	1584.9	1028.5	448.2	187.2	156.3	135.6	121.9	109.9	104.7	103.0
30°	1754.9	1543.7	930.7	322.8	158.0	135.6	115.0	99.6	89.3	82.4	82.4
32.5°	1756.6	1507.6	822.5	230.1	144.2	120.2	97.9	80.7	70.4	67.0	67.0
35°	1758.3	1475.0	702.3	175.1	128.8	103.0	80.7	67.0	60.1	54.9	54.9
37.5°	1763.4	1450.9	592.4	147.7	115.0	87.6	67.0	54.9	48.1	46.4	46.4
40°	1773.7	1418.3	477.3	130.5	99.6	73.8	56.7	46.4	39.5	37.8	36.1
42.5°	1801.2	1409.7	381.2	116.8	89.3	61.8	46.4	37.8	32.6	29.2	27.5
45°	1914.5	1432.0	295.3	108.2	75.6	51.5	39.5	30.9	24.0	22.3	20.6
47.5°	2100.0	1505.9	233.5	96.2	63.5	42.9	32.6	24.0	18.9	17.2	15.5
50°	2381.6	1674.1	190.6	85.9	53.2	36.1	25.8	18.9	13.7	12.0	12.0
52.5°	2750.8	1900.8	164.8	75.6	42.9	30.9	20.6	13.7	10.3	8.6	8.6
55°	3128.5	2168.7	154.5	65.2	36.1	25.8	15.5	10.3	6.9	5.2	5.2
57.5°	3475.4	2342.1	149.4	53.2	30.9	18.9	12.0	6.9	3.4	1.7	1.7
60°	3691.7	2469.2	133.9	42.9	24.0	15.5	8.6	3.4	1.7	0.0	0.0
62.5°	3976.7	2597.9	109.9	32.6	17.2	10.3	5.2	1.7	0.0	0.0	0.0
65°	4352.8	2742.2	85.9	25.8	13.7	6.9	3.4	1.7	0.0	0.0	0.0
67.5°	4533.1	2666.6	58.4	18.9	8.6	3.4	1.7	0.0	0.0	0.0	0.0
70°	4172.5	2245.9	41.2	13.7	5.2	1.7	1.7	0.0	0.0	0.0	0.0
72.5°	3508.0	1760.0	30.9	8.6	3.4	1.7	0.0	0.0	0.0	0.0	0.0
75°	2585.9	1100.6	24.0	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1371.9	410.4	17.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	405.2	120.2	12.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	133.9	36.1	6.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	68.7	13.7	3.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	39.5	5.2	3.4	3.4	1.7	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)