

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: P677046

Luminaire Tested: **CCW-SA-2C-830-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677046
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-830-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL3 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

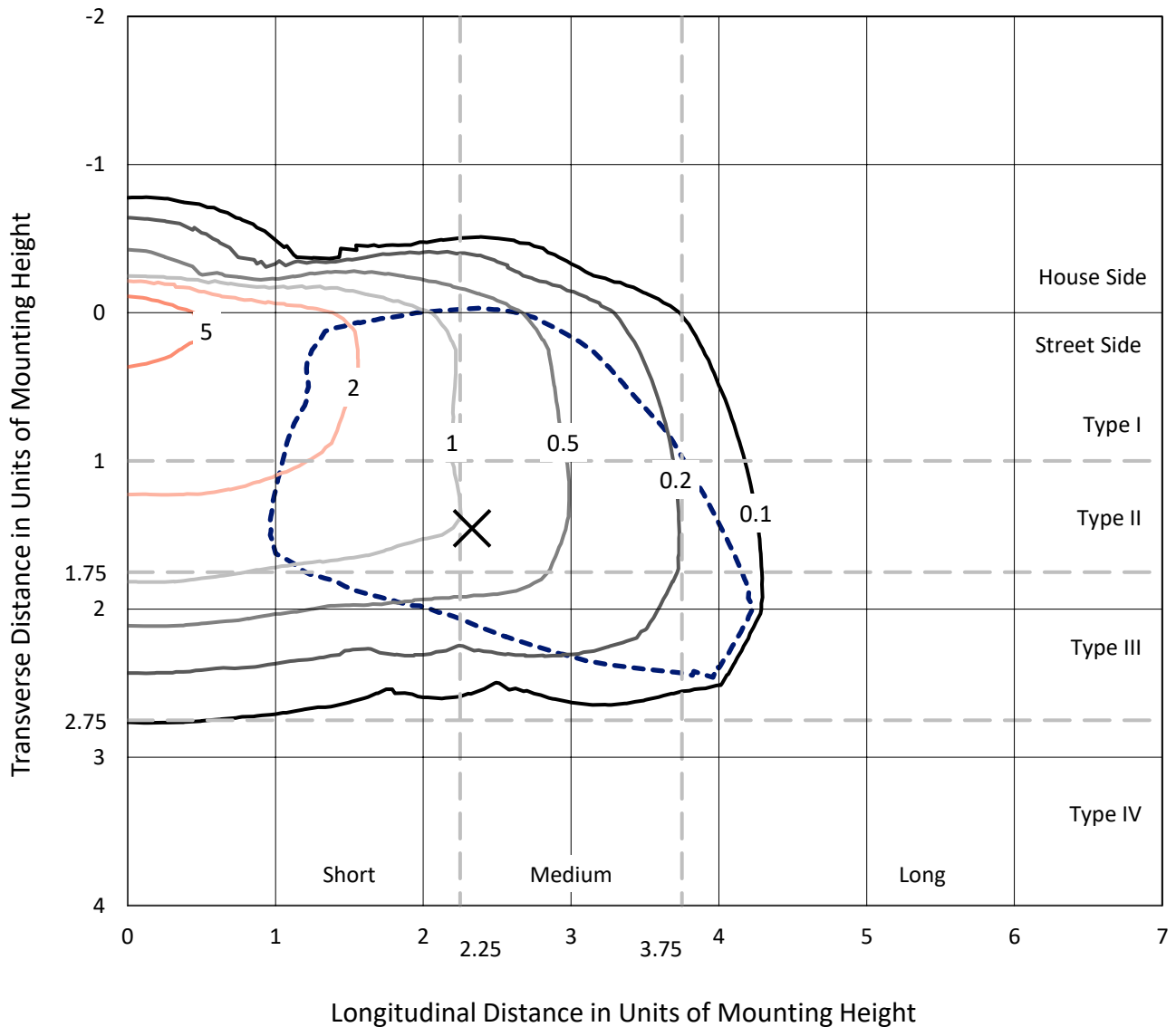
Lumens per Lamp: N/A
Luminaire Lumens: 5936.8 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): 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

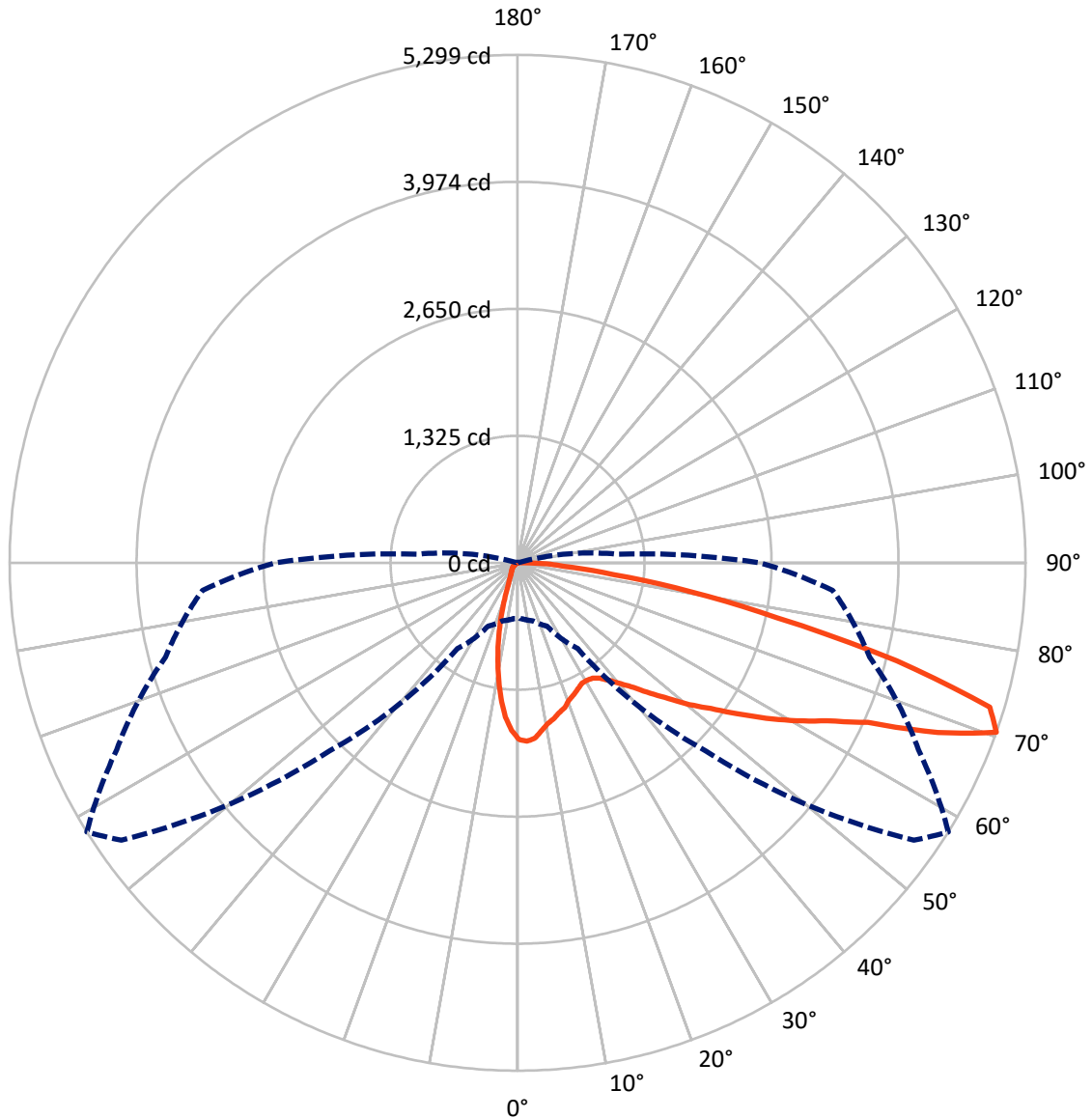
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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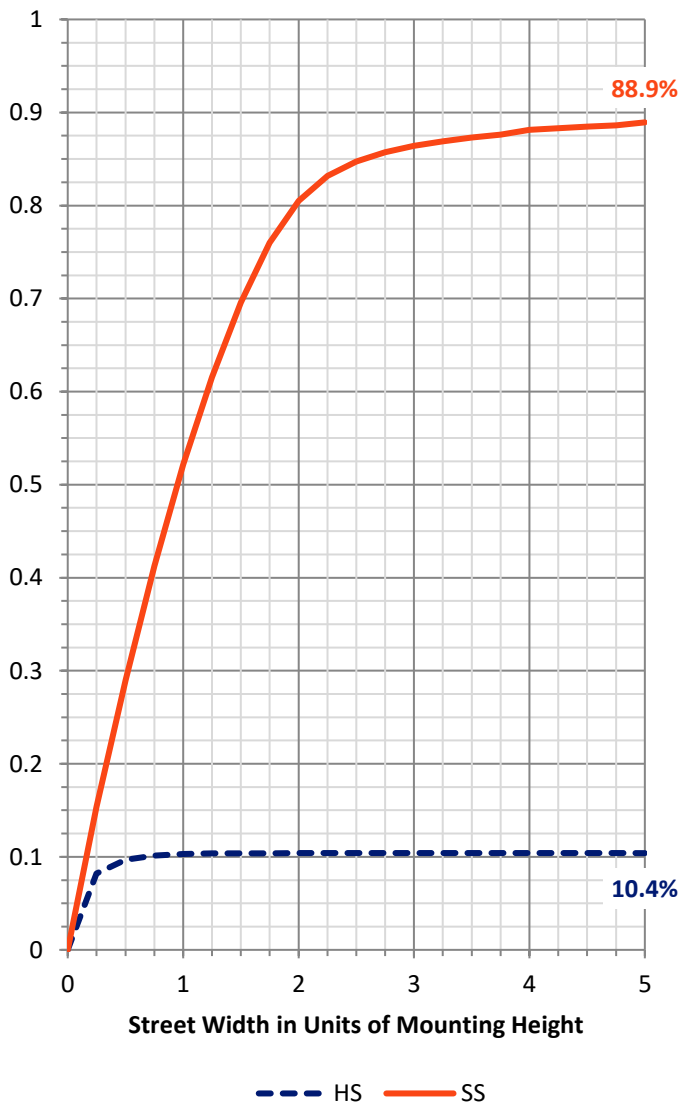
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.7	0.0	621.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5315.1	0.0	5315.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	5936.8	0.0	5936.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	2.5
10°-20°	313.1	5.3
20°-30°	419.2	7.1
30°-40°	566.6	9.5
40°-50°	813.3	13.7
50°-60°	1198.5	20.2
60°-70°	1461.8	24.6
70°-80°	892.7	15.0
80°-90°	121.3	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°	5936.8	100.0
0°-180°	5936.8	100.0

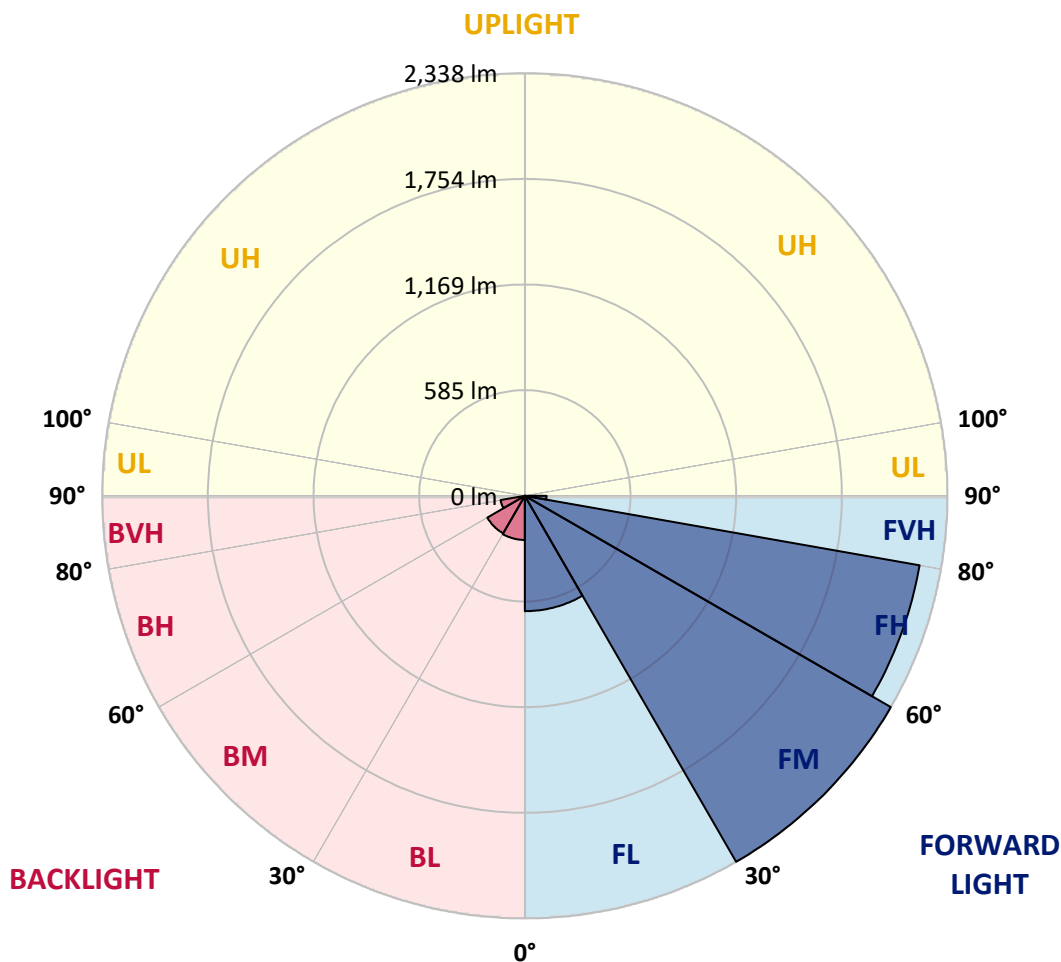


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.3	10.8			
FM (30°-60°)	2338.5	39.4			
FH (60°-80°)	2218.3	37.4			G2/5000
FVH (80°-90°)	120.1	2.0			G2/225
BL (0°-30°)	244.3	4.1	B1/500		
BM (30°-60°)	239.9	4.0	B1/1000		
BH (60°-80°)	136.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0
2.5°	1876.4	1883.3	1866.6	1886.1	1868.0	1876.4	1866.6	1863.8	1865.2	1866.6	1855.5
5°	1788.7	1805.4	1812.3	1801.2	1827.6	1823.5	1840.2	1841.6	1834.6	1827.6	1829.0
7.5°	1673.1	1689.8	1696.8	1703.8	1730.2	1765.0	1787.3	1773.4	1784.5	1809.6	1772.0
10°	1589.6	1585.4	1584.1	1598.0	1648.1	1677.3	1714.9	1710.7	1738.6	1762.2	1731.6
12.5°	1486.6	1478.3	1503.3	1514.5	1559.0	1610.5	1639.7	1670.4	1698.2	1723.3	1688.5
15°	1410.1	1417.0	1426.8	1450.4	1482.4	1550.6	1593.8	1623.0	1673.1	1685.7	1671.7
17.5°	1348.8	1354.4	1368.3	1380.8	1421.2	1486.6	1554.8	1589.6	1642.5	1675.9	1632.8
20°	1350.2	1333.5	1333.5	1346.0	1368.3	1446.3	1518.6	1529.8	1602.2	1659.2	1630.0
22.5°	1351.6	1346.0	1333.5	1332.1	1341.9	1397.5	1471.3	1496.4	1574.3	1641.1	1606.3
25°	1371.1	1350.2	1351.6	1332.1	1336.3	1364.1	1422.6	1460.2	1549.3	1650.9	1593.8
27.5°	1387.8	1397.5	1378.0	1369.7	1346.0	1344.6	1393.4	1425.4	1536.7	1673.1	1602.2
30°	1425.4	1432.3	1432.3	1426.8	1404.5	1372.5	1383.6	1424.0	1511.7	1669.0	1588.2
32.5°	1488.0	1475.5	1492.2	1483.8	1454.6	1404.5	1414.2	1435.1	1527.0	1721.9	1610.5
35°	1508.9	1518.6	1540.9	1522.8	1513.1	1483.8	1464.3	1479.7	1549.3	1774.8	1643.9
37.5°	1572.9	1559.0	1574.3	1614.7	1624.4	1571.5	1533.9	1556.2	1632.8	1837.4	1674.5
40°	1578.5	1589.6	1617.5	1696.8	1706.5	1684.3	1653.7	1659.2	1716.3	1918.1	1751.1
42.5°	1606.3	1618.9	1675.9	1742.7	1795.6	1799.8	1777.5	1777.5	1826.3	2047.6	1836.0
45°	1660.6	1639.7	1713.5	1826.3	1902.8	1918.1	1947.4	1940.4	1979.4	2184.0	1994.7
47.5°	1681.5	1688.5	1769.2	1905.6	1993.3	2064.3	2113.0	2114.4	2133.9	2358.0	2200.7
50°	1749.7	1748.3	1845.7	1972.4	2101.9	2231.3	2326.0	2326.0	2324.6	2527.8	2377.5
52.5°	1840.2	1837.4	1912.6	2062.9	2231.3	2394.2	2519.5	2523.6	2555.6	2736.6	2580.7
55°	1987.7	1975.2	2047.6	2158.9	2360.8	2558.4	2775.6	2777.0	2751.9	2885.5	2726.9
57.5°	2111.6	2110.2	2170.1	2277.3	2505.5	2770.0	3022.0	3059.5	2980.2	3038.7	2843.8
60°	2079.6	2097.7	2221.6	2380.3	2658.7	3034.5	3287.8	3346.3	3219.6	3143.1	2931.5
62.5°	1880.5	1922.3	2057.3	2310.7	2788.1	3418.7	3653.9	3627.5	3344.9	3232.1	3038.7
65°	1353.0	1394.7	1561.8	1941.8	2637.8	3690.1	4135.5	4015.8	3567.6	3364.4	3182.0
67.5°	796.2	812.9	917.3	1238.8	1972.4	3542.5	4720.1	4729.9	4006.1	3567.6	3429.8
70°	574.9	587.4	627.8	730.8	1092.7	2777.0	5045.9	5299.2	4614.4	3801.5	3299.0
72.5°	441.3	441.3	509.5	608.3	696.0	1663.4	4643.6	5151.7	4746.6	3577.3	2658.7
75°	317.4	325.7	399.5	523.4	641.7	835.2	3421.4	4088.2	4022.8	2899.5	1856.9
77.5°	182.3	186.5	281.2	438.5	602.7	573.5	2114.4	2771.4	2849.4	1815.1	804.6
80°	93.3	96.0	157.3	346.6	545.6	499.7	1261.1	1824.9	1547.9	527.6	186.5
82.5°	45.9	45.9	71.0	221.3	463.5	442.6	741.9	1007.8	548.4	121.1	77.9
85°	15.3	16.7	32.0	125.3	335.5	267.3	453.8	478.8	183.7	45.9	43.2
87.5°	4.2	5.6	8.4	45.9	146.2	175.4	270.0	306.2	75.2	18.1	20.9
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°	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0
2.5°	1813.7	1804.0	1792.8	1765.0	1742.7	1713.5	1694.0	1678.7	1649.5	1655.0	1642.5
5°	1795.6	1777.5	1713.5	1652.3	1596.6	1511.7	1453.2	1415.6	1385.0	1354.4	1376.7
7.5°	1763.6	1720.5	1620.2	1506.1	1387.8	1276.4	1165.1	1098.3	1049.5	1005.0	1003.6
10°	1709.3	1639.7	1482.4	1333.5	1151.2	1005.0	863.0	751.7	679.3	626.4	625.0
12.5°	1648.1	1575.7	1378.0	1135.8	925.7	719.6	549.8	431.5	363.3	321.5	316.0
15°	1609.1	1503.3	1247.2	960.5	700.2	469.1	304.8	231.1	204.6	194.9	194.9
17.5°	1559.0	1437.9	1117.7	778.1	485.8	271.4	197.7	178.2	176.8	174.0	171.2
20°	1538.1	1387.8	1002.2	620.8	307.6	192.1	169.8	165.6	165.6	162.9	160.1
22.5°	1482.4	1315.4	879.7	455.2	204.6	168.4	160.1	154.5	151.7	148.9	151.7
25°	1457.4	1263.9	764.2	314.6	167.0	150.3	146.2	140.6	136.4	135.0	135.0
27.5°	1440.7	1212.4	651.4	218.5	147.5	137.8	129.5	125.3	119.7	114.1	114.1
30°	1428.2	1172.0	542.9	161.5	132.2	122.5	115.5	105.8	98.8	93.3	93.3
32.5°	1411.5	1124.7	434.3	137.8	119.7	110.0	97.4	89.1	79.3	75.2	75.2
35°	1417.0	1092.7	341.0	122.5	107.2	94.7	83.5	72.4	62.6	58.5	57.1
37.5°	1428.2	1069.0	258.9	110.0	96.0	82.1	69.6	57.1	51.5	45.9	45.9
40°	1475.5	1062.1	190.7	101.6	87.7	72.4	58.5	47.3	41.8	37.6	36.2
42.5°	1554.8	1071.8	147.5	91.9	79.3	61.2	48.7	39.0	33.4	29.2	27.8
45°	1656.4	1109.4	121.1	86.3	69.6	51.5	39.0	32.0	25.1	22.3	22.3
47.5°	1804.0	1167.9	105.8	79.3	61.2	43.2	33.4	25.1	19.5	16.7	16.7
50°	1971.0	1234.7	93.3	71.0	52.9	36.2	26.4	19.5	13.9	12.5	12.5
52.5°	2138.1	1319.6	86.3	65.4	45.9	29.2	20.9	13.9	9.7	8.4	8.4
55°	2313.4	1394.7	77.9	61.2	37.6	23.7	15.3	8.4	5.6	4.2	4.2
57.5°	2435.9	1424.0	68.2	52.9	29.2	18.1	11.1	5.6	2.8	1.4	1.4
60°	2523.6	1428.2	58.5	43.2	22.3	13.9	7.0	2.8	1.4	0.0	0.0
62.5°	2597.4	1436.5	50.1	33.4	16.7	9.7	4.2	1.4	0.0	0.0	0.0
65°	2743.6	1429.5	40.4	26.4	11.1	5.6	2.8	0.0	0.0	0.0	0.0
67.5°	2859.1	1359.9	32.0	18.1	7.0	2.8	1.4	0.0	0.0	0.0	0.0
70°	2529.2	1037.0	25.1	12.5	4.2	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1986.3	691.8	16.7	7.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0
75°	1302.9	343.8	12.5	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	506.7	90.5	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	122.5	30.6	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.9	11.1	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.0	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.7	2.8	1.4	1.4	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)