

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: P676936

Luminaire Tested: **CCW-SA-2D-850-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676936
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-850-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) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

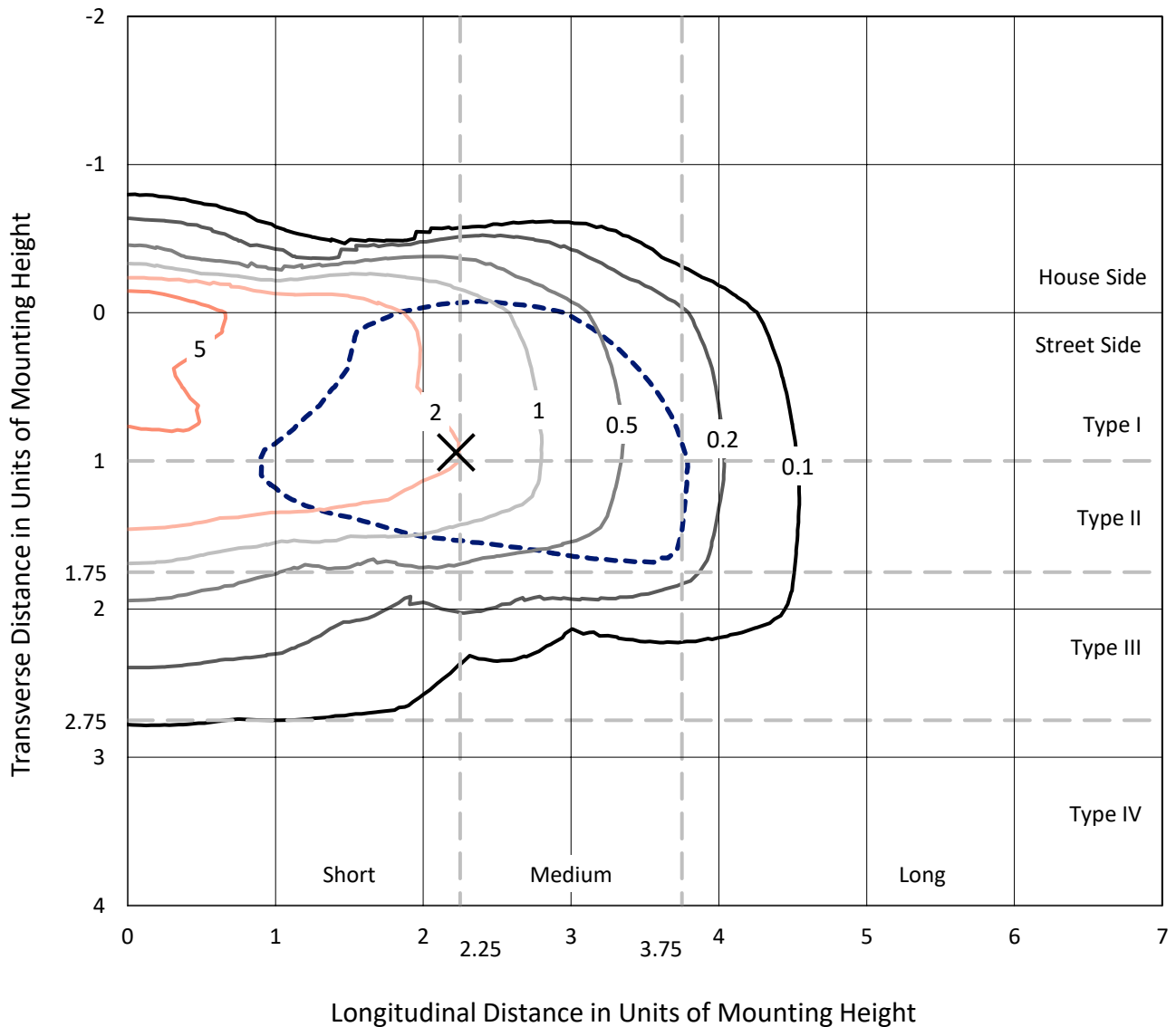
Lumens per Lamp: N/A
Luminaire Lumens: 7826 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (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

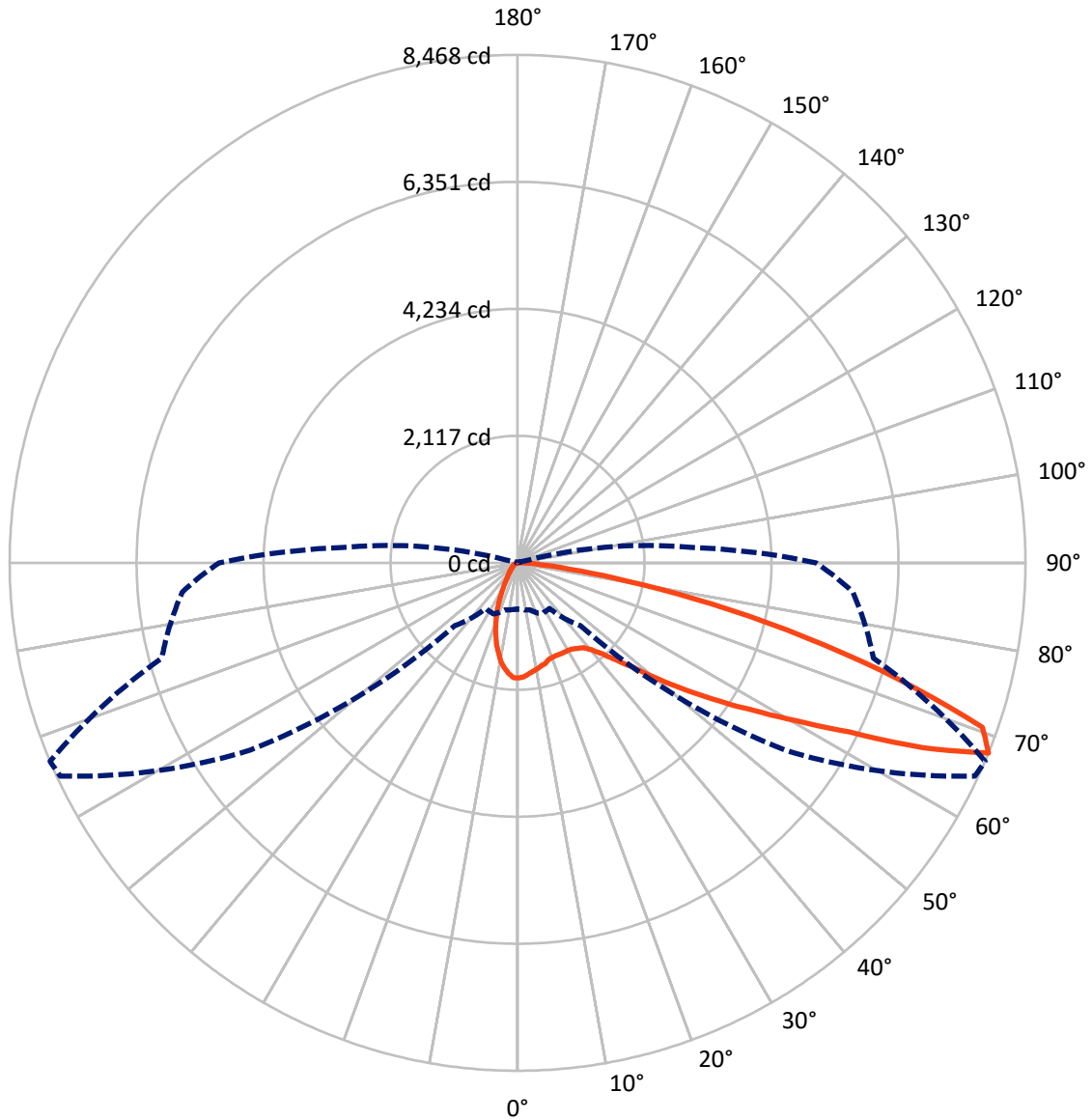
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.5 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
House Side	Lumens	985.0	0.0	985.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	6841.1	0.0	6841.1
	% Fixture	87.4	0.0	87.4
Total	Lumens	7826.0	0.0	7826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	2.1
10°-20°	359.3	4.6
20°-30°	510.9	6.5
30°-40°	743.9	9.5
40°-50°	1151.4	14.7
50°-60°	1767.0	22.6
60°-70°	1915.4	24.5
70°-80°	1080.6	13.8
80°-90°	135.8	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°	7826.0	100.0
0°-180°	7826.0	100.0

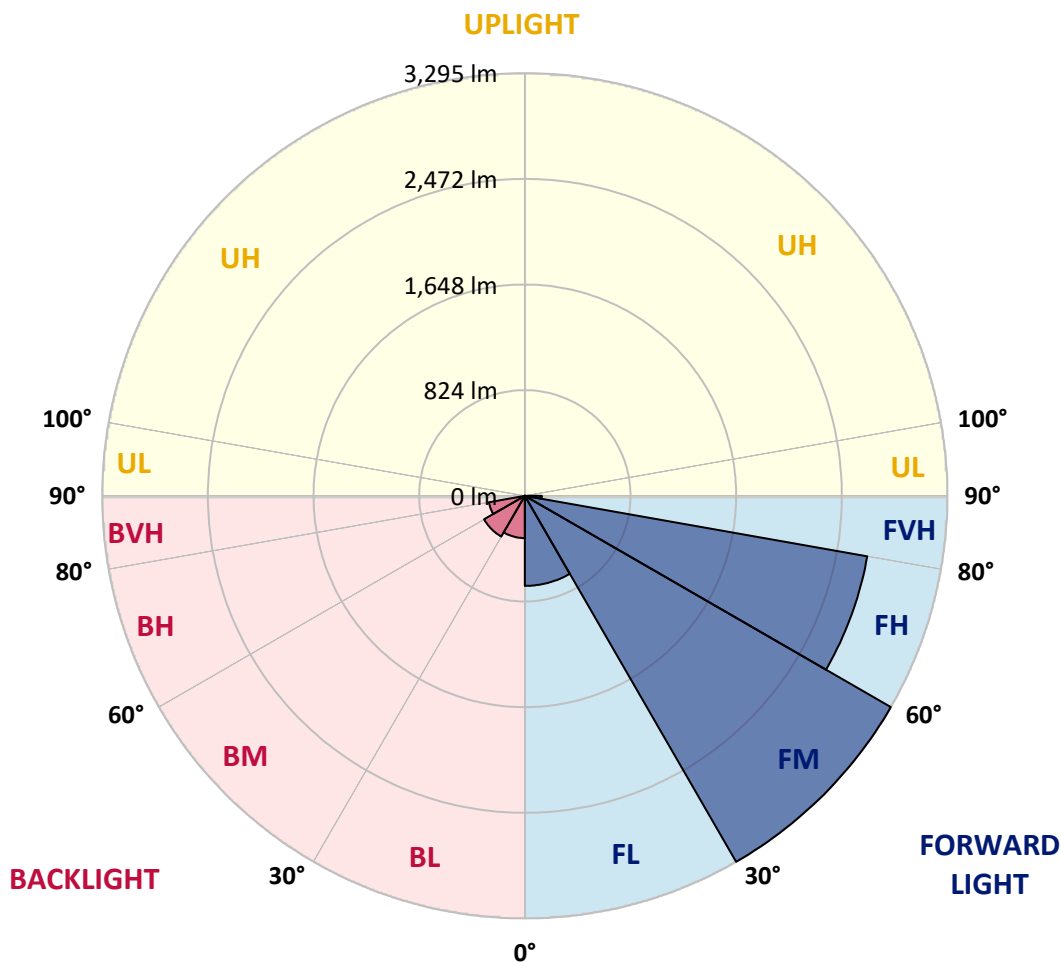


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.2	9.0			
FM (30°-60°)	3295.4	42.1			
FH (60°-80°)	2711.5	34.6			G2/5000
FVH (80°-90°)	131.9	1.7			G2/225
BL (0°-30°)	329.7	4.2	B1/500		
BM (30°-60°)	366.9	4.7	B1/1000		
BH (60°-80°)	284.5	3.6	B1/500		G1/500
BVH (80°-90°)	3.9	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°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6
2.5°	1836.6	1846.0	1859.2	1878.1	1891.3	1883.7	1889.4	1921.5	1904.5	1919.6	1912.0
5°	1734.8	1744.2	1763.1	1761.2	1776.3	1804.5	1842.3	1883.7	1864.9	1910.1	1927.1
7.5°	1629.2	1625.4	1625.4	1665.0	1697.1	1736.7	1757.4	1825.3	1827.2	1866.8	1908.3
10°	1533.0	1544.3	1563.2	1578.3	1608.4	1665.0	1725.3	1778.1	1798.9	1878.1	1889.4
12.5°	1474.6	1480.2	1502.8	1516.0	1555.6	1610.3	1674.4	1742.3	1759.3	1840.4	1895.1
15°	1450.0	1463.2	1470.8	1495.3	1516.0	1567.0	1614.1	1691.4	1740.4	1804.5	1872.4
17.5°	1468.9	1463.2	1467.0	1474.6	1499.1	1544.3	1595.2	1672.6	1689.5	1797.0	1898.8
20°	1493.4	1495.3	1484.0	1480.2	1474.6	1517.9	1559.4	1659.4	1678.2	1797.0	1915.8
22.5°	1559.4	1538.7	1559.4	1529.2	1499.1	1517.9	1557.5	1661.2	1674.4	1795.1	1932.8
25°	1640.5	1644.3	1649.9	1585.8	1542.4	1529.2	1570.7	1666.9	1678.2	1810.2	1940.3
27.5°	1755.5	1772.5	1744.2	1712.2	1625.4	1559.4	1568.8	1663.1	1683.9	1802.7	1959.2
30°	1910.1	1896.9	1900.7	1827.2	1742.3	1638.6	1612.2	1672.6	1687.6	1812.1	1995.0
32.5°	2044.0	2028.9	2055.3	2028.9	1895.1	1751.7	1663.1	1691.4	1708.4	1834.7	2025.2
35°	2127.0	2145.8	2187.3	2215.6	2102.5	1898.8	1748.0	1742.3	1749.9	1846.0	2047.8
37.5°	2255.2	2289.2	2323.1	2394.7	2296.7	2079.8	1881.9	1808.3	1795.1	1900.7	2059.1
40°	2394.7	2385.3	2485.3	2570.1	2566.3	2334.4	2068.5	1925.2	1906.4	1987.5	2134.5
42.5°	2511.7	2502.2	2613.5	2753.0	2768.1	2579.5	2281.6	2091.2	2074.2	2121.3	2226.9
45°	2664.4	2671.9	2803.9	2969.9	3024.5	2903.9	2570.1	2328.8	2319.3	2304.2	2402.3
47.5°	2800.2	2841.6	2954.8	3150.9	3348.9	3239.5	2909.5	2675.7	2609.7	2575.8	2673.8
50°	2894.4	2932.2	3069.8	3279.1	3641.1	3710.9	3290.4	3045.3	3047.2	2964.2	3017.0
52.5°	2894.4	2892.6	3003.8	3279.1	3844.8	4203.1	3799.5	3511.0	3526.1	3439.4	3443.2
55°	2615.4	2609.7	2745.5	3037.7	3822.2	4676.4	4570.8	4101.2	4063.5	3895.7	3912.7
57.5°	2106.2	2119.4	2223.2	2573.9	3528.0	4897.0	5489.1	4765.0	4636.8	4289.8	4289.8
60°	1536.8	1525.5	1602.8	1847.9	2826.6	4814.0	6243.3	5547.5	5345.8	4616.0	4567.0
62.5°	1169.1	1167.2	1187.9	1270.9	1793.2	4197.4	6567.6	6543.1	6215.0	4936.6	4866.8
65°	944.7	948.5	976.8	1035.2	1095.5	2862.4	6396.1	7731.1	7431.3	5413.6	5185.5
67.5°	771.2	780.7	814.6	940.9	927.7	1482.1	5447.6	8411.8	8468.4	6141.5	5613.5
70°	594.0	609.1	648.7	827.8	893.8	986.2	3776.9	8072.4	8223.2	6594.0	5355.2
72.5°	403.5	401.6	486.5	671.3	903.2	903.2	2102.5	6501.6	6645.0	6079.3	4651.8
75°	218.7	231.9	322.4	507.2	827.8	873.0	1197.4	4757.4	4959.2	4727.3	3597.8
77.5°	118.8	120.7	179.1	331.9	688.3	833.4	799.5	3235.7	3314.9	2851.1	1970.5
80°	62.2	64.1	94.3	216.8	475.2	773.1	665.6	1929.0	1853.6	1093.7	650.5
82.5°	28.3	30.2	47.1	135.8	303.6	609.1	575.1	931.5	859.8	305.5	198.0
85°	11.3	11.3	20.7	81.1	177.2	299.8	492.1	467.6	390.3	92.4	98.1
87.5°	3.8	3.8	5.7	32.1	71.7	179.1	262.1	247.0	169.7	33.9	52.8
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°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6
2.5°	1904.5	1925.2	1919.6	1915.8	1880.0	1876.2	1872.4	1838.5	1849.8	1821.5	1840.4
5°	1915.8	1927.1	1896.9	1840.4	1789.5	1732.9	1689.5	1659.4	1604.7	1583.9	1580.2
7.5°	1904.5	1904.5	1842.3	1751.7	1651.8	1559.4	1442.5	1359.5	1297.3	1250.2	1267.1
10°	1889.4	1866.8	1802.7	1642.4	1461.4	1321.8	1154.0	1031.4	939.0	908.9	890.0
12.5°	1889.4	1849.8	1706.5	1487.8	1253.9	1042.8	842.9	682.6	594.0	541.2	533.6
15°	1872.4	1814.0	1636.7	1342.6	1052.2	765.6	537.4	399.8	324.3	303.6	296.0
17.5°	1876.2	1806.4	1533.0	1171.0	816.5	509.1	328.1	252.7	233.8	224.4	226.3
20°	1883.7	1806.4	1440.6	1003.2	588.3	316.8	226.3	213.1	203.6	199.9	201.8
22.5°	1908.3	1770.6	1346.3	831.6	397.9	228.2	199.9	186.7	179.1	173.5	171.6
25°	1912.0	1764.9	1255.8	661.9	273.4	192.3	175.4	160.3	150.9	143.3	141.4
27.5°	1906.4	1740.4	1129.5	492.1	205.5	171.6	149.0	133.9	120.7	115.0	113.1
30°	1927.1	1695.2	1022.0	354.5	173.5	149.0	126.3	109.4	98.1	90.5	90.5
32.5°	1929.0	1655.6	903.2	252.7	158.4	132.0	107.5	88.6	77.3	73.5	73.5
35°	1930.9	1619.8	771.2	192.3	141.4	113.1	88.6	73.5	66.0	60.3	60.3
37.5°	1936.5	1593.4	650.5	162.2	126.3	96.2	73.5	60.3	52.8	50.9	50.9
40°	1947.9	1557.5	524.2	143.3	109.4	81.1	62.2	50.9	43.4	41.5	39.6
42.5°	1978.0	1548.1	418.6	128.2	98.1	67.9	50.9	41.5	35.8	32.1	30.2
45°	2102.5	1572.6	324.3	118.8	83.0	56.6	43.4	33.9	26.4	24.5	22.6
47.5°	2306.1	1653.7	256.4	105.6	69.8	47.1	35.8	26.4	20.7	18.9	17.0
50°	2615.4	1838.5	209.3	94.3	58.5	39.6	28.3	20.7	15.1	13.2	13.2
52.5°	3020.8	2087.4	181.0	83.0	47.1	33.9	22.6	15.1	11.3	9.4	9.4
55°	3435.6	2381.5	169.7	71.7	39.6	28.3	17.0	11.3	7.5	5.7	5.7
57.5°	3816.5	2572.0	164.0	58.5	33.9	20.7	13.2	7.5	3.8	1.9	1.9
60°	4054.1	2711.5	147.1	47.1	26.4	17.0	9.4	3.8	1.9	0.0	0.0
62.5°	4367.1	2853.0	120.7	35.8	18.9	11.3	5.7	1.9	0.0	0.0	0.0
65°	4780.1	3011.3	94.3	28.3	15.1	7.5	3.8	1.9	0.0	0.0	0.0
67.5°	4978.1	2928.4	64.1	20.7	9.4	3.8	1.9	0.0	0.0	0.0	0.0
70°	4582.1	2466.4	45.3	15.1	5.7	1.9	1.9	0.0	0.0	0.0	0.0
72.5°	3852.3	1932.8	33.9	9.4	3.8	1.9	0.0	0.0	0.0	0.0	0.0
75°	2839.8	1208.7	26.4	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1506.6	450.7	18.9	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	445.0	132.0	13.2	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	147.1	39.6	7.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	75.4	15.1	3.8	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.4	5.7	3.8	3.8	1.9	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)