

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: P676848

Luminaire Tested: **CCW-SA-2D-735-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676848
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-735-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) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

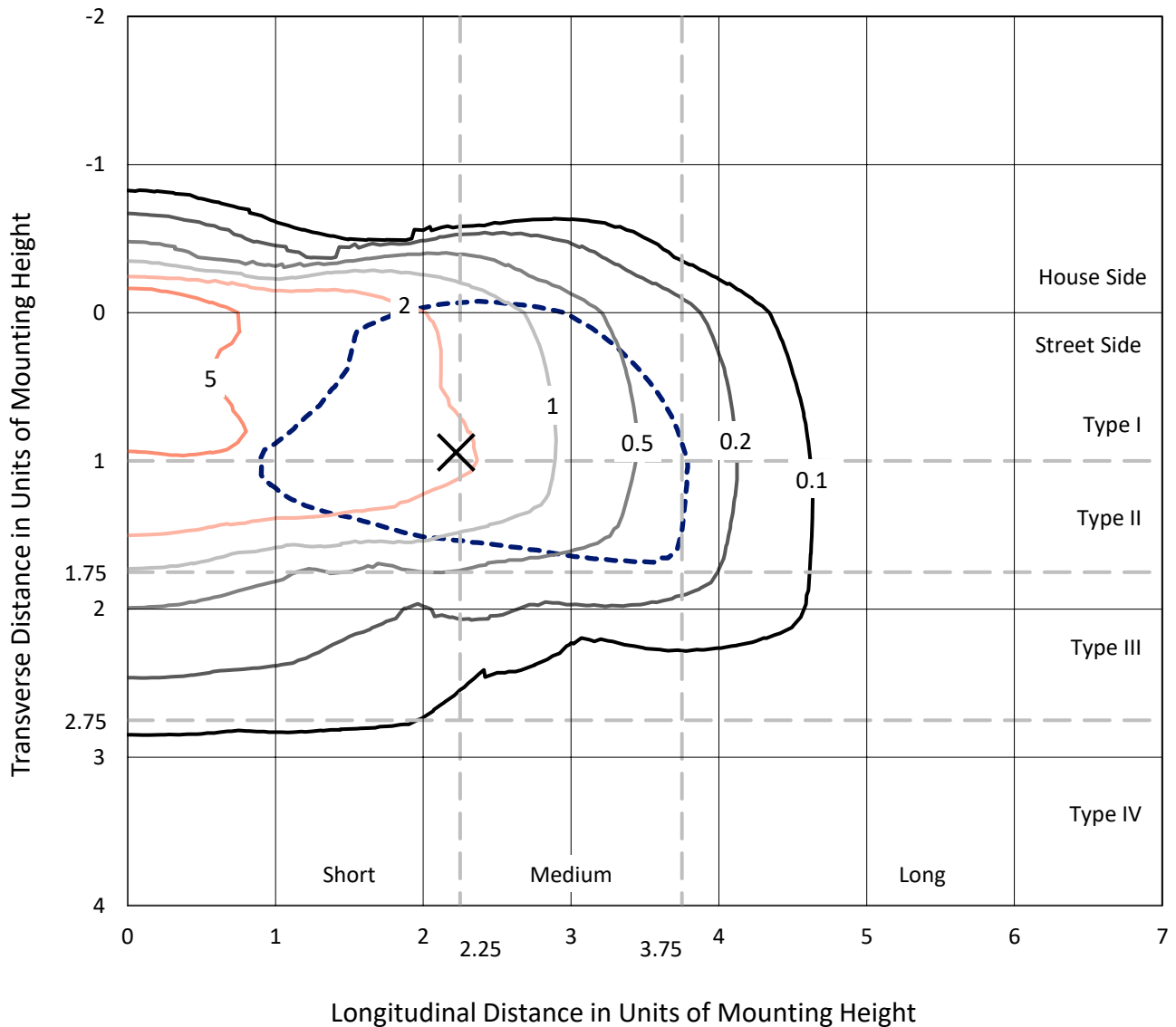
Lumens per Lamp: N/A
Luminaire Lumens: 8845.7 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

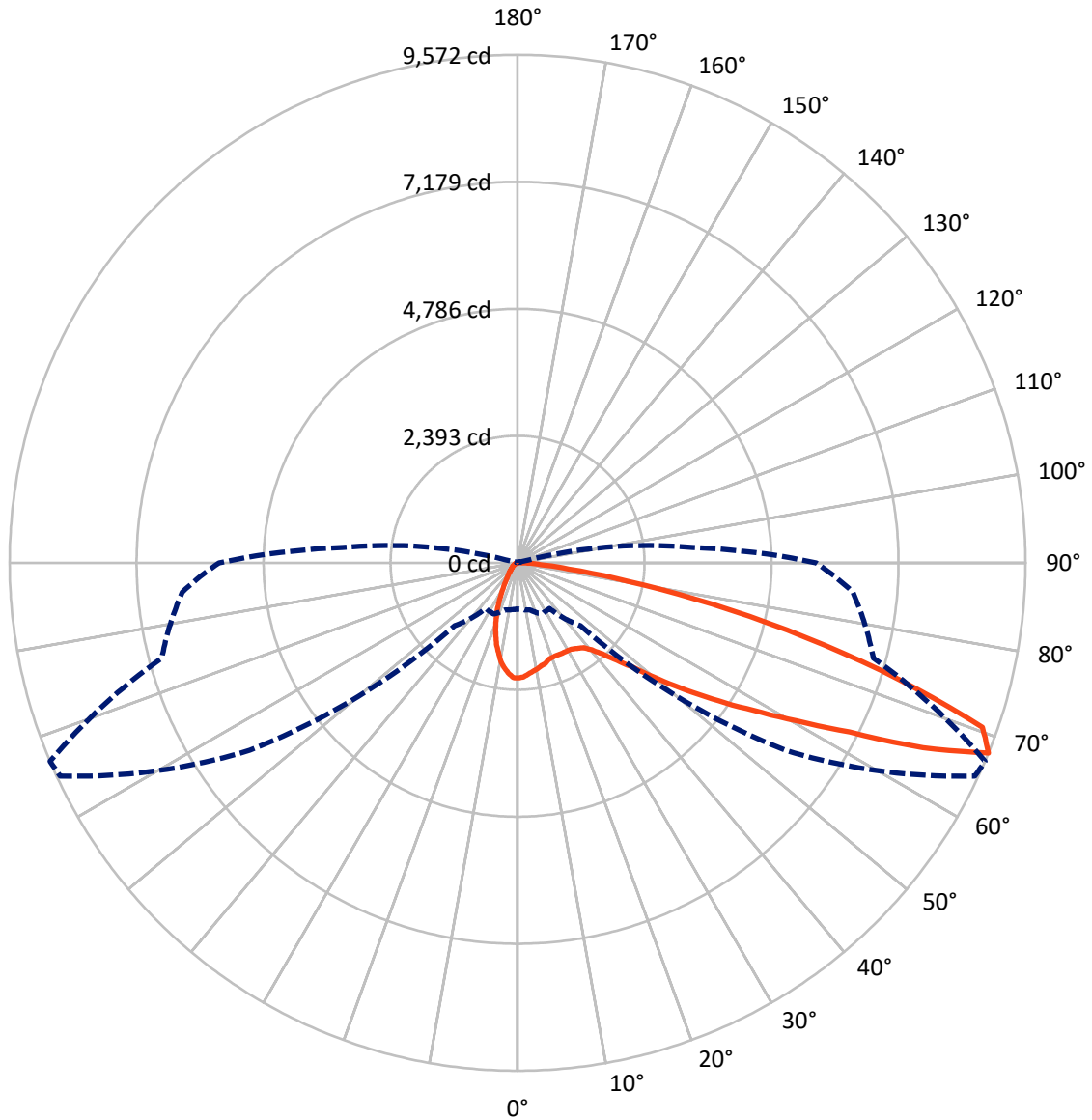
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.6 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	1113.3	0.0	1113.3
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	7732.4	0.0	7732.4
	% Fixture	87.4	0.0	87.4
Total	Lumens	8845.7	0.0	8845.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	2.1
10°-20°	406.1	4.6
20°-30°	577.5	6.5
30°-40°	840.9	9.5
40°-50°	1301.4	14.7
50°-60°	1997.2	22.6
60°-70°	2165.0	24.5
70°-80°	1221.4	13.8
80°-90°	153.5	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°	8845.7	100.0
0°-180°	8845.7	100.0

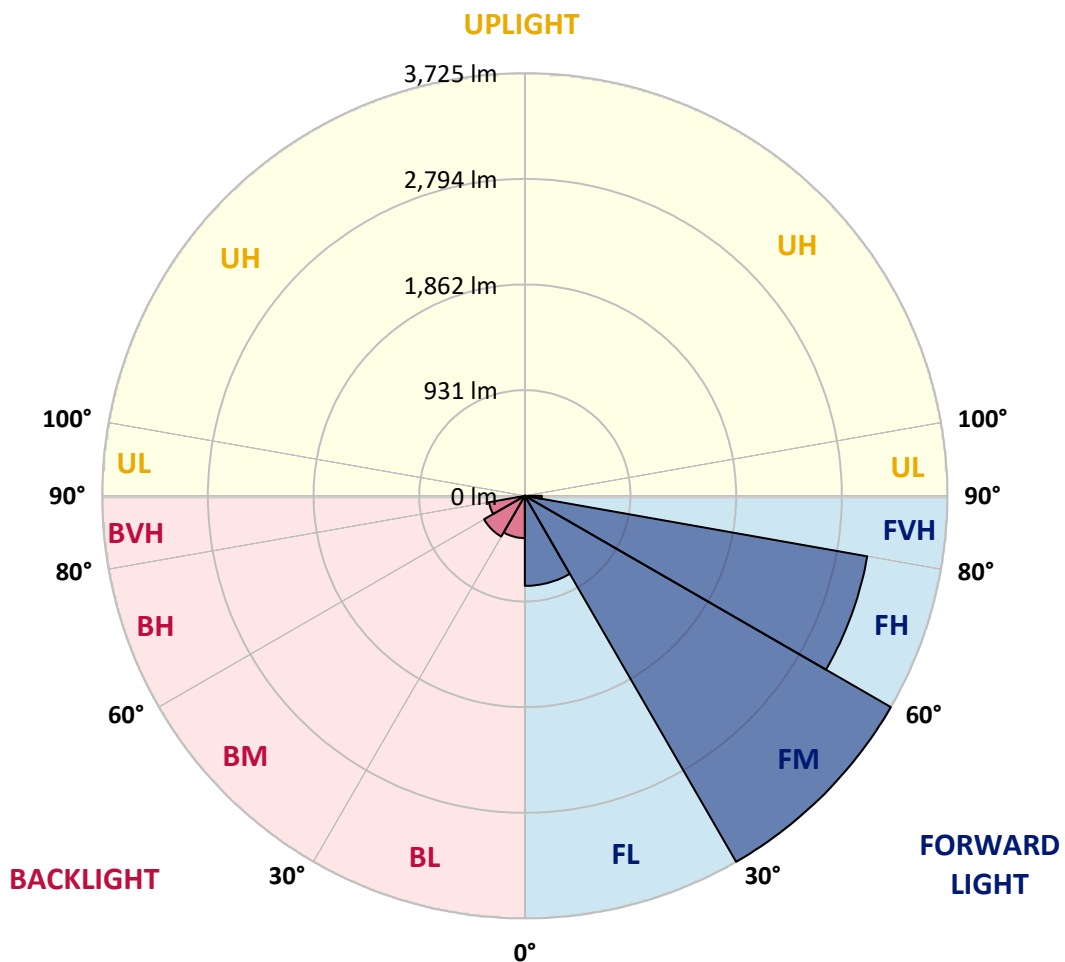


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.7	9.0			
FM (30°-60°)	3724.8	42.1			
FH (60°-80°)	3064.9	34.6			G2/5000
FVH (80°-90°)	149.1	1.7			G2/225
BL (0°-30°)	372.7	4.2	B1/500		
BM (30°-60°)	414.7	4.7	B1/1000		
BH (60°-80°)	321.6	3.6	B1/500		G1/500
BVH (80°-90°)	4.4	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°	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7
2.5°	2075.9	2086.6	2101.5	2122.8	2137.7	2129.2	2135.6	2171.8	2152.6	2169.7	2161.2
5°	1960.8	1971.5	1992.8	1990.7	2007.7	2039.7	2082.3	2129.2	2107.9	2159.0	2178.2
7.5°	1841.5	1837.2	1837.2	1882.0	1918.2	1963.0	1986.4	2063.1	2065.3	2110.0	2156.9
10°	1732.8	1745.6	1766.9	1783.9	1818.0	1882.0	1950.2	2009.8	2033.3	2122.8	2135.6
12.5°	1666.7	1673.1	1698.7	1713.6	1758.3	1820.2	1892.6	1969.3	1988.5	2080.2	2142.0
15°	1639.0	1653.9	1662.4	1690.1	1713.6	1771.1	1824.4	1911.8	1967.2	2039.7	2116.4
17.5°	1660.3	1653.9	1658.2	1666.7	1694.4	1745.6	1803.1	1890.5	1909.7	2031.2	2146.2
20°	1688.0	1690.1	1677.4	1673.1	1666.7	1715.7	1762.6	1875.6	1896.9	2031.2	2165.4
22.5°	1762.6	1739.2	1762.6	1728.5	1694.4	1715.7	1760.5	1877.7	1892.6	2029.0	2184.6
25°	1854.3	1858.5	1864.9	1792.4	1743.4	1728.5	1775.4	1884.1	1896.9	2046.1	2193.1
27.5°	1984.3	2003.4	1971.5	1935.2	1837.2	1762.6	1773.3	1879.8	1903.3	2037.5	2214.4
30°	2159.0	2144.1	2148.4	2065.3	1969.3	1852.1	1822.3	1890.5	1907.5	2048.2	2254.9
32.5°	2310.4	2293.3	2323.1	2293.3	2142.0	1980.0	1879.8	1911.8	1931.0	2073.8	2289.0
35°	2404.1	2425.4	2472.3	2504.3	2376.4	2146.2	1975.7	1969.3	1977.9	2086.6	2314.6
37.5°	2549.1	2587.4	2625.8	2706.8	2596.0	2350.9	2127.1	2043.9	2029.0	2148.4	2327.4
40°	2706.8	2696.1	2809.1	2905.0	2900.7	2638.6	2338.1	2176.1	2154.8	2246.4	2412.7
42.5°	2838.9	2828.3	2954.0	3111.7	3128.8	2915.7	2578.9	2363.6	2344.5	2397.7	2517.1
45°	3011.6	3020.1	3169.3	3356.8	3418.6	3282.2	2905.0	2632.2	2621.5	2604.5	2715.3
47.5°	3165.0	3211.9	3339.8	3561.4	3785.2	3661.6	3288.6	3024.4	2949.8	2911.4	3022.2
50°	3271.6	3314.2	3469.8	3706.4	4115.6	4194.4	3719.2	3442.1	3444.2	3350.4	3410.1
52.5°	3271.6	3269.5	3395.2	3706.4	4345.8	4750.7	4294.6	3968.5	3985.6	3887.5	3891.8
55°	2956.1	2949.8	3103.2	3433.6	4320.2	5285.7	5166.3	4635.6	4593.0	4403.3	4422.5
57.5°	2380.7	2395.6	2512.8	2909.3	3987.7	5535.1	6204.3	5385.9	5240.9	4848.8	4848.8
60°	1737.0	1724.2	1811.6	2088.7	3194.9	5441.3	7056.8	6270.4	6042.3	5217.5	5162.1
62.5°	1321.4	1319.3	1342.7	1436.5	2026.9	4744.3	7423.4	7395.7	7024.9	5579.8	5501.0
65°	1067.8	1072.1	1104.0	1170.1	1238.3	3235.4	7229.5	8738.4	8399.6	6119.0	5861.1
67.5°	871.7	882.4	920.7	1063.5	1048.6	1675.2	6157.4	9507.8	9571.8	6941.7	6345.0
70°	671.4	688.4	733.2	935.7	1010.2	1114.7	4269.0	9124.2	9294.7	7453.2	6053.0
72.5°	456.1	454.0	549.9	758.8	1020.9	1020.9	2376.4	7348.8	7510.8	6871.4	5258.0
75°	247.2	262.2	364.5	573.3	935.7	986.8	1353.4	5377.3	5605.4	5343.2	4066.6
77.5°	134.3	136.4	202.5	375.1	777.9	942.0	903.7	3657.4	3746.9	3222.6	2227.2
80°	70.3	72.5	106.6	245.1	537.1	873.8	752.4	2180.3	2095.1	1236.2	735.3
82.5°	32.0	34.1	53.3	153.5	343.1	688.4	650.1	1052.9	971.9	345.3	223.8
85°	12.8	12.8	23.4	91.6	200.3	338.9	556.3	528.6	441.2	104.4	110.8
87.5°	4.3	4.3	6.4	36.2	81.0	202.5	296.3	279.2	191.8	38.4	59.7
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°	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7
2.5°	2152.6	2176.1	2169.7	2165.4	2124.9	2120.7	2116.4	2078.0	2090.8	2058.9	2080.2
5°	2165.4	2178.2	2144.1	2080.2	2022.6	1958.7	1909.7	1875.6	1813.8	1790.3	1786.1
7.5°	2152.6	2152.6	2082.3	1980.0	1867.0	1762.6	1630.5	1536.7	1466.4	1413.1	1432.3
10°	2135.6	2110.0	2037.5	1856.4	1651.8	1494.1	1304.4	1165.8	1061.4	1027.3	1006.0
12.5°	2135.6	2090.8	1928.9	1681.6	1417.3	1178.6	952.7	771.5	671.4	611.7	603.2
15°	2116.4	2050.3	1850.0	1517.5	1189.3	865.3	607.4	451.8	366.6	343.1	334.6
17.5°	2120.7	2041.8	1732.8	1323.6	922.9	575.5	370.9	285.6	264.3	253.6	255.8
20°	2129.2	2041.8	1628.3	1133.9	665.0	358.1	255.8	240.8	230.2	225.9	228.1
22.5°	2156.9	2001.3	1521.8	939.9	449.7	257.9	225.9	211.0	202.5	196.1	194.0
25°	2161.2	1994.9	1419.5	748.1	309.0	217.4	198.2	181.2	170.5	162.0	159.8
27.5°	2154.8	1967.2	1276.7	556.3	232.3	194.0	168.4	151.3	136.4	130.0	127.9
30°	2178.2	1916.1	1155.2	400.7	196.1	168.4	142.8	123.6	110.8	102.3	102.3
32.5°	2180.3	1871.3	1020.9	285.6	179.0	149.2	121.5	100.2	87.4	83.1	83.1
35°	2182.5	1830.8	871.7	217.4	159.8	127.9	100.2	83.1	74.6	68.2	68.2
37.5°	2188.9	1801.0	735.3	183.3	142.8	108.7	83.1	68.2	59.7	57.5	57.5
40°	2201.7	1760.5	592.5	162.0	123.6	91.6	70.3	57.5	49.0	46.9	44.8
42.5°	2235.8	1749.8	473.2	144.9	110.8	76.7	57.5	46.9	40.5	36.2	34.1
45°	2376.4	1777.5	366.6	134.3	93.8	63.9	49.0	38.4	29.8	27.7	25.6
47.5°	2606.6	1869.2	289.9	119.4	78.9	53.3	40.5	29.8	23.4	21.3	19.2
50°	2956.1	2078.0	236.6	106.6	66.1	44.8	32.0	23.4	17.1	14.9	14.9
52.5°	3414.4	2359.4	204.6	93.8	53.3	38.4	25.6	17.1	12.8	10.7	10.7
55°	3883.3	2691.9	191.8	81.0	44.8	32.0	19.2	12.8	8.5	6.4	6.4
57.5°	4313.8	2907.1	185.4	66.1	38.4	23.4	14.9	8.5	4.3	2.1	2.1
60°	4582.4	3064.8	166.2	53.3	29.8	19.2	10.7	4.3	2.1	0.0	0.0
62.5°	4936.2	3224.7	136.4	40.5	21.3	12.8	6.4	2.1	0.0	0.0	0.0
65°	5402.9	3403.7	106.6	32.0	17.1	8.5	4.3	2.1	0.0	0.0	0.0
67.5°	5626.7	3309.9	72.5	23.4	10.7	4.3	2.1	0.0	0.0	0.0	0.0
70°	5179.1	2787.8	51.2	17.1	6.4	2.1	2.1	0.0	0.0	0.0	0.0
72.5°	4354.3	2184.6	38.4	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0
75°	3209.8	1366.2	29.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1702.9	509.4	21.3	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	503.0	149.2	14.9	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	166.2	44.8	8.5	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.3	17.1	4.3	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	49.0	6.4	4.3	4.3	2.1	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)