

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: P676859

Luminaire Tested: **CCW-SA-2D-740-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676859
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

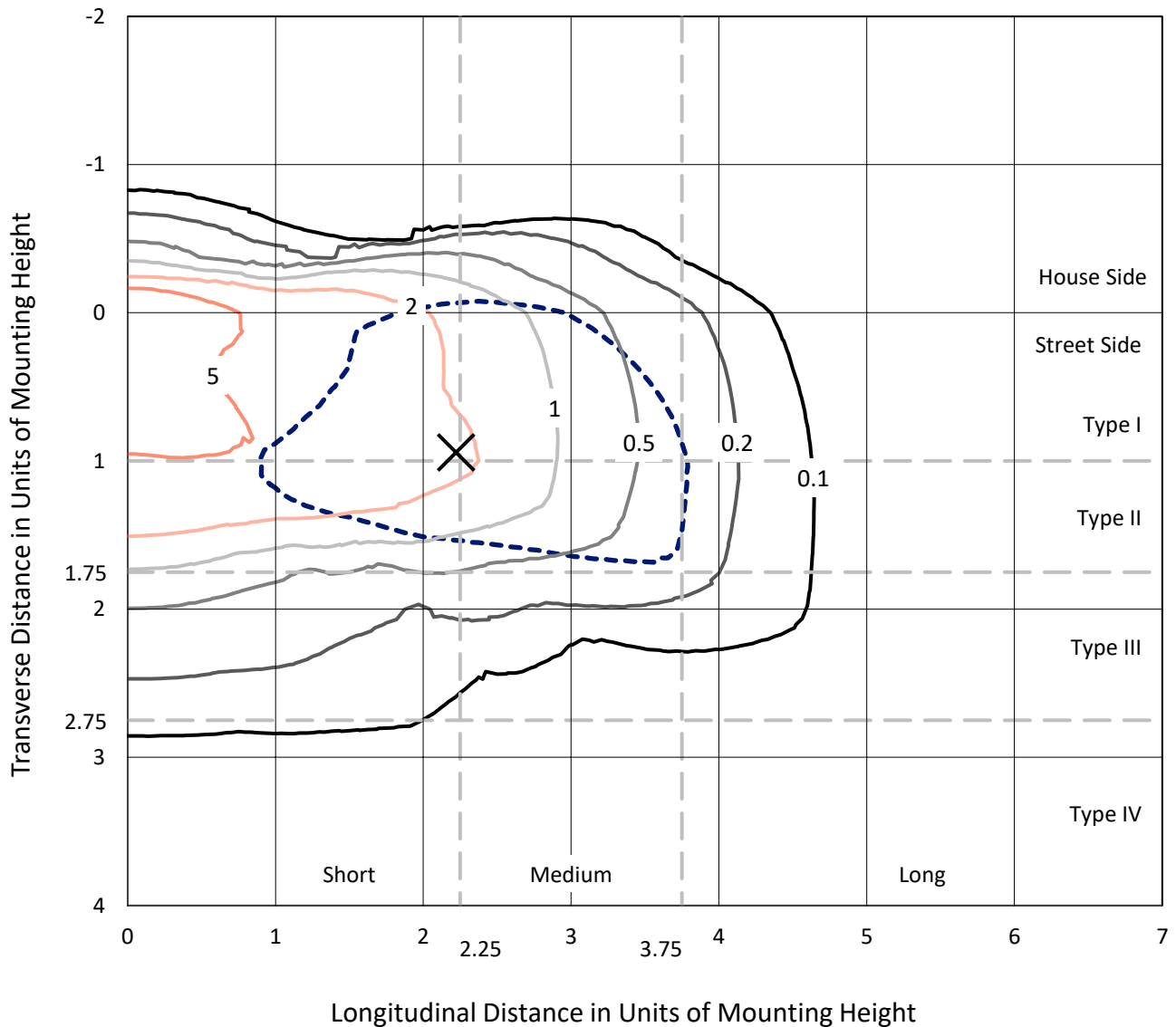
Lumens per Lamp: N/A
Luminaire Lumens: 8968.6 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

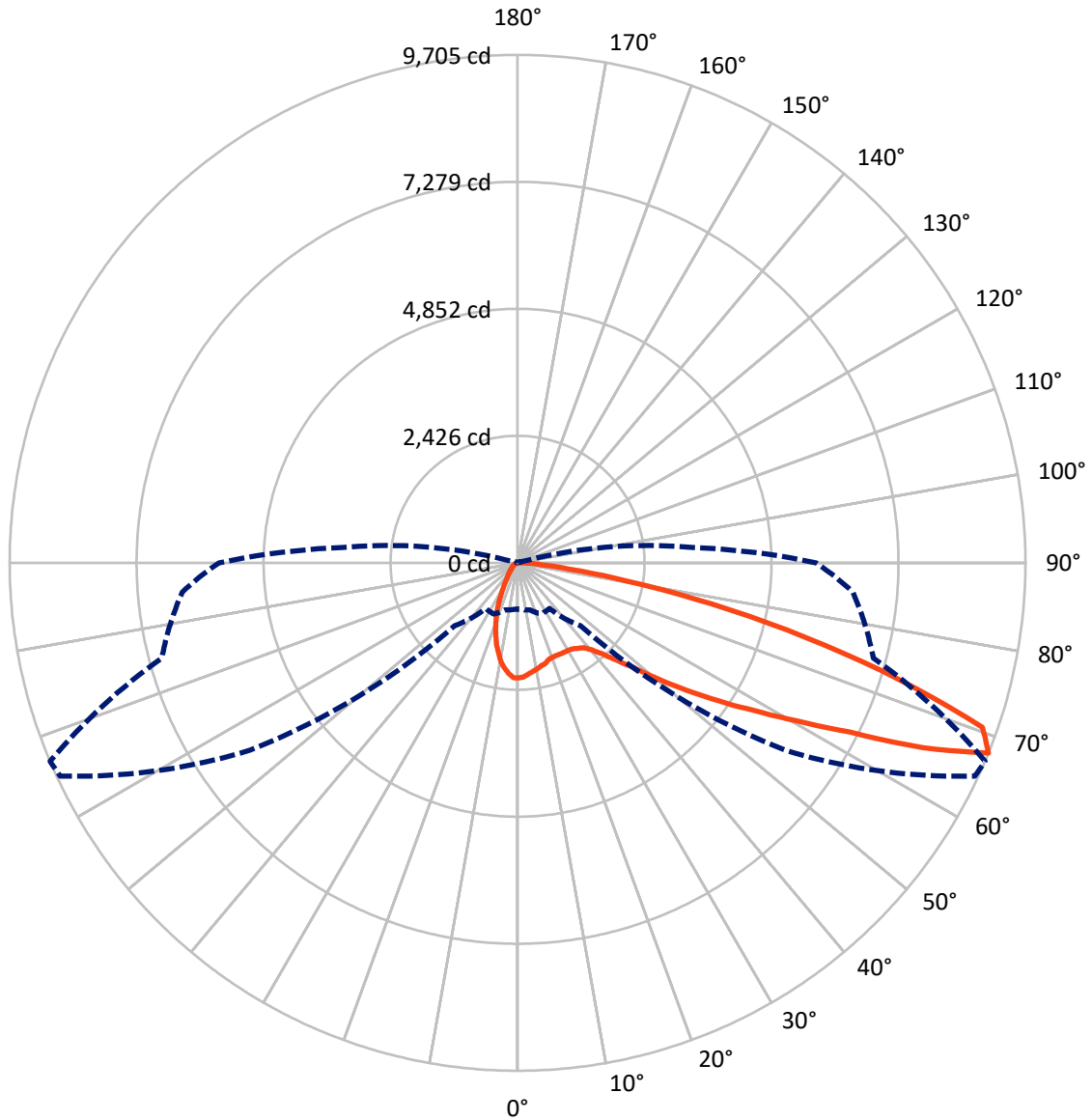
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.8 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
House Side	Lumens	1128.8	0.0	1128.8
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	7839.8	0.0	7839.8
	% Fixture	87.4	0.0	87.4
Total	Lumens	8968.6	0.0	8968.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	2.1
10°-20°	411.7	4.6
20°-30°	585.5	6.5
30°-40°	852.5	9.5
40°-50°	1319.5	14.7
50°-60°	2025.0	22.6
60°-70°	2195.1	24.5
70°-80°	1238.4	13.8
80°-90°	155.6	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°	8968.6	100.0
0°-180°	8968.6	100.0

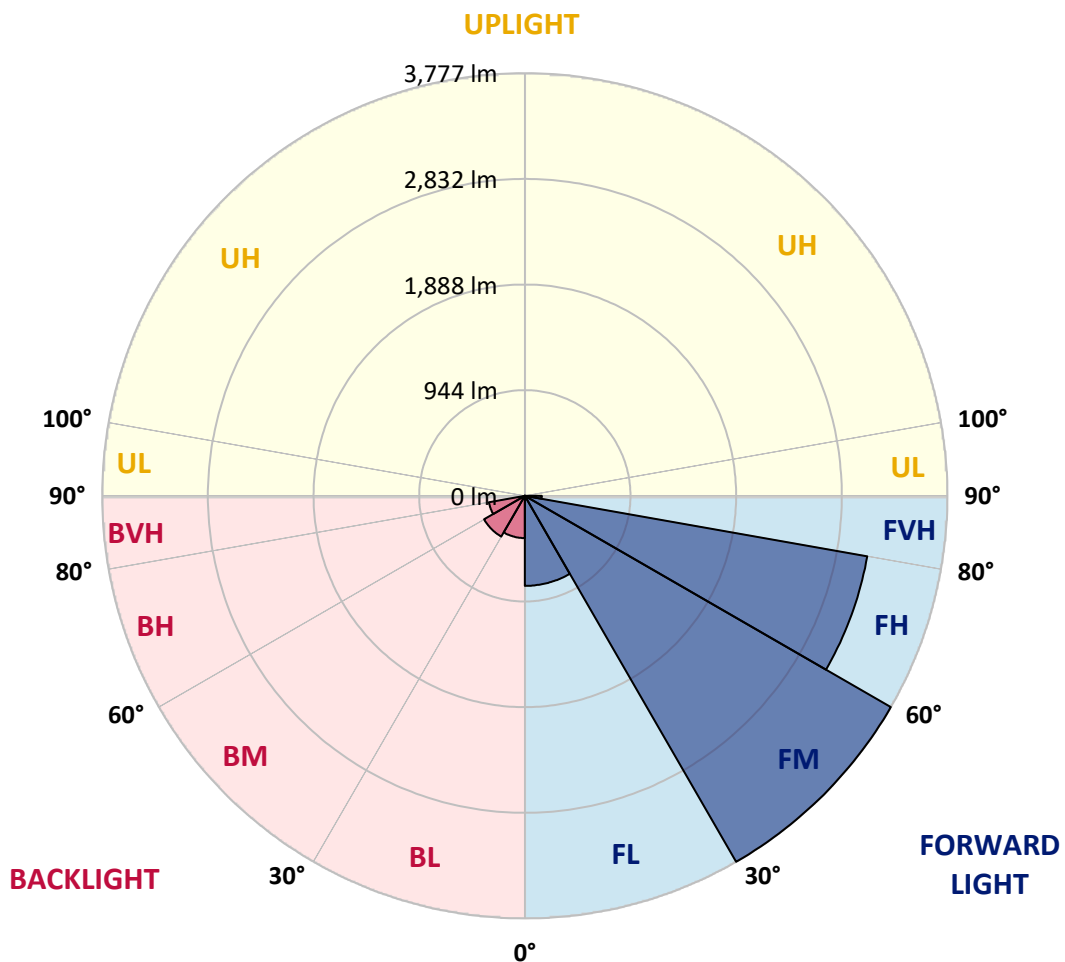


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.7	9.0			
FM (30°-60°)	3776.6	42.1			
FH (60°-80°)	3107.4	34.6			G2/5000
FVH (80°-90°)	151.1	1.7			G2/225
BL (0°-30°)	377.8	4.2	B1/500		
BM (30°-60°)	420.4	4.7	B1/1000		
BH (60°-80°)	326.0	3.6	B1/500		G1/500
BVH (80°-90°)	4.5	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°	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8
2.5°	2104.7	2115.6	2130.7	2152.3	2167.4	2158.8	2165.3	2202.0	2182.5	2199.8	2191.2
5°	1988.1	1998.9	2020.5	2018.3	2035.6	2068.0	2111.2	2158.8	2137.2	2189.0	2208.5
7.5°	1867.0	1862.7	1862.7	1908.1	1944.8	1990.2	2014.0	2091.8	2093.9	2139.3	2186.9
10°	1756.8	1769.8	1791.4	1808.7	1843.3	1908.1	1977.3	2037.8	2061.5	2152.3	2165.3
12.5°	1689.8	1696.3	1722.3	1737.4	1782.8	1845.4	1918.9	1996.7	2016.1	2109.1	2171.7
15°	1661.8	1676.9	1685.5	1713.6	1737.4	1795.7	1849.8	1938.4	1994.5	2068.0	2145.8
17.5°	1683.4	1676.9	1681.2	1689.8	1717.9	1769.8	1828.1	1916.7	1936.2	2059.4	2176.1
20°	1711.5	1713.6	1700.7	1696.3	1689.8	1739.5	1787.1	1901.6	1923.2	2059.4	2195.5
22.5°	1787.1	1763.3	1787.1	1752.5	1717.9	1739.5	1784.9	1903.8	1918.9	2057.2	2215.0
25°	1880.0	1884.3	1890.8	1817.3	1767.6	1752.5	1800.1	1910.3	1923.2	2074.5	2223.6
27.5°	2011.8	2031.3	1998.9	1962.1	1862.7	1787.1	1797.9	1905.9	1929.7	2065.8	2245.2
30°	2189.0	2173.9	2178.2	2093.9	1996.7	1877.8	1847.6	1916.7	1934.0	2076.7	2286.3
32.5°	2342.4	2325.2	2355.4	2325.2	2171.7	2007.5	1905.9	1938.4	1957.8	2102.6	2320.8
35°	2437.5	2459.1	2506.7	2539.1	2409.4	2176.1	2003.2	1996.7	2005.3	2115.6	2346.8
37.5°	2584.5	2623.4	2662.3	2744.4	2632.0	2383.5	2156.6	2072.3	2057.2	2178.2	2359.7
40°	2744.4	2733.6	2848.1	2945.3	2941.0	2675.2	2370.5	2206.3	2184.7	2277.6	2446.2
42.5°	2878.4	2867.6	2995.0	3155.0	3172.2	2956.2	2614.7	2396.5	2377.0	2431.0	2552.1
45°	3053.4	3062.0	3213.3	3403.5	3466.1	3327.8	2945.3	2668.7	2657.9	2640.7	2753.0
47.5°	3209.0	3256.5	3386.2	3610.9	3837.8	3712.5	3334.3	3066.4	2990.7	2951.8	3064.2
50°	3317.0	3360.2	3518.0	3757.9	4172.8	4252.7	3770.8	3489.9	3492.1	3397.0	3457.5
52.5°	3317.0	3314.9	3442.4	3757.9	4406.1	4816.7	4354.3	4023.7	4040.9	3941.5	3945.9
55°	2997.2	2990.7	3146.3	3481.3	4380.2	5359.1	5238.1	4700.0	4656.8	4464.5	4483.9
57.5°	2413.8	2428.9	2547.7	2949.7	4043.1	5611.9	6290.5	5460.7	5313.7	4916.1	4916.1
60°	1761.2	1748.2	1836.8	2117.7	3239.2	5516.9	7154.8	6357.5	6126.2	5290.0	5233.8
62.5°	1339.8	1337.6	1361.4	1456.5	2055.0	4810.2	7526.5	7498.4	7122.4	5657.3	5577.4
65°	1082.6	1086.9	1119.4	1186.4	1255.5	3280.3	7329.9	8859.8	8516.2	6204.0	5942.6
67.5°	883.8	894.6	933.5	1078.3	1063.2	1698.5	6242.9	9639.9	9704.7	7038.2	6433.1
70°	680.7	698.0	743.4	948.6	1024.3	1130.2	4328.3	9250.9	9423.8	7556.8	6137.0
72.5°	462.4	460.3	557.5	769.3	1035.1	1035.1	2409.4	7450.9	7615.1	6966.8	5331.0
75°	250.7	265.8	369.5	581.3	948.6	1000.5	1372.2	5452.0	5683.2	5417.5	4123.1
77.5°	136.1	138.3	205.3	380.3	788.7	955.1	916.2	3708.2	3798.9	3267.3	2258.2
80°	71.3	73.5	108.0	248.5	544.6	886.0	762.8	2210.6	2124.2	1253.3	745.5
82.5°	32.4	34.6	54.0	155.6	347.9	698.0	659.1	1067.5	985.4	350.1	226.9
85°	13.0	13.0	23.8	92.9	203.1	343.6	564.0	535.9	447.3	105.9	112.4
87.5°	4.3	4.3	6.5	36.7	82.1	205.3	300.4	283.1	194.5	38.9	60.5
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°	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8	2199.8
2.5°	2182.5	2206.3	2199.8	2195.5	2154.4	2150.1	2145.8	2106.9	2119.9	2087.5	2109.1
5°	2195.5	2208.5	2173.9	2109.1	2050.7	1985.9	1936.2	1901.6	1839.0	1815.2	1810.9
7.5°	2182.5	2182.5	2111.2	2007.5	1893.0	1787.1	1653.1	1558.0	1486.7	1432.7	1452.1
10°	2165.3	2139.3	2065.8	1882.2	1674.7	1514.8	1322.5	1182.0	1076.1	1041.6	1020.0
12.5°	2165.3	2119.9	1955.6	1705.0	1437.0	1195.0	965.9	782.3	680.7	620.2	611.5
15°	2145.8	2078.8	1875.7	1538.6	1205.8	877.3	615.9	458.1	371.7	347.9	339.3
17.5°	2150.1	2070.2	1756.8	1341.9	935.7	583.5	376.0	289.6	268.0	257.2	259.3
20°	2158.8	2070.2	1651.0	1149.6	674.2	363.0	259.3	244.2	233.4	229.1	231.2
22.5°	2186.9	2029.1	1542.9	953.0	456.0	261.5	229.1	213.9	205.3	198.8	196.6
25°	2191.2	2022.6	1439.2	758.5	313.3	220.4	201.0	183.7	172.9	164.2	162.1
27.5°	2184.7	1994.5	1294.4	564.0	235.5	196.6	170.7	153.4	138.3	131.8	129.7
30°	2208.5	1942.7	1171.2	406.3	198.8	170.7	144.8	125.3	112.4	103.7	103.7
32.5°	2210.6	1897.3	1035.1	289.6	181.5	151.3	123.2	101.6	88.6	84.3	84.3
35°	2212.8	1856.2	883.8	220.4	162.1	129.7	101.6	84.3	75.6	69.1	69.1
37.5°	2219.3	1826.0	745.5	185.8	144.8	110.2	84.3	69.1	60.5	58.3	58.3
40°	2232.2	1784.9	600.7	164.2	125.3	92.9	71.3	58.3	49.7	47.5	45.4
42.5°	2266.8	1774.1	479.7	146.9	112.4	77.8	58.3	47.5	41.1	36.7	34.6
45°	2409.4	1802.2	371.7	136.1	95.1	64.8	49.7	38.9	30.3	28.1	25.9
47.5°	2642.8	1895.1	293.9	121.0	80.0	54.0	41.1	30.3	23.8	21.6	19.4
50°	2997.2	2106.9	239.9	108.0	67.0	45.4	32.4	23.8	17.3	15.1	15.1
52.5°	3461.8	2392.2	207.4	95.1	54.0	38.9	25.9	17.3	13.0	10.8	10.8
55°	3937.2	2729.3	194.5	82.1	45.4	32.4	19.4	13.0	8.6	6.5	6.5
57.5°	4373.7	2947.5	188.0	67.0	38.9	23.8	15.1	8.6	4.3	2.2	2.2
60°	4646.0	3107.4	168.6	54.0	30.3	19.4	10.8	4.3	2.2	0.0	0.0
62.5°	5004.7	3269.5	138.3	41.1	21.6	13.0	6.5	2.2	0.0	0.0	0.0
65°	5478.0	3451.0	108.0	32.4	17.3	8.6	4.3	2.2	0.0	0.0	0.0
67.5°	5704.9	3355.9	73.5	23.8	10.8	4.3	2.2	0.0	0.0	0.0	0.0
70°	5251.1	2826.5	51.9	17.3	6.5	2.2	2.2	0.0	0.0	0.0	0.0
72.5°	4414.8	2215.0	38.9	10.8	4.3	2.2	0.0	0.0	0.0	0.0	0.0
75°	3254.4	1385.2	30.3	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1726.6	516.5	21.6	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	510.0	151.3	15.1	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	168.6	45.4	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	86.4	17.3	4.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	49.7	6.5	4.3	4.3	2.2	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)