

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: P676937

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676937  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-850-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

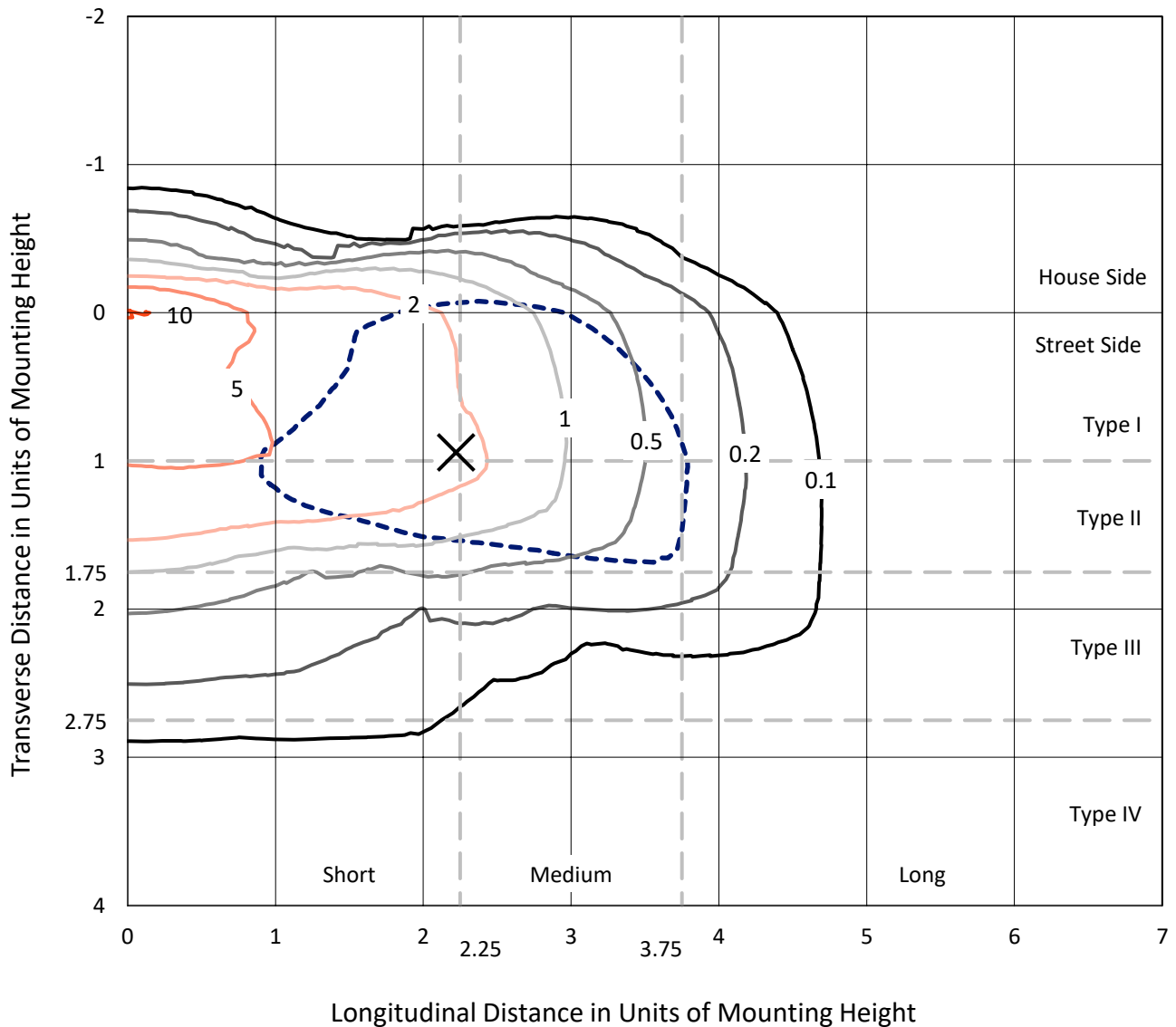
Lumens per Lamp: N/A  
Luminaire Lumens: 9594.5 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

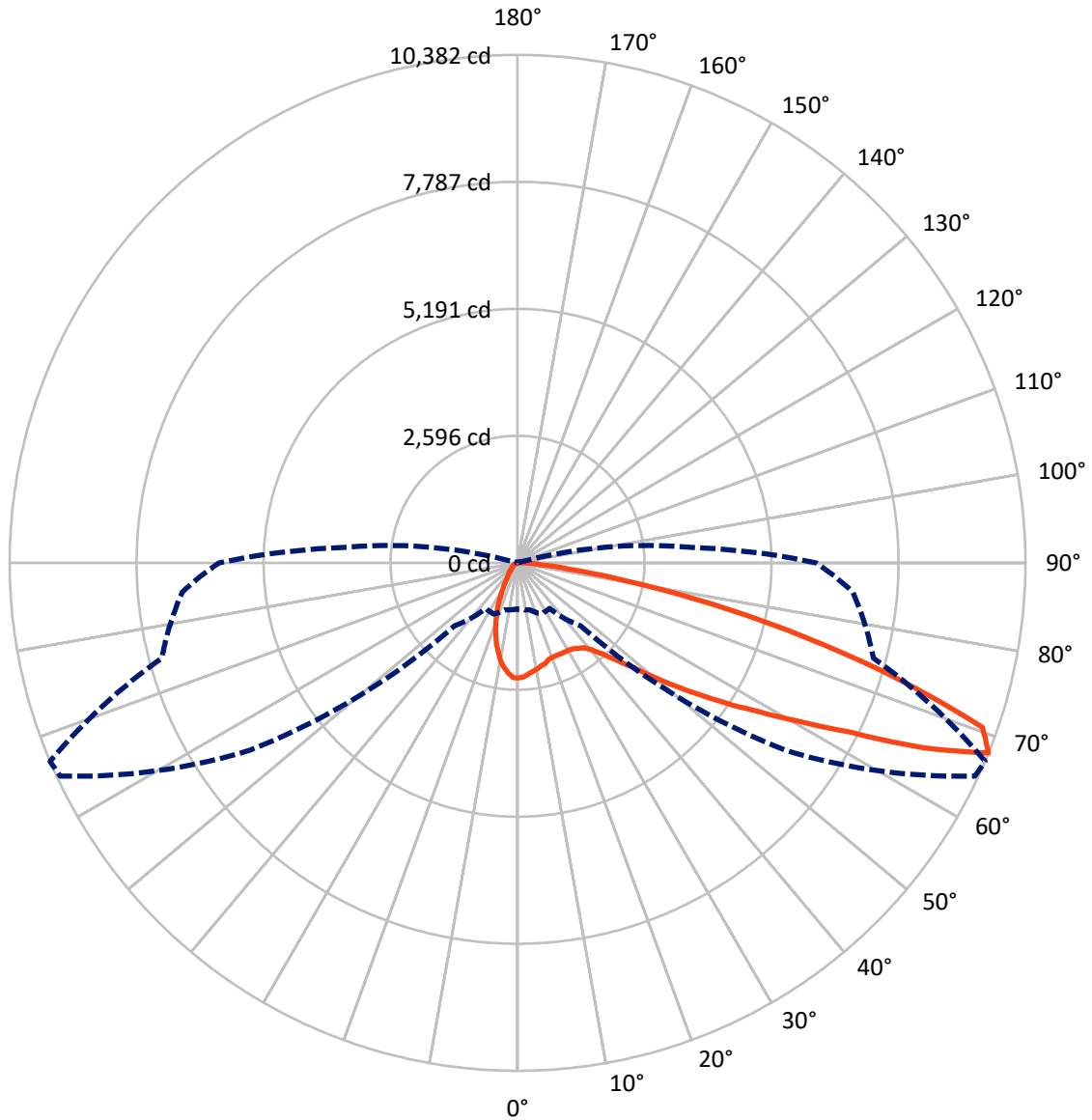
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.5 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
<b>House Side</b>	Lumens	1207.5	0.0	1207.5
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	8387.0	0.0	8387.0
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	9594.5	0.0	9594.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.3	2.1
10°-20°	440.5	4.6
20°-30°	626.3	6.5
30°-40°	912.0	9.5
40°-50°	1411.5	14.7
50°-60°	2166.3	22.6
60°-70°	2348.3	24.5
70°-80°	1324.8	13.8
80°-90°	166.5	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°	9594.5	100.0
0°-180°	9594.5	100.0

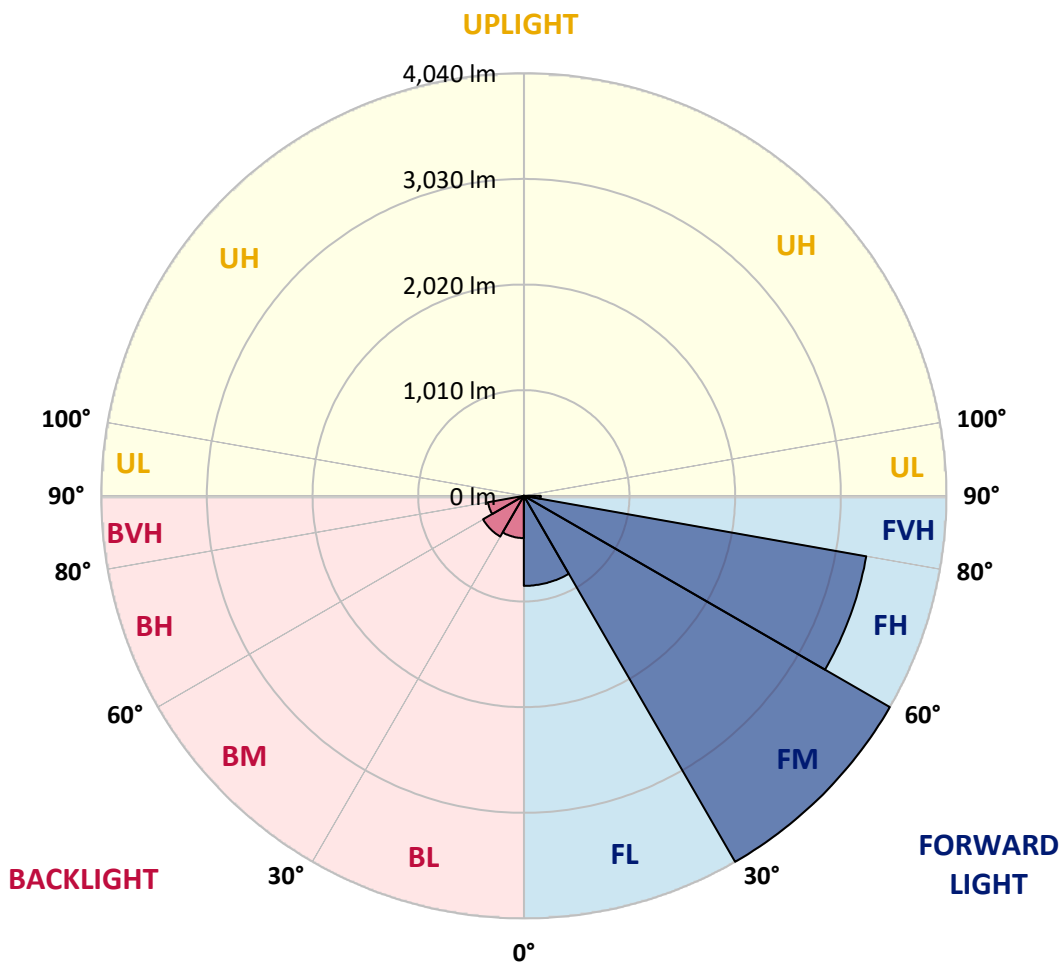


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.9	9.0			
FM (30°-60°)	4040.1	42.1			
FH (60°-80°)	3324.3	34.6			G2/5000
FVH (80°-90°)	161.7	1.7			G2/225
BL (0°-30°)	404.2	4.2	B1/500		
BM (30°-60°)	449.8	4.7	B1/1000		
BH (60°-80°)	348.8	3.6	B1/500		G1/500
BVH (80°-90°)	4.8	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°	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3
2.5°	2251.6	2263.2	2279.4	2302.5	2318.7	2309.4	2316.4	2355.7	2334.9	2353.3	2344.1
5°	2126.8	2138.4	2161.5	2159.2	2177.7	2212.3	2258.6	2309.4	2286.3	2341.8	2362.6
7.5°	1997.3	1992.7	1992.7	2041.3	2080.6	2129.1	2154.5	2237.8	2240.1	2288.6	2339.5
10°	1879.4	1893.3	1916.4	1934.9	1971.9	2041.3	2115.2	2180.0	2205.4	2302.5	2316.4
12.5°	1807.8	1814.7	1842.5	1858.6	1907.2	1974.2	2052.8	2136.0	2156.9	2256.3	2323.3
15°	1777.7	1793.9	1803.2	1833.2	1858.6	1921.1	1978.8	2073.6	2133.7	2212.3	2295.6
17.5°	1800.8	1793.9	1798.5	1807.8	1837.8	1893.3	1955.7	2050.5	2071.3	2203.1	2327.9
20°	1830.9	1833.2	1819.3	1814.7	1807.8	1860.9	1911.8	2034.3	2057.4	2203.1	2348.7
22.5°	1911.8	1886.4	1911.8	1874.8	1837.8	1860.9	1909.5	2036.6	2052.8	2200.8	2369.5
25°	2011.2	2015.8	2022.8	1944.2	1891.0	1874.8	1925.7	2043.6	2057.4	2219.3	2378.8
27.5°	2152.2	2173.0	2138.4	2099.1	1992.7	1911.8	1923.4	2039.0	2064.4	2210.0	2401.9
30°	2341.8	2325.6	2330.2	2240.1	2136.0	2008.9	1976.5	2050.5	2069.0	2221.6	2445.8
32.5°	2505.9	2487.4	2519.8	2487.4	2323.3	2147.6	2039.0	2073.6	2094.4	2249.3	2482.8
35°	2607.6	2630.8	2681.6	2716.3	2577.6	2327.9	2143.0	2136.0	2145.3	2263.2	2510.5
37.5°	2764.8	2806.4	2848.1	2935.9	2815.7	2549.8	2307.1	2217.0	2200.8	2330.2	2524.4
40°	2935.9	2924.3	3046.9	3150.9	3146.3	2861.9	2536.0	2360.3	2337.2	2436.6	2616.9
42.5°	3079.2	3067.7	3204.1	3375.1	3393.6	3162.5	2797.2	2563.7	2542.9	2600.7	2730.2
45°	3266.5	3275.7	3437.6	3641.0	3708.0	3560.1	3150.9	2855.0	2843.4	2824.9	2945.2
47.5°	3432.9	3483.8	3622.5	3862.9	4105.6	3971.6	3567.0	3280.4	3199.4	3157.8	3278.0
50°	3548.5	3594.8	3763.5	4020.1	4464.0	4549.5	4034.0	3733.5	3735.8	3634.1	3698.8
52.5°	3548.5	3546.2	3682.6	4020.1	4713.6	5152.9	4658.2	4304.5	4322.9	4216.6	4221.2
55°	3206.4	3199.4	3365.9	3724.2	4685.9	5733.1	5603.7	5028.0	4981.8	4776.1	4796.9
57.5°	2582.2	2598.4	2725.5	3155.5	4325.3	6003.6	6729.5	5841.8	5684.6	5259.2	5259.2
60°	1884.1	1870.2	1965.0	2265.5	3465.3	5901.9	7654.2	6801.1	6553.8	5659.1	5599.0
62.5°	1433.3	1431.0	1456.4	1558.1	2198.5	5145.9	8051.8	8021.7	7619.5	6052.1	5966.6
65°	1158.2	1162.8	1197.5	1269.1	1343.1	3509.2	7841.4	9478.1	9110.6	6637.0	6357.3
67.5°	945.5	957.1	998.7	1153.6	1137.4	1817.0	6678.6	10312.7	10382.0	7529.3	6882.0
70°	728.2	746.7	795.2	1014.9	1095.8	1209.0	4630.4	9896.5	10081.5	8084.1	6565.3
72.5°	494.7	492.4	596.4	823.0	1107.3	1107.3	2577.6	7970.9	8146.6	7453.0	5703.1
75°	268.2	284.3	395.3	621.9	1014.9	1070.3	1468.0	5832.5	6079.9	5795.5	4410.8
77.5°	145.6	148.0	219.6	406.9	843.8	1021.8	980.2	3966.9	4064.0	3495.3	2415.8
80°	76.3	78.6	115.6	265.8	582.6	947.8	816.0	2364.9	2272.4	1340.8	797.5
82.5°	34.7	37.0	57.8	166.4	372.2	746.7	705.1	1142.0	1054.2	374.5	242.7
85°	13.9	13.9	25.4	99.4	217.3	367.6	603.4	573.3	478.5	113.3	120.2
87.5°	4.6	4.6	6.9	39.3	87.8	219.6	321.3	302.8	208.1	41.6	64.7
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°	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3	2353.3
2.5°	2334.9	2360.3	2353.3	2348.7	2304.8	2300.2	2295.6	2253.9	2267.8	2233.1	2256.3
5°	2348.7	2362.6	2325.6	2256.3	2193.8	2124.5	2071.3	2034.3	1967.3	1941.9	1937.2
7.5°	2334.9	2334.9	2258.6	2147.6	2025.1	1911.8	1768.5	1666.8	1590.5	1532.7	1553.5
10°	2316.4	2288.6	2210.0	2013.5	1791.6	1620.5	1414.8	1264.5	1151.2	1114.3	1091.1
12.5°	2316.4	2267.8	2092.1	1824.0	1537.3	1278.4	1033.3	836.8	728.2	663.5	654.2
15°	2295.6	2223.9	2006.6	1646.0	1289.9	938.6	658.8	490.1	397.6	372.2	362.9
17.5°	2300.2	2214.6	1879.4	1435.6	1001.0	624.2	402.2	309.8	286.7	275.1	277.4
20°	2309.4	2214.6	1766.2	1229.8	721.3	388.4	277.4	261.2	249.7	245.0	247.4
22.5°	2339.5	2170.7	1650.6	1019.5	487.8	279.7	245.0	228.9	219.6	212.7	210.4
25°	2344.1	2163.8	1539.6	811.4	335.2	235.8	215.0	196.5	184.9	175.7	173.4
27.5°	2337.2	2133.7	1384.7	603.4	252.0	210.4	182.6	164.1	148.0	141.0	138.7
30°	2362.6	2078.3	1253.0	434.6	212.7	182.6	154.9	134.1	120.2	111.0	111.0
32.5°	2364.9	2029.7	1107.3	309.8	194.2	161.8	131.8	108.7	94.8	90.2	90.2
35°	2367.2	1985.8	945.5	235.8	173.4	138.7	108.7	90.2	80.9	74.0	74.0
37.5°	2374.2	1953.4	797.5	198.8	154.9	117.9	90.2	74.0	64.7	62.4	62.4
40°	2388.0	1909.5	642.7	175.7	134.1	99.4	76.3	62.4	53.2	50.9	48.5
42.5°	2425.0	1897.9	513.2	157.2	120.2	83.2	62.4	50.9	43.9	39.3	37.0
45°	2577.6	1928.0	397.6	145.6	101.7	69.4	53.2	41.6	32.4	30.1	27.7
47.5°	2827.3	2027.4	314.4	129.5	85.5	57.8	43.9	32.4	25.4	23.1	20.8
50°	3206.4	2253.9	256.6	115.6	71.7	48.5	34.7	25.4	18.5	16.2	16.2
52.5°	3703.4	2559.1	221.9	101.7	57.8	41.6	27.7	18.5	13.9	11.6	11.6
55°	4212.0	2919.7	208.1	87.8	48.5	34.7	20.8	13.9	9.2	6.9	6.9
57.5°	4679.0	3153.2	201.1	71.7	41.6	25.4	16.2	9.2	4.6	2.3	2.3
60°	4970.2	3324.3	180.3	57.8	32.4	20.8	11.6	4.6	2.3	0.0	0.0
62.5°	5354.0	3497.7	148.0	43.9	23.1	13.9	6.9	2.3	0.0	0.0	0.0
65°	5860.3	3691.8	115.6	34.7	18.5	9.2	4.6	2.3	0.0	0.0	0.0
67.5°	6103.0	3590.1	78.6	25.4	11.6	4.6	2.3	0.0	0.0	0.0	0.0
70°	5617.5	3023.8	55.5	18.5	6.9	2.3	2.3	0.0	0.0	0.0	0.0
72.5°	4722.9	2369.5	41.6	11.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0
75°	3481.5	1481.8	32.4	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1847.1	552.5	23.1	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	545.6	161.8	16.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	180.3	48.5	9.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	92.5	18.5	4.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	53.2	6.9	4.6	4.6	2.3	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)