

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: P676893

Luminaire Tested: **CCW-SA-2E-827-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676893
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-827-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) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

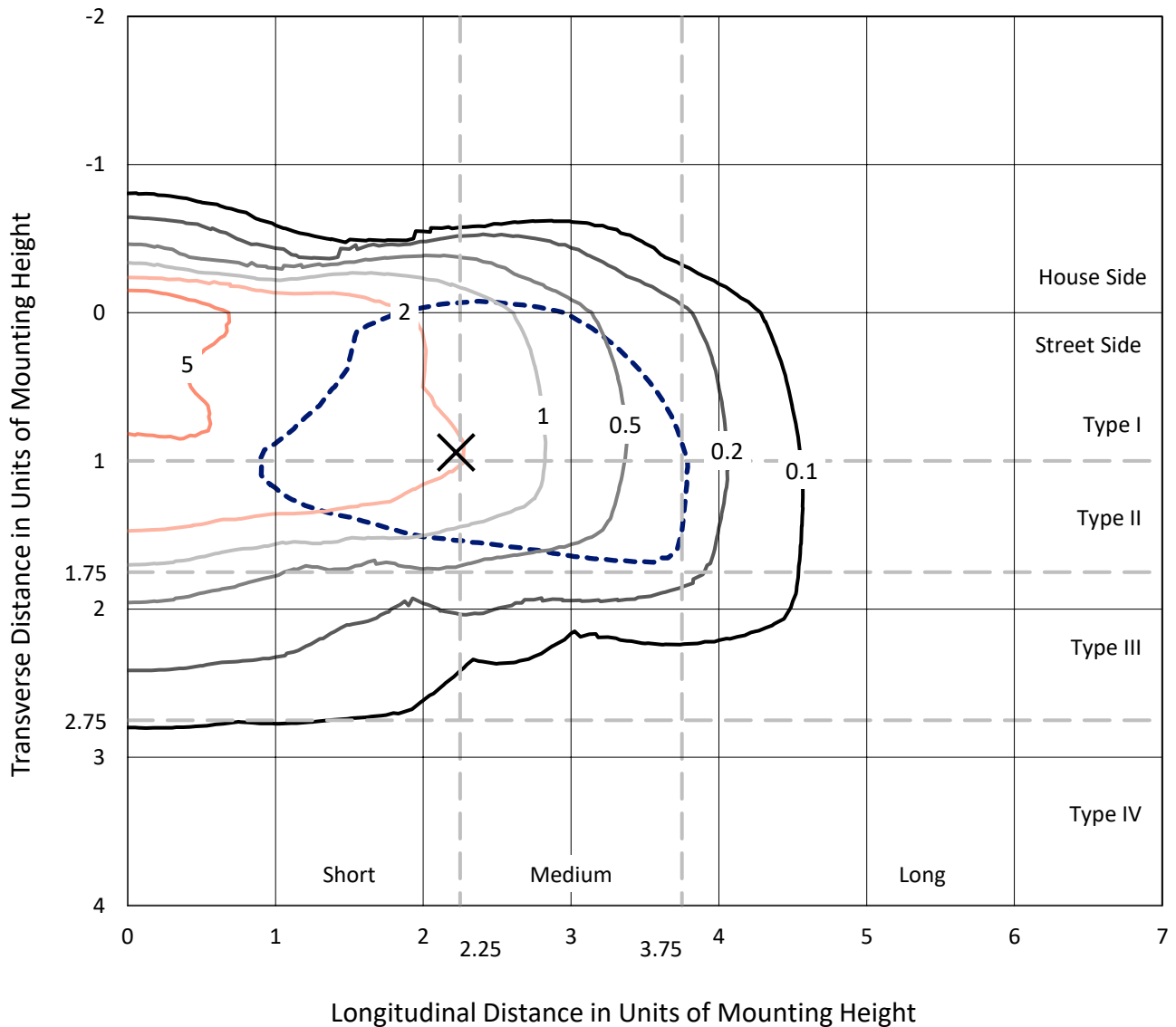
Lumens per Lamp: N/A
Luminaire Lumens: 8082.6 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{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

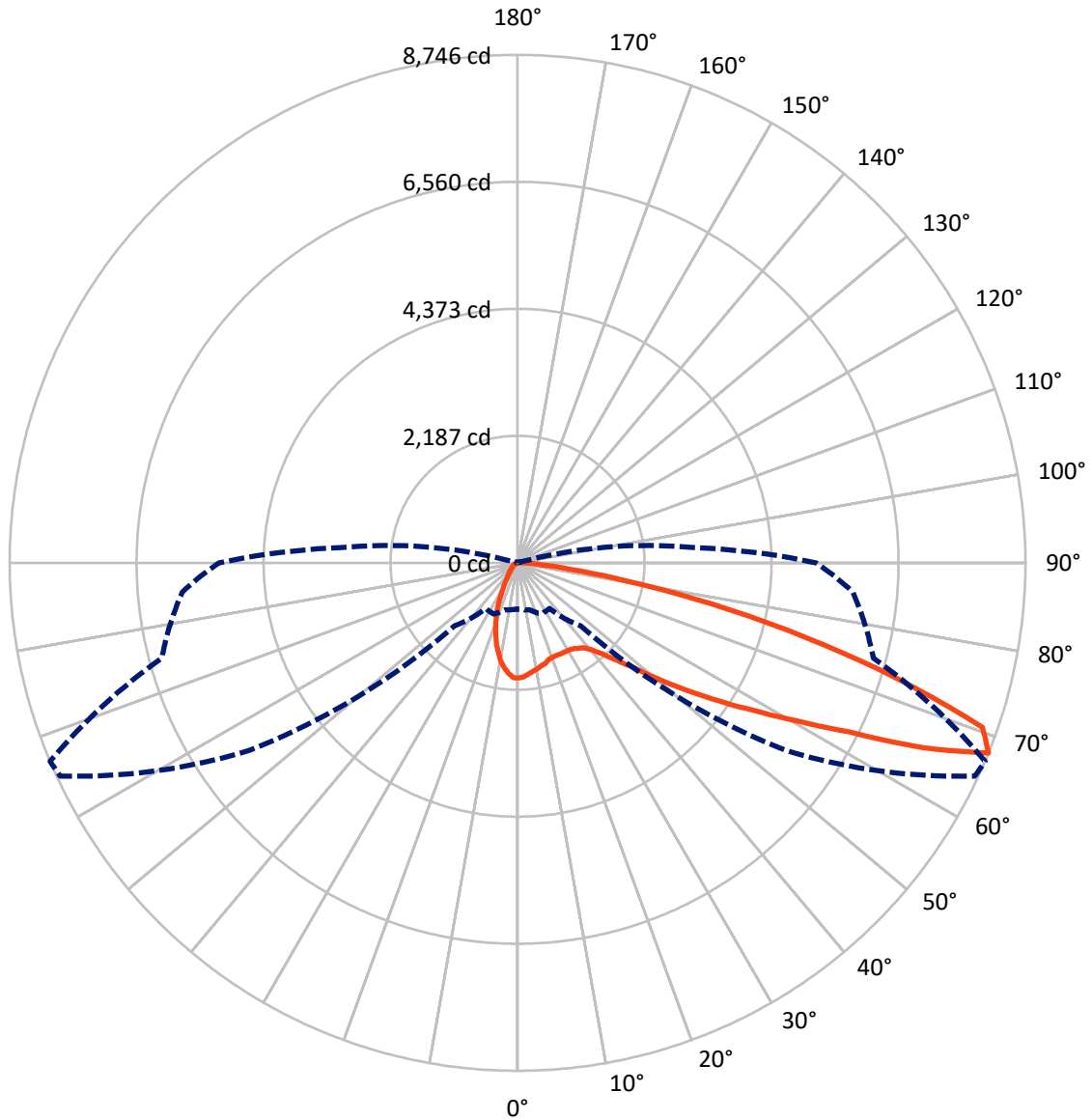
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.8 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	1017.2	0.0	1017.2
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	7065.4	0.0	7065.4
	% Fixture	87.4	0.0	87.4
Total	Lumens	8082.6	0.0	8082.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	2.1
10°-20°	371.1	4.6
20°-30°	527.6	6.5
30°-40°	768.3	9.5
40°-50°	1189.1	14.7
50°-60°	1824.9	22.6
60°-70°	1978.2	24.5
70°-80°	1116.1	13.8
80°-90°	140.2	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°	8082.6	100.0
0°-180°	8082.6	100.0

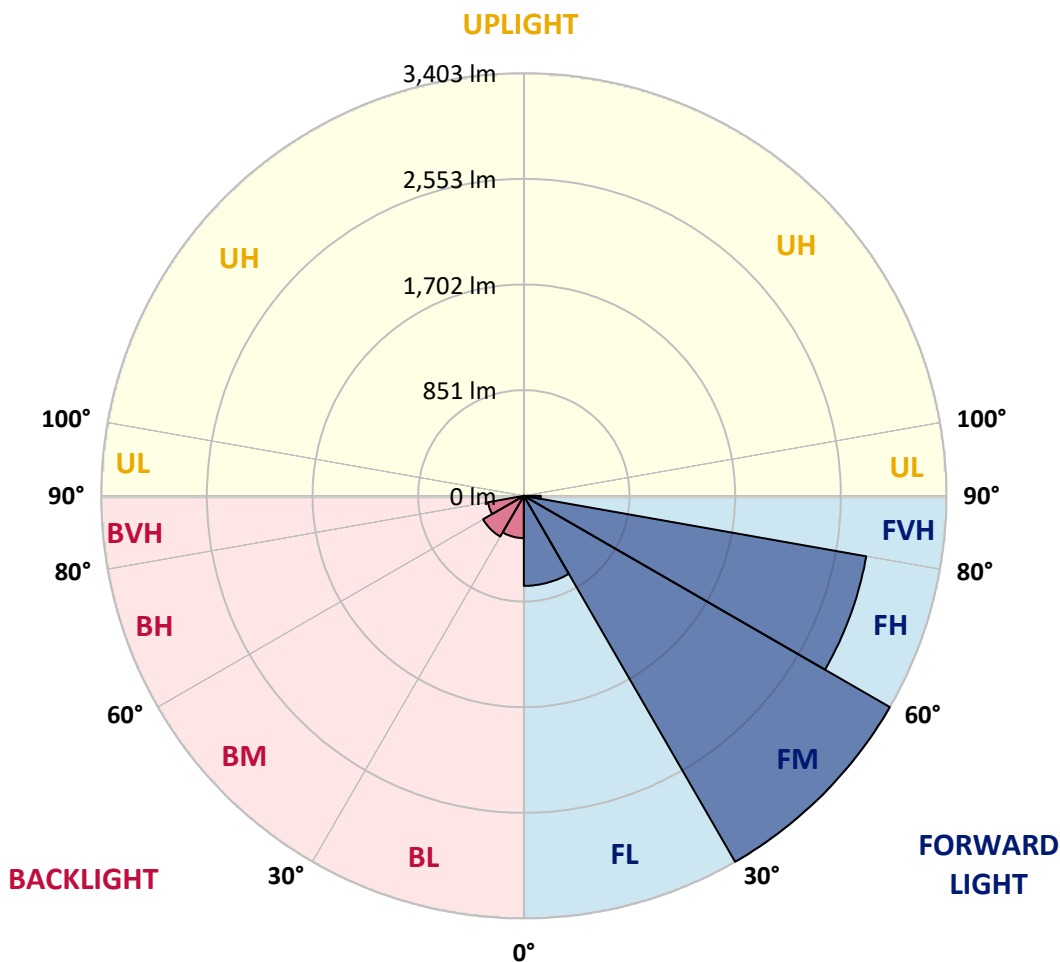


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.2	9.0			
FM (30°-60°)	3403.5	42.1			
FH (60°-80°)	2800.5	34.6			G2/5000
FVH (80°-90°)	136.2	1.7			G2/225
BL (0°-30°)	340.5	4.2	B1/500		
BM (30°-60°)	378.9	4.7	B1/1000		
BH (60°-80°)	293.8	3.6	B1/500		G1/500
BVH (80°-90°)	4.0	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°	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5
2.5°	1896.8	1906.6	1920.2	1939.7	1953.3	1945.5	1951.4	1984.5	1966.9	1982.5	1974.7
5°	1791.7	1801.4	1820.9	1818.9	1834.5	1863.7	1902.7	1945.5	1926.0	1972.8	1990.3
7.5°	1682.6	1678.7	1678.7	1719.6	1752.7	1793.6	1815.0	1885.1	1887.1	1928.0	1970.8
10°	1583.3	1595.0	1614.4	1630.0	1661.2	1719.6	1781.9	1836.5	1857.9	1939.7	1951.4
12.5°	1522.9	1528.8	1552.1	1565.8	1606.7	1663.1	1729.3	1799.5	1817.0	1900.7	1957.2
15°	1497.6	1511.2	1519.0	1544.3	1565.8	1618.3	1667.0	1746.9	1797.5	1863.7	1933.8
17.5°	1517.1	1511.2	1515.1	1522.9	1548.2	1595.0	1647.6	1727.4	1744.9	1855.9	1961.1
20°	1542.4	1544.3	1532.7	1528.8	1522.9	1567.7	1610.6	1713.8	1733.2	1855.9	1978.6
22.5°	1610.6	1589.1	1610.6	1579.4	1548.2	1567.7	1608.6	1715.7	1729.3	1854.0	1996.2
25°	1694.3	1698.2	1704.0	1637.8	1593.0	1579.4	1622.2	1721.6	1733.2	1869.6	2003.9
27.5°	1813.1	1830.6	1801.4	1768.3	1678.7	1610.6	1620.3	1717.7	1739.1	1861.8	2023.4
30°	1972.8	1959.2	1963.0	1887.1	1799.5	1692.3	1665.1	1727.4	1743.0	1871.5	2060.4
32.5°	2111.1	2095.5	2122.7	2095.5	1957.2	1809.2	1717.7	1746.9	1764.4	1894.9	2091.6
35°	2196.7	2216.2	2259.1	2288.3	2171.4	1961.1	1805.3	1799.5	1807.2	1906.6	2114.9
37.5°	2329.2	2364.2	2399.3	2473.3	2372.0	2148.1	1943.6	1867.6	1854.0	1963.0	2126.6
40°	2473.3	2463.5	2566.8	2654.4	2650.5	2411.0	2136.4	1988.4	1968.9	2052.6	2204.5
42.5°	2594.0	2584.3	2699.2	2843.3	2858.9	2664.1	2356.4	2159.7	2142.2	2190.9	2300.0
45°	2751.8	2759.6	2895.9	3067.3	3123.7	2999.1	2654.4	2405.1	2395.4	2379.8	2481.1
47.5°	2892.0	2934.8	3051.7	3254.2	3458.7	3345.7	3004.9	2763.5	2695.3	2660.2	2761.5
50°	2989.4	3028.3	3170.5	3386.6	3760.6	3832.6	3398.3	3145.2	3147.1	3061.4	3115.9
52.5°	2989.4	2987.4	3102.3	3386.6	3970.9	4340.9	3924.1	3626.2	3641.8	3552.2	3556.1
55°	2701.1	2695.3	2835.5	3137.4	3947.5	4829.7	4720.7	4235.7	4196.8	4023.5	4041.0
57.5°	2175.3	2189.0	2296.1	2658.3	3643.7	5057.6	5669.1	4921.2	4788.8	4430.5	4430.5
60°	1587.2	1575.5	1655.3	1908.5	2919.3	4971.9	6448.1	5729.4	5521.1	4767.4	4716.8
62.5°	1207.4	1205.5	1226.9	1312.6	1852.0	4335.1	6783.0	6757.7	6418.8	5098.5	5026.4
65°	975.7	979.6	1008.8	1069.2	1131.5	2956.3	6605.8	7984.6	7675.0	5591.2	5355.5
67.5°	796.5	806.3	841.3	971.8	958.2	1530.7	5626.2	8687.6	8746.1	6342.9	5797.6
70°	613.5	629.0	669.9	854.9	923.1	1018.5	3900.8	8337.1	8492.9	6810.3	5530.8
72.5°	416.8	414.8	502.4	693.3	932.8	932.8	2171.4	6714.9	6862.9	6278.6	4804.4
75°	225.9	239.5	333.0	523.9	854.9	901.7	1236.6	4913.5	5121.8	4882.3	3715.8
77.5°	122.7	124.6	185.0	342.8	710.8	860.8	825.7	3341.9	3423.6	2944.6	2035.1
80°	64.3	66.2	97.4	224.0	490.8	798.5	687.5	1992.3	1914.4	1129.5	671.9
82.5°	29.2	31.2	48.7	140.2	313.5	629.0	594.0	962.0	888.0	315.5	204.5
85°	11.7	11.7	21.4	83.7	183.1	309.6	508.3	483.0	403.1	95.4	101.3
87.5°	3.9	3.9	5.8	33.1	74.0	185.0	270.7	255.1	175.3	35.1	54.5
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°	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5
2.5°	1966.9	1988.4	1982.5	1978.6	1941.6	1937.7	1933.8	1898.8	1910.5	1881.3	1900.7
5°	1978.6	1990.3	1959.2	1900.7	1848.1	1789.7	1744.9	1713.8	1657.3	1635.9	1632.0
7.5°	1966.9	1966.9	1902.7	1809.2	1706.0	1610.6	1489.8	1404.1	1339.9	1291.2	1308.7
10°	1951.4	1928.0	1861.8	1696.2	1509.3	1365.2	1191.8	1065.3	969.8	938.7	919.2
12.5°	1951.4	1910.5	1762.5	1536.6	1295.1	1076.9	870.5	705.0	613.5	558.9	551.1
15°	1933.8	1873.5	1690.4	1386.6	1086.7	790.7	555.0	412.9	335.0	313.5	305.8
17.5°	1937.7	1865.7	1583.3	1209.4	843.3	525.8	338.9	261.0	241.5	231.7	233.7
20°	1945.5	1865.7	1487.9	1036.1	607.6	327.2	233.7	220.1	210.3	206.4	208.4
22.5°	1970.8	1828.7	1390.5	858.8	410.9	235.6	206.4	192.8	185.0	179.2	177.2
25°	1974.7	1822.8	1297.0	683.6	282.4	198.6	181.1	165.5	155.8	148.0	146.1
27.5°	1968.9	1797.5	1166.5	508.3	212.3	177.2	153.8	138.3	124.6	118.8	116.8
30°	1990.3	1750.8	1055.5	366.1	179.2	153.8	130.5	113.0	101.3	93.5	93.5
32.5°	1992.3	1709.9	932.8	261.0	163.6	136.3	111.0	91.5	79.8	76.0	76.0
35°	1994.2	1672.9	796.5	198.6	146.1	116.8	91.5	76.0	68.2	62.3	62.3
37.5°	2000.0	1645.6	671.9	167.5	130.5	99.3	76.0	62.3	54.5	52.6	52.6
40°	2011.7	1608.6	541.4	148.0	113.0	83.7	64.3	52.6	44.8	42.8	40.9
42.5°	2042.9	1598.9	432.3	132.4	101.3	70.1	52.6	42.8	37.0	33.1	31.2
45°	2171.4	1624.2	335.0	122.7	85.7	58.4	44.8	35.1	27.3	25.3	23.4
47.5°	2381.8	1707.9	264.9	109.1	72.1	48.7	37.0	27.3	21.4	19.5	17.5
50°	2701.1	1898.8	216.2	97.4	60.4	40.9	29.2	21.4	15.6	13.6	13.6
52.5°	3119.8	2155.8	187.0	85.7	48.7	35.1	23.4	15.6	11.7	9.7	9.7
55°	3548.3	2459.6	175.3	74.0	40.9	29.2	17.5	11.7	7.8	5.8	5.8
57.5°	3941.7	2656.3	169.4	60.4	35.1	21.4	13.6	7.8	3.9	1.9	1.9
60°	4187.1	2800.5	151.9	48.7	27.3	17.5	9.7	3.9	1.9	0.0	0.0
62.5°	4510.3	2946.5	124.6	37.0	19.5	11.7	5.8	1.9	0.0	0.0	0.0
65°	4936.8	3110.1	97.4	29.2	15.6	7.8	3.9	1.9	0.0	0.0	0.0
67.5°	5141.3	3024.4	66.2	21.4	9.7	3.9	1.9	0.0	0.0	0.0	0.0
70°	4732.3	2547.3	46.7	15.6	5.8	1.9	1.9	0.0	0.0	0.0	0.0
72.5°	3978.7	1996.2	35.1	9.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
75°	2932.9	1248.3	27.3	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1556.0	465.4	19.5	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	459.6	136.3	13.6	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	151.9	40.9	7.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	77.9	15.6	3.9	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.8	5.8	3.9	3.9	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)