

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: P676826

Luminaire Tested: **CCW-SA-2D-727-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676826
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

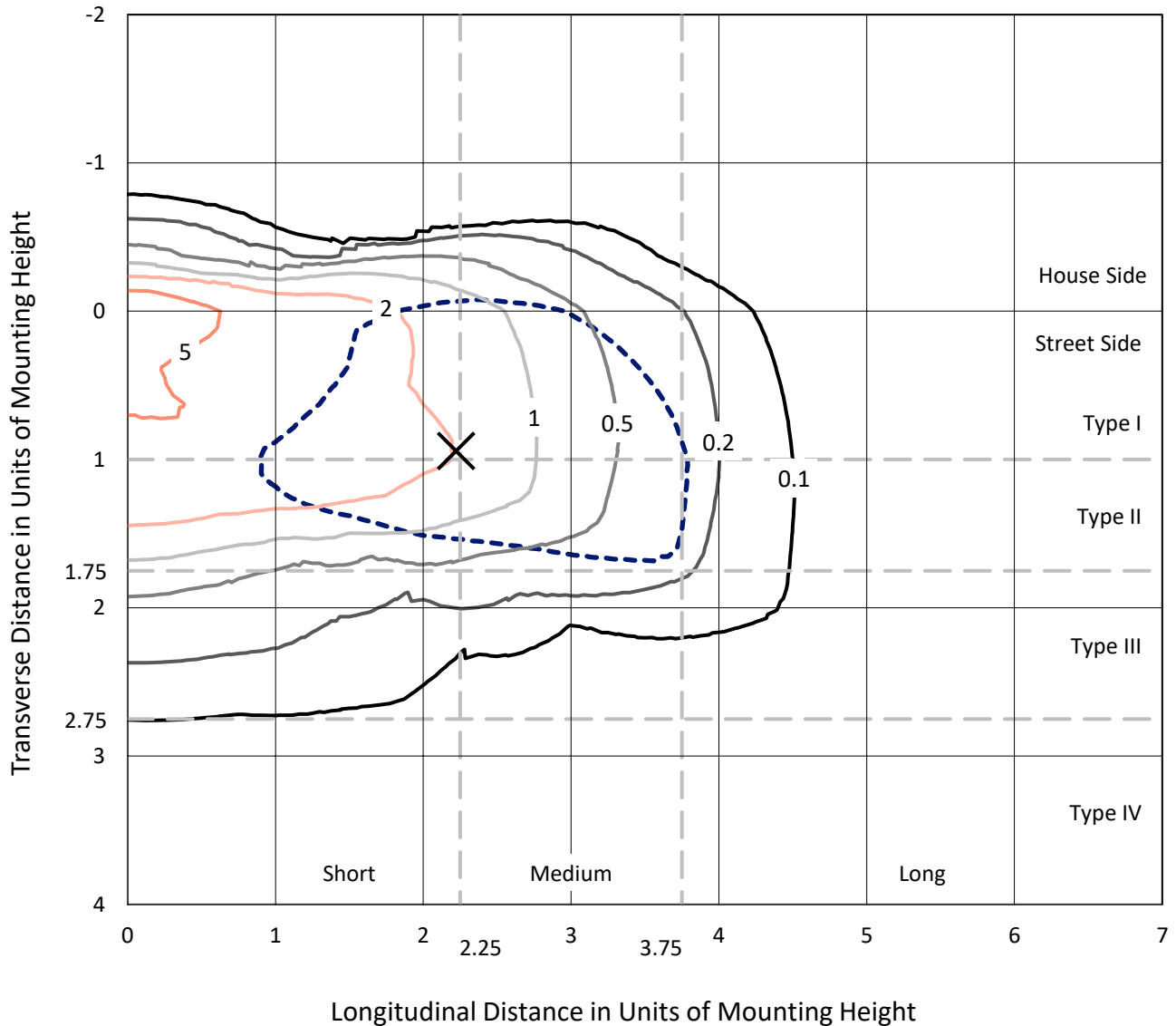
Lumens per Lamp: N/A
Luminaire Lumens: 7500.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

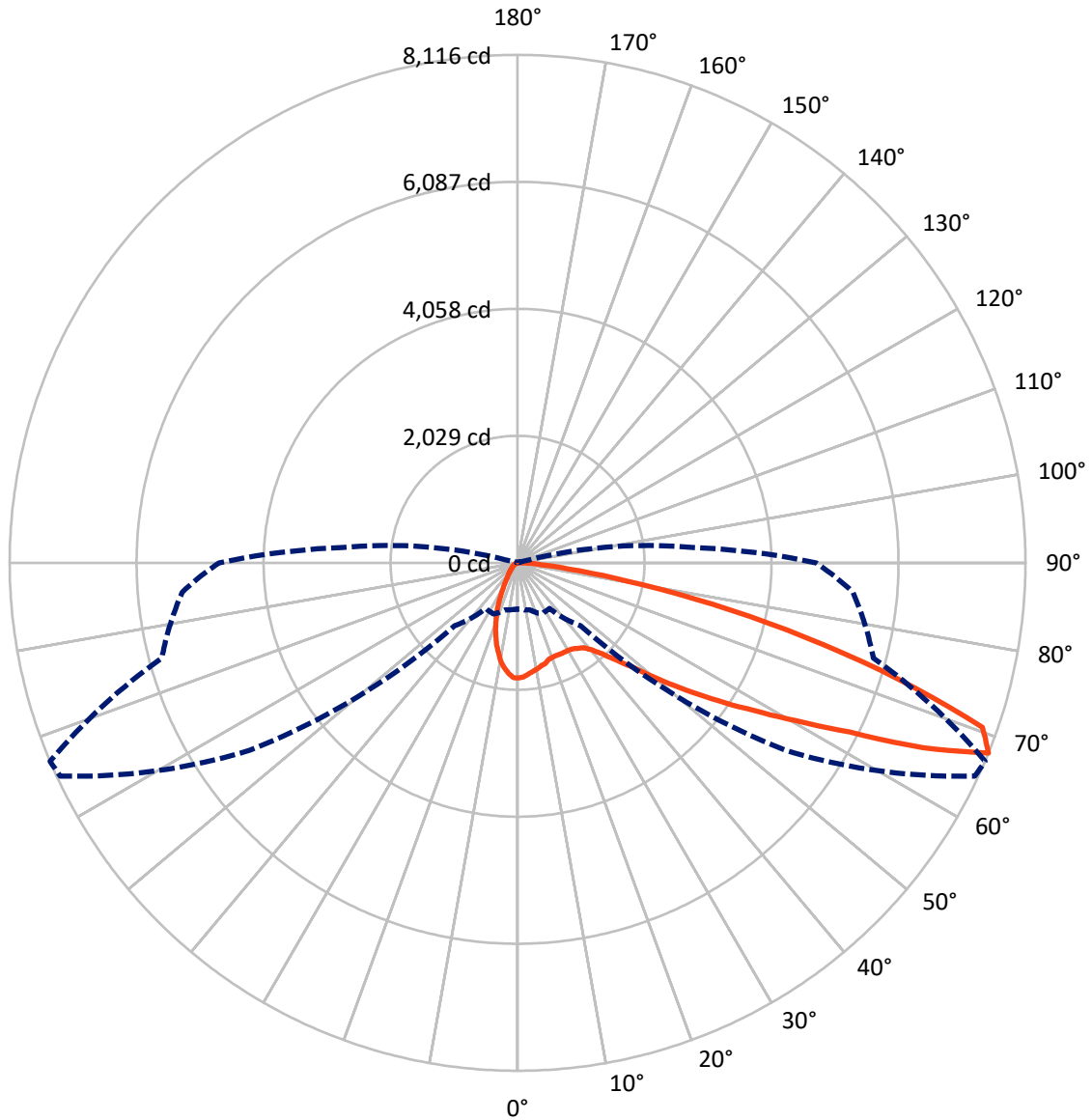
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

REPORT NUMBER: P676826
CATALOG NUMBER: CCW-SA-2D-727-U-SL2-HSS

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	944.0	0.0	944.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	6556.5	0.0	6556.5
	% Fixture	87.4	0.0	87.4
Total	Lumens	7500.4	0.0	7500.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	2.1
10°-20°	344.3	4.6
20°-30°	489.6	6.5
30°-40°	713.0	9.5
40°-50°	1103.5	14.7
50°-60°	1693.5	22.6
60°-70°	1835.7	24.5
70°-80°	1035.7	13.8
80°-90°	130.1	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°	7500.4	100.0
0°-180°	7500.4	100.0

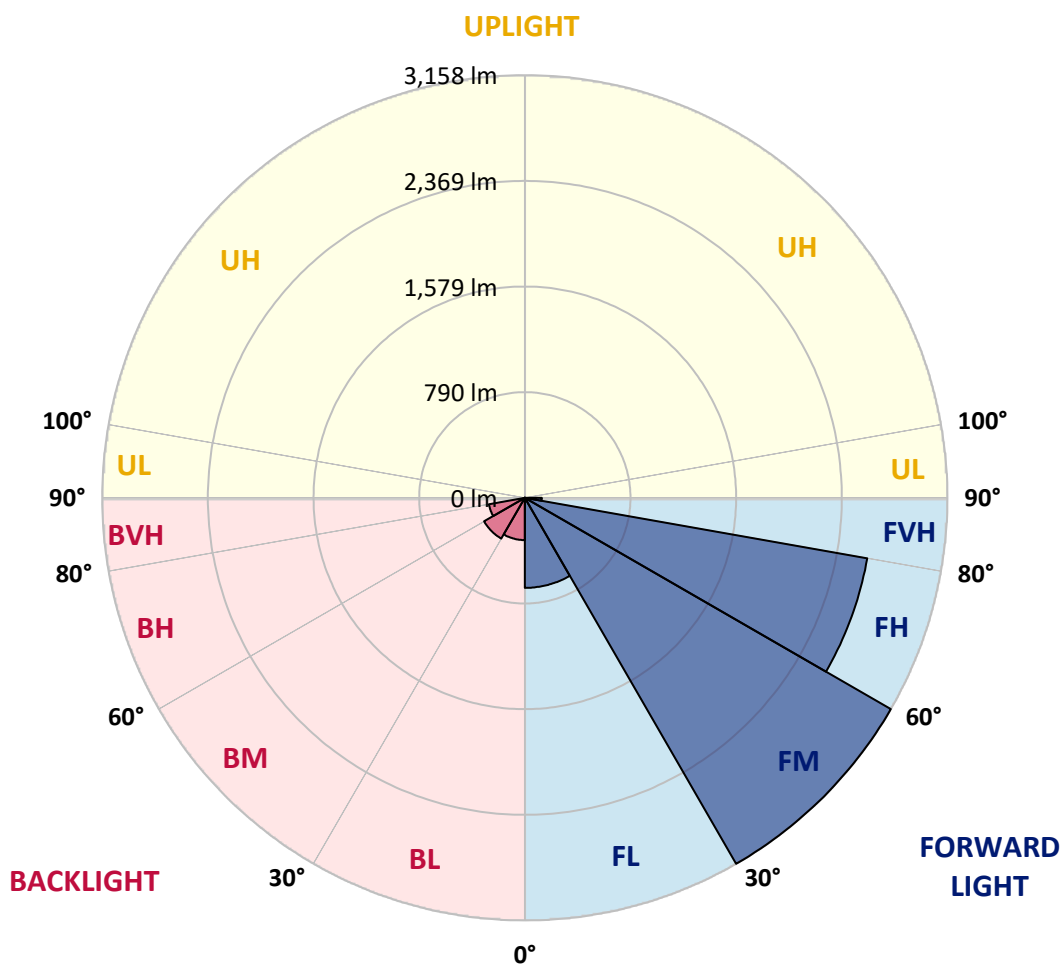


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.0	9.0			
FM (30°-60°)	3158.3	42.1			
FH (60°-80°)	2598.7	34.6			G2/5000
FVH (80°-90°)	126.4	1.7			G2/225
BL (0°-30°)	316.0	4.2	B1/500		
BM (30°-60°)	351.6	4.7	B1/1000		
BH (60°-80°)	272.7	3.6	B1/500		G1/500
BVH (80°-90°)	3.7	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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CATALOG NUMBER: CCW-SA-2D-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1760.2	1769.2	1781.9	1800.0	1812.6	1805.4	1810.8	1841.5	1825.3	1839.7	1832.5
5°	1662.6	1671.6	1689.7	1687.9	1702.4	1729.5	1765.6	1805.4	1787.3	1830.7	1846.9
7.5°	1561.4	1557.8	1557.8	1595.7	1626.5	1664.4	1684.3	1749.4	1751.2	1789.1	1828.9
10°	1469.2	1480.1	1498.2	1512.6	1541.5	1595.7	1653.6	1704.2	1724.1	1800.0	1810.8
12.5°	1413.2	1418.6	1440.3	1453.0	1490.9	1543.3	1604.8	1669.8	1686.1	1763.8	1816.2
15°	1389.7	1402.4	1409.6	1433.1	1453.0	1501.8	1547.0	1621.0	1668.0	1729.5	1794.5
17.5°	1407.8	1402.4	1406.0	1413.2	1436.7	1480.1	1528.9	1603.0	1619.2	1722.2	1819.8
20°	1431.3	1433.1	1422.3	1418.6	1413.2	1454.8	1494.5	1590.3	1608.4	1722.2	1836.1
22.5°	1494.5	1474.7	1494.5	1465.6	1436.7	1454.8	1492.7	1592.1	1604.8	1720.4	1852.4
25°	1572.3	1575.9	1581.3	1519.8	1478.3	1465.6	1505.4	1597.6	1608.4	1734.9	1859.6
27.5°	1682.5	1698.8	1671.6	1640.9	1557.8	1494.5	1503.6	1593.9	1613.8	1727.7	1877.7
30°	1830.7	1818.0	1821.6	1751.2	1669.8	1570.4	1545.1	1603.0	1617.4	1736.7	1912.0
32.5°	1959.0	1944.5	1969.8	1944.5	1816.2	1678.9	1593.9	1621.0	1637.3	1758.4	1940.9
35°	2038.5	2056.6	2096.3	2123.4	2015.0	1819.8	1675.3	1669.8	1677.1	1769.2	1962.6
37.5°	2161.4	2193.9	2226.5	2295.1	2201.2	1993.3	1803.6	1733.1	1720.4	1821.6	1973.4
40°	2295.1	2286.1	2381.9	2463.2	2459.6	2237.3	1982.5	1845.1	1827.1	1904.8	2045.7
42.5°	2407.2	2398.1	2504.8	2638.5	2652.9	2472.2	2186.7	2004.2	1987.9	2033.1	2134.3
45°	2553.6	2560.8	2687.3	2846.3	2898.7	2783.1	2463.2	2231.9	2222.8	2208.4	2302.4
47.5°	2683.7	2723.4	2831.9	3019.8	3209.6	3104.7	2788.5	2564.4	2501.1	2468.6	2562.6
50°	2774.0	2810.2	2942.1	3142.7	3489.7	3556.5	3153.5	2918.6	2920.4	2840.9	2891.5
52.5°	2774.0	2772.2	2878.8	3142.7	3684.9	4028.2	3641.5	3365.0	3379.4	3296.3	3299.9
55°	2506.6	2501.1	2631.3	2911.4	3663.2	4481.8	4380.6	3930.6	3894.5	3733.6	3749.9
57.5°	2018.6	2031.3	2130.7	2466.8	3381.2	4693.3	5260.7	4566.8	4443.9	4111.3	4111.3
60°	1472.9	1462.0	1536.1	1771.0	2709.0	4613.7	5983.6	5316.7	5123.4	4424.0	4377.0
62.5°	1120.5	1118.6	1138.5	1218.0	1718.6	4022.8	6294.4	6270.9	5956.5	4731.2	4664.3
65°	905.4	909.0	936.1	992.1	1050.0	2743.3	6130.0	7409.5	7122.1	5188.4	4969.8
67.5°	739.1	748.2	780.7	901.8	889.1	1420.4	5221.0	8061.9	8116.1	5886.0	5380.0
70°	569.3	583.7	621.7	793.4	856.6	945.2	3619.8	7736.6	7881.1	6319.7	5132.4
72.5°	386.7	384.9	466.3	643.4	865.6	865.6	2015.0	6231.2	6368.5	5826.4	4458.3
75°	209.6	222.3	309.0	486.1	793.4	836.7	1147.6	4559.5	4752.9	4530.6	3448.1
77.5°	113.9	115.7	171.7	318.1	659.6	798.8	766.2	3101.1	3177.0	2732.5	1888.5
80°	59.6	61.4	90.4	207.8	455.4	740.9	637.9	1848.8	1776.5	1048.2	623.5
82.5°	27.1	28.9	45.2	130.1	291.0	583.7	551.2	892.8	824.1	292.8	189.8
85°	10.8	10.8	19.9	77.7	169.9	287.3	471.7	448.2	374.1	88.6	94.0
87.5°	3.6	3.6	5.4	30.7	68.7	171.7	251.2	236.7	162.6	32.5	50.6
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°	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1825.3	1845.1	1839.7	1836.1	1801.8	1798.2	1794.5	1762.0	1772.8	1745.7	1763.8
5°	1836.1	1846.9	1818.0	1763.8	1715.0	1660.8	1619.2	1590.3	1537.9	1518.0	1514.4
7.5°	1825.3	1825.3	1765.6	1678.9	1583.1	1494.5	1382.5	1303.0	1243.3	1198.2	1214.4
10°	1810.8	1789.1	1727.7	1574.1	1400.6	1266.8	1106.0	988.5	900.0	871.1	853.0
12.5°	1810.8	1772.8	1635.5	1425.9	1201.8	999.4	807.8	654.2	569.3	518.7	511.4
15°	1794.5	1738.5	1568.6	1286.7	1008.4	733.7	515.0	383.1	310.8	291.0	283.7
17.5°	1798.2	1731.3	1469.2	1122.3	782.5	487.9	314.5	242.2	224.1	215.1	216.9
20°	1805.4	1731.3	1380.7	961.4	563.8	303.6	216.9	204.2	195.2	191.6	193.4
22.5°	1828.9	1696.9	1290.3	797.0	381.3	218.7	191.6	178.9	171.7	166.3	164.5
25°	1832.5	1691.5	1203.6	634.3	262.0	184.3	168.1	153.6	144.6	137.3	135.5
27.5°	1827.1	1668.0	1082.5	471.7	197.0	164.5	142.8	128.3	115.7	110.2	108.4
30°	1846.9	1624.7	979.5	339.8	166.3	142.8	121.1	104.8	94.0	86.7	86.7
32.5°	1848.8	1586.7	865.6	242.2	151.8	126.5	103.0	84.9	74.1	70.5	70.5
35°	1850.6	1552.4	739.1	184.3	135.5	108.4	84.9	70.5	63.3	57.8	57.8
37.5°	1856.0	1527.1	623.5	155.4	121.1	92.2	70.5	57.8	50.6	48.8	48.8
40°	1866.8	1492.7	502.4	137.3	104.8	77.7	59.6	48.8	41.6	39.8	38.0
42.5°	1895.7	1483.7	401.2	122.9	94.0	65.1	48.8	39.8	34.3	30.7	28.9
45°	2015.0	1507.2	310.8	113.9	79.5	54.2	41.6	32.5	25.3	23.5	21.7
47.5°	2210.2	1584.9	245.8	101.2	66.9	45.2	34.3	25.3	19.9	18.1	16.3
50°	2506.6	1762.0	200.6	90.4	56.0	38.0	27.1	19.9	14.5	12.7	12.7
52.5°	2895.1	2000.6	173.5	79.5	45.2	32.5	21.7	14.5	10.8	9.0	9.0
55°	3292.7	2282.5	162.6	68.7	38.0	27.1	16.3	10.8	7.2	5.4	5.4
57.5°	3657.7	2465.0	157.2	56.0	32.5	19.9	12.7	7.2	3.6	1.8	1.8
60°	3885.5	2598.7	141.0	45.2	25.3	16.3	9.0	3.6	1.8	0.0	0.0
62.5°	4185.4	2734.3	115.7	34.3	18.1	10.8	5.4	1.8	0.0	0.0	0.0
65°	4581.2	2886.1	90.4	27.1	14.5	7.2	3.6	1.8	0.0	0.0	0.0
67.5°	4771.0	2806.6	61.4	19.9	9.0	3.6	1.8	0.0	0.0	0.0	0.0
70°	4391.5	2363.8	43.4	14.5	5.4	1.8	1.8	0.0	0.0	0.0	0.0
72.5°	3692.1	1852.4	32.5	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	2721.6	1158.4	25.3	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1443.9	431.9	18.1	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	426.5	126.5	12.7	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	141.0	38.0	7.2	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	72.3	14.5	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.6	5.4	3.6	3.6	1.8	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)