

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: P676716

Luminaire Tested: **CCW-SA-2E-740-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676716
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-740-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

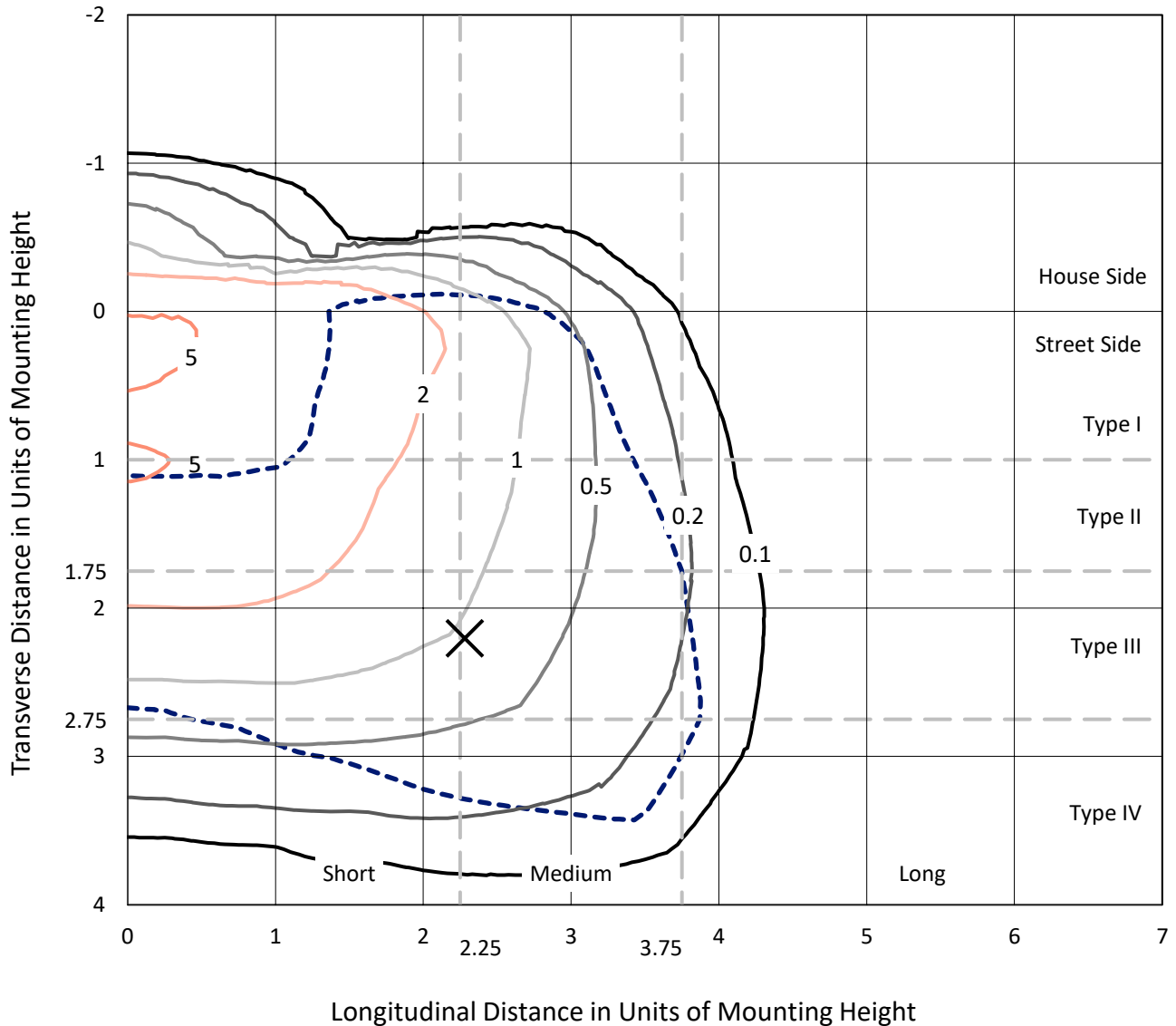
Lumens per Lamp: N/A
Luminaire Lumens: 9864.8 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

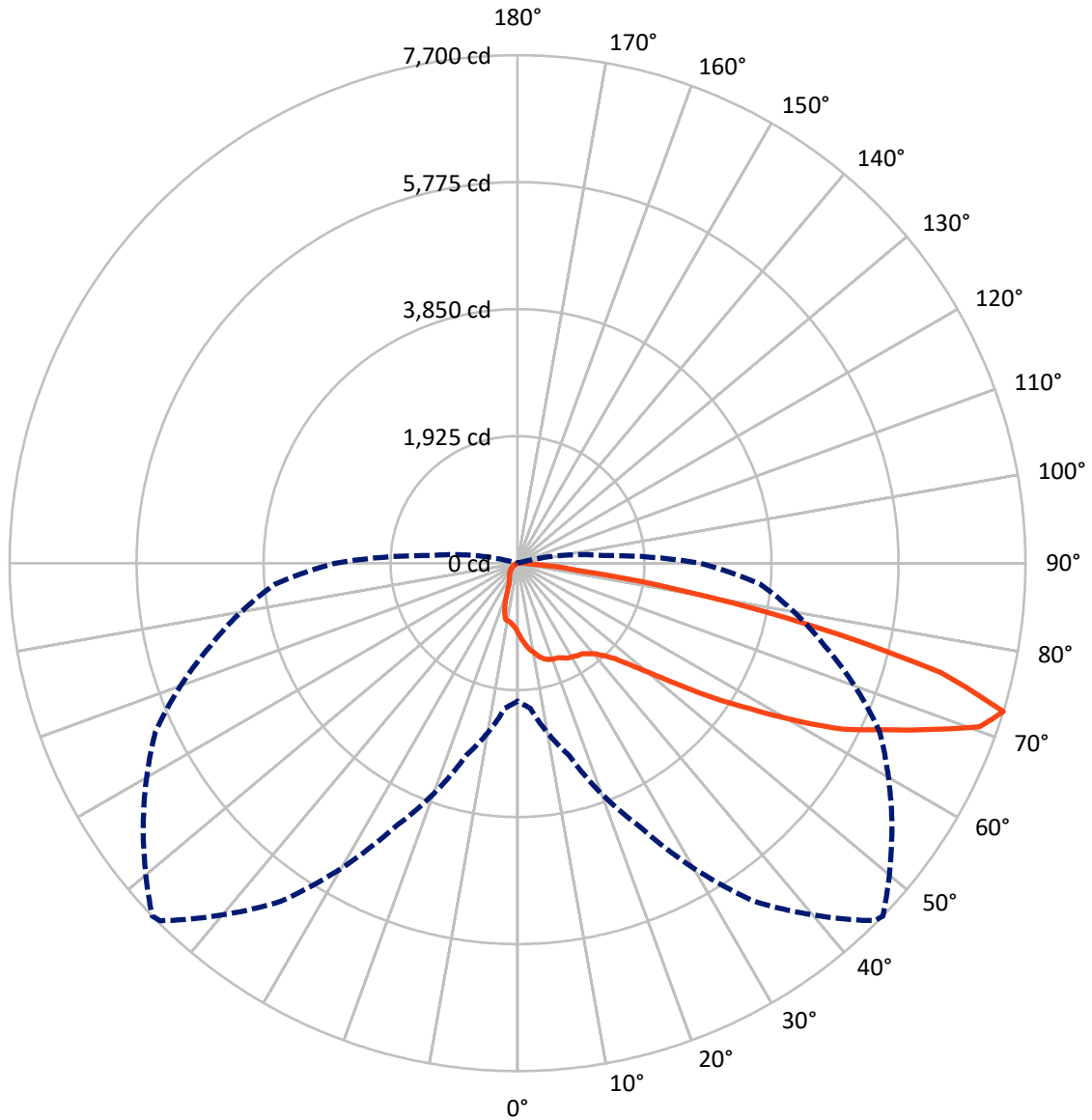
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1062.0	0.0	1062.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	8802.8	0.0	8802.8
	% Fixture	89.2	0.0	89.2
Total	Lumens	9864.8	0.0	9864.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	1.1
10°-20°	318.6	3.2
20°-30°	498.8	5.1
30°-40°	698.5	7.1
40°-50°	1151.8	11.7
50°-60°	2070.2	21.0
60°-70°	3000.5	30.4
70°-80°	1872.6	19.0
80°-90°	148.4	1.5
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°	9864.8	100.0
0°-180°	9864.8	100.0

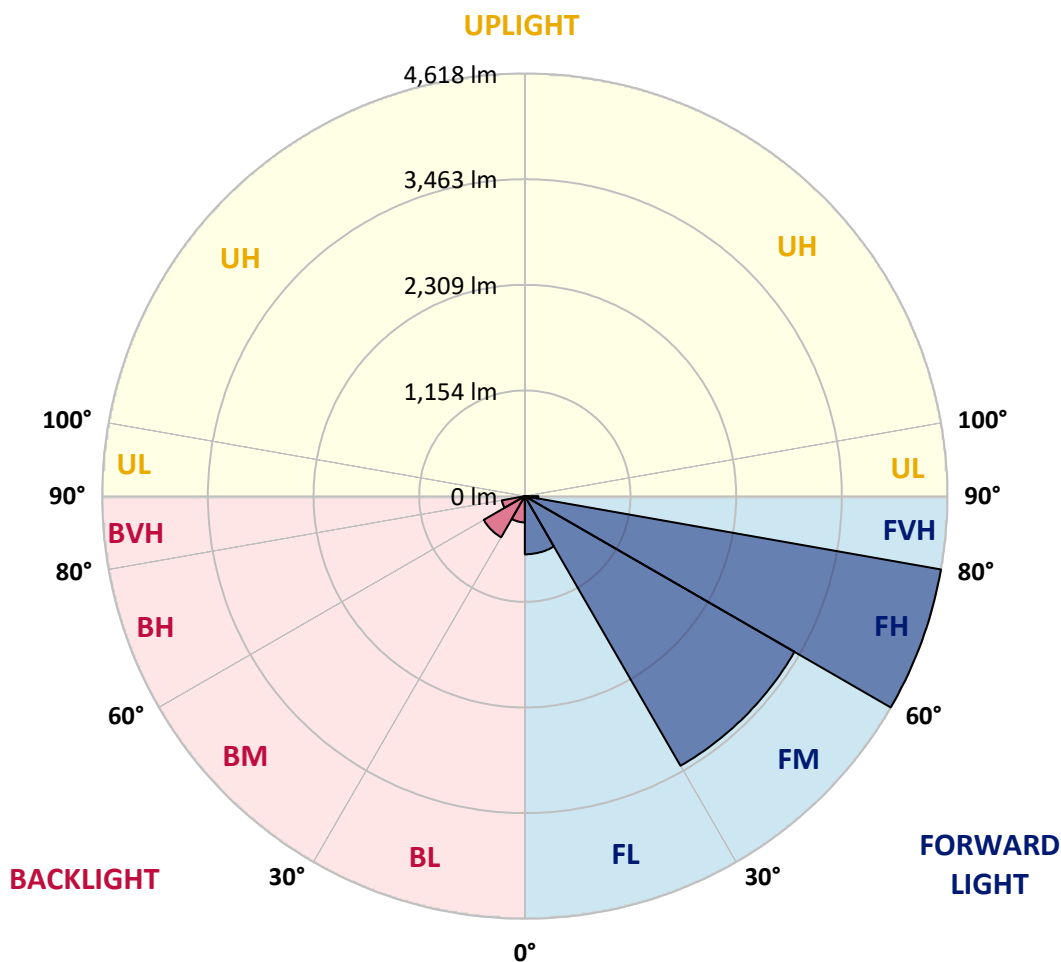


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.8	6.4			
FM (30°-60°)	3401.6	34.5			
FH (60°-80°)	4617.7	46.8			G2/5000
FVH (80°-90°)	147.6	1.5			G2/225
BL (0°-30°)	287.0	2.9	B1/500		
BM (30°-60°)	518.8	5.3	B1/1000		
BH (60°-80°)	255.4	2.6	B1/500		G1/500
BVH (80°-90°)	0.8	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1180.1	1175.1	1182.6	1180.1	1149.9	1155.0	1152.4	1132.3	1097.1	1077.0	1064.4
5°	1316.0	1328.6	1318.5	1295.9	1278.3	1243.0	1238.0	1205.3	1149.9	1114.7	1077.0
7.5°	1456.9	1456.9	1436.8	1401.6	1363.8	1326.1	1321.0	1265.7	1217.9	1157.5	1104.6
10°	1562.6	1550.0	1534.9	1497.2	1454.4	1404.1	1378.9	1338.6	1285.8	1212.8	1144.9
12.5°	1655.7	1635.6	1610.4	1555.0	1504.7	1449.4	1454.4	1389.0	1353.7	1288.3	1187.7
15°	1708.5	1690.9	1668.3	1618.0	1539.9	1514.8	1504.7	1464.5	1401.6	1336.1	1240.5
17.5°	1721.1	1708.5	1678.3	1612.9	1570.1	1539.9	1537.4	1489.6	1461.9	1406.6	1300.9
20°	1696.0	1673.3	1650.7	1607.9	1567.6	1557.6	1550.0	1550.0	1514.8	1441.8	1338.6
22.5°	1653.2	1628.0	1615.4	1590.3	1557.6	1555.0	1560.1	1555.0	1527.4	1479.6	1378.9
25°	1620.5	1607.9	1587.8	1580.2	1560.1	1597.8	1590.3	1582.7	1575.2	1519.8	1441.8
27.5°	1630.5	1628.0	1612.9	1582.7	1567.6	1607.9	1630.5	1633.1	1630.5	1575.2	1499.7
30°	1635.6	1623.0	1607.9	1600.3	1605.4	1645.6	1645.6	1701.0	1678.3	1623.0	1557.6
32.5°	1693.4	1685.9	1635.6	1618.0	1620.5	1668.3	1670.8	1726.2	1718.6	1680.9	1607.9
35°	1816.7	1766.4	1693.4	1643.1	1643.1	1706.0	1685.9	1766.4	1786.5	1726.2	1643.1
37.5°	2000.4	1962.7	1831.8	1718.6	1675.8	1721.1	1741.2	1786.5	1846.9	1794.1	1713.6
40°	2365.3	2357.7	2171.5	1927.5	1758.9	1799.1	1806.7	1877.1	1917.4	1844.4	1821.8
42.5°	2898.7	2861.0	2687.4	2302.4	1909.8	1892.2	1919.9	1965.2	2060.8	2000.4	1945.1
45°	3419.6	3402.0	3228.4	2798.1	2184.1	2078.4	2063.3	2143.9	2284.8	2219.3	2176.6
47.5°	3797.0	3761.8	3663.7	3301.3	2586.7	2297.3	2307.4	2387.9	2566.6	2516.3	2528.8
50°	4086.4	4068.8	3965.6	3766.8	3095.0	2642.1	2621.9	2702.5	2944.0	2976.7	3012.0
52.5°	4403.4	4436.2	4297.8	4129.2	3696.4	3105.1	3059.8	3087.4	3399.5	3474.9	3573.1
55°	4707.9	4760.8	4622.4	4599.7	4325.4	3618.4	3610.8	3545.4	3948.0	3958.1	4010.9
57.5°	4906.7	4889.1	4879.0	5002.3	4954.5	4207.2	4169.4	4104.0	4468.9	4403.4	4562.0
60°	4921.8	4972.1	5140.7	5445.2	5530.7	4899.2	4843.8	4665.1	4919.3	4763.3	5065.2
62.5°	5035.0	5075.3	5387.3	5807.5	5918.2	5508.1	5545.8	5092.9	5304.3	5181.0	5623.8
65°	4748.2	4874.0	5500.5	6089.3	6426.5	6124.6	6086.8	5644.0	5699.3	5583.6	6174.9
67.5°	4489.0	4536.8	5191.0	6174.9	6829.1	6743.6	6728.5	6132.1	6107.0	5893.1	6330.9
70°	3648.6	3706.4	4353.1	5737.1	6965.0	7465.7	7430.5	6816.5	6383.7	5724.5	5530.7
72.5°	2091.0	2206.8	3017.0	4418.5	6257.9	7667.0	7699.7	6927.3	6056.6	4813.6	3693.9
75°	684.4	717.1	1253.1	2503.7	4680.2	6688.2	6630.3	5953.5	4886.6	3178.0	1668.3
77.5°	231.5	236.5	369.9	905.9	2594.3	4519.2	4551.9	4255.0	3001.9	1321.0	460.5
80°	118.3	125.8	181.2	339.7	1066.9	2460.9	2513.7	2425.7	1258.1	390.0	110.7
82.5°	55.4	57.9	105.7	188.7	488.2	966.2	966.2	1061.9	445.4	218.9	45.3
85°	20.1	20.1	55.4	108.2	206.3	322.1	324.6	327.1	234.0	163.6	20.1
87.5°	7.5	7.5	27.7	45.3	75.5	98.1	98.1	78.0	118.3	108.2	7.5
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°	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1059.3	1044.2	1031.7	1014.1	991.4	978.8	981.3	966.2	966.2	958.7	956.2
5°	1059.3	1044.2	1011.5	981.3	961.2	936.0	923.5	913.4	913.4	908.4	910.9
7.5°	1066.9	1044.2	999.0	958.7	926.0	900.8	880.7	878.2	873.1	860.6	870.6
10°	1112.2	1079.5	1004.0	948.6	910.9	883.2	848.0	837.9	822.8	800.2	802.7
12.5°	1149.9	1107.2	1039.2	963.7	915.9	870.6	790.1	702.0	664.3	624.0	626.5
15°	1205.3	1144.9	1051.8	983.9	915.9	770.0	624.0	510.8	450.4	420.2	420.2
17.5°	1235.5	1185.2	1087.0	996.4	842.9	626.5	442.9	344.7	334.7	339.7	339.7
20°	1298.4	1230.4	1127.3	1006.5	722.2	445.4	324.6	314.5	319.6	329.6	327.1
22.5°	1338.6	1270.7	1157.5	961.2	558.6	319.6	304.5	299.4	304.5	317.0	317.0
25°	1371.4	1328.6	1205.3	850.5	395.1	289.4	284.3	289.4	294.4	299.4	307.0
27.5°	1451.9	1378.9	1238.0	707.1	284.3	269.2	274.3	276.8	276.8	284.3	286.9
30°	1504.7	1446.8	1263.2	546.0	251.6	249.1	254.1	256.7	259.2	266.7	269.2
32.5°	1555.0	1534.9	1230.4	369.9	236.5	231.5	229.0	231.5	241.6	249.1	246.6
35°	1628.0	1615.4	1182.6	256.7	221.4	211.4	206.3	208.8	216.4	223.9	221.4
37.5°	1716.1	1728.7	1066.9	223.9	206.3	193.8	183.7	183.7	186.2	193.8	196.3
40°	1819.3	1852.0	931.0	208.8	196.3	181.2	171.1	158.5	156.0	153.5	156.0
42.5°	2008.0	2045.7	777.5	198.8	181.2	163.6	148.5	133.4	120.8	113.2	113.2
45°	2272.2	2242.0	576.2	188.7	173.6	148.5	125.8	108.2	90.6	83.0	83.0
47.5°	2637.0	2533.9	395.1	178.7	161.0	130.8	105.7	83.0	67.9	60.4	60.4
50°	3142.8	2803.1	256.7	168.6	153.5	113.2	85.6	60.4	50.3	47.8	50.3
52.5°	3620.9	3077.4	203.8	156.0	138.4	98.1	65.4	50.3	45.3	42.8	42.8
55°	4061.2	3215.8	181.2	143.4	125.8	80.5	55.4	42.8	40.3	37.7	37.7
57.5°	4433.6	3263.6	156.0	125.8	100.7	62.9	45.3	37.7	32.7	30.2	30.2
60°	4755.7	3276.2	120.8	100.7	73.0	47.8	37.7	32.7	27.7	22.6	22.6
62.5°	5012.4	3188.1	85.6	70.5	50.3	37.7	32.7	22.6	15.1	10.1	7.5
65°	5216.2	3012.0	57.9	47.8	32.7	27.7	20.1	10.1	2.5	0.0	0.0
67.5°	4977.2	2611.9	45.3	35.2	22.6	17.6	10.1	2.5	0.0	0.0	0.0
70°	4058.7	2025.6	32.7	22.6	15.1	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	2762.8	1305.9	25.2	15.1	7.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1240.5	468.0	17.6	10.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	302.0	110.7	12.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	80.5	27.7	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.2	10.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	0.0	0.0	0.0	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)