

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: P675638

Luminaire Tested: **CCW-SA-2B-850-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675638  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-850-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL3 distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

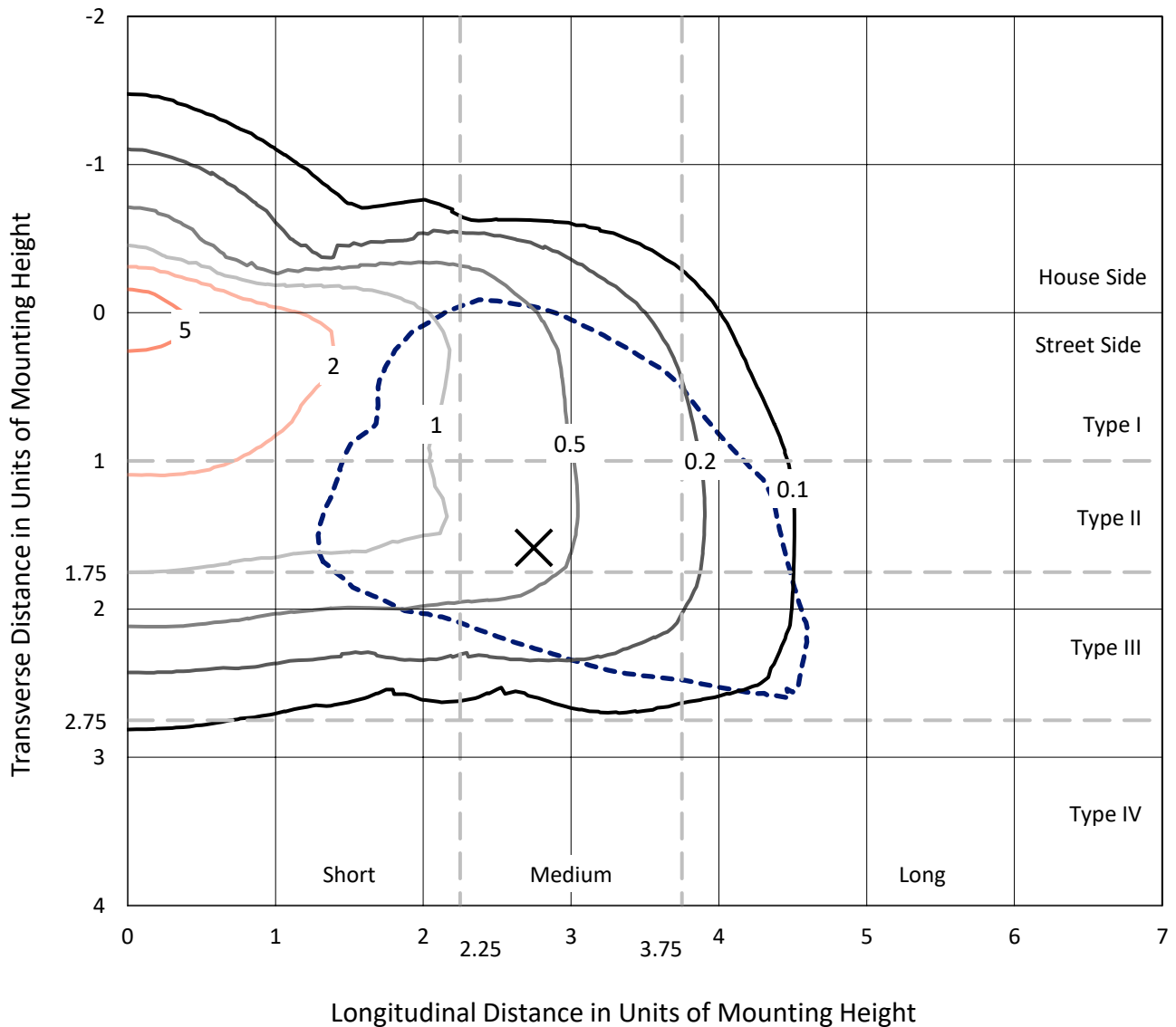
Lumens per Lamp: N/A  
Luminaire Lumens: 5958.5 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

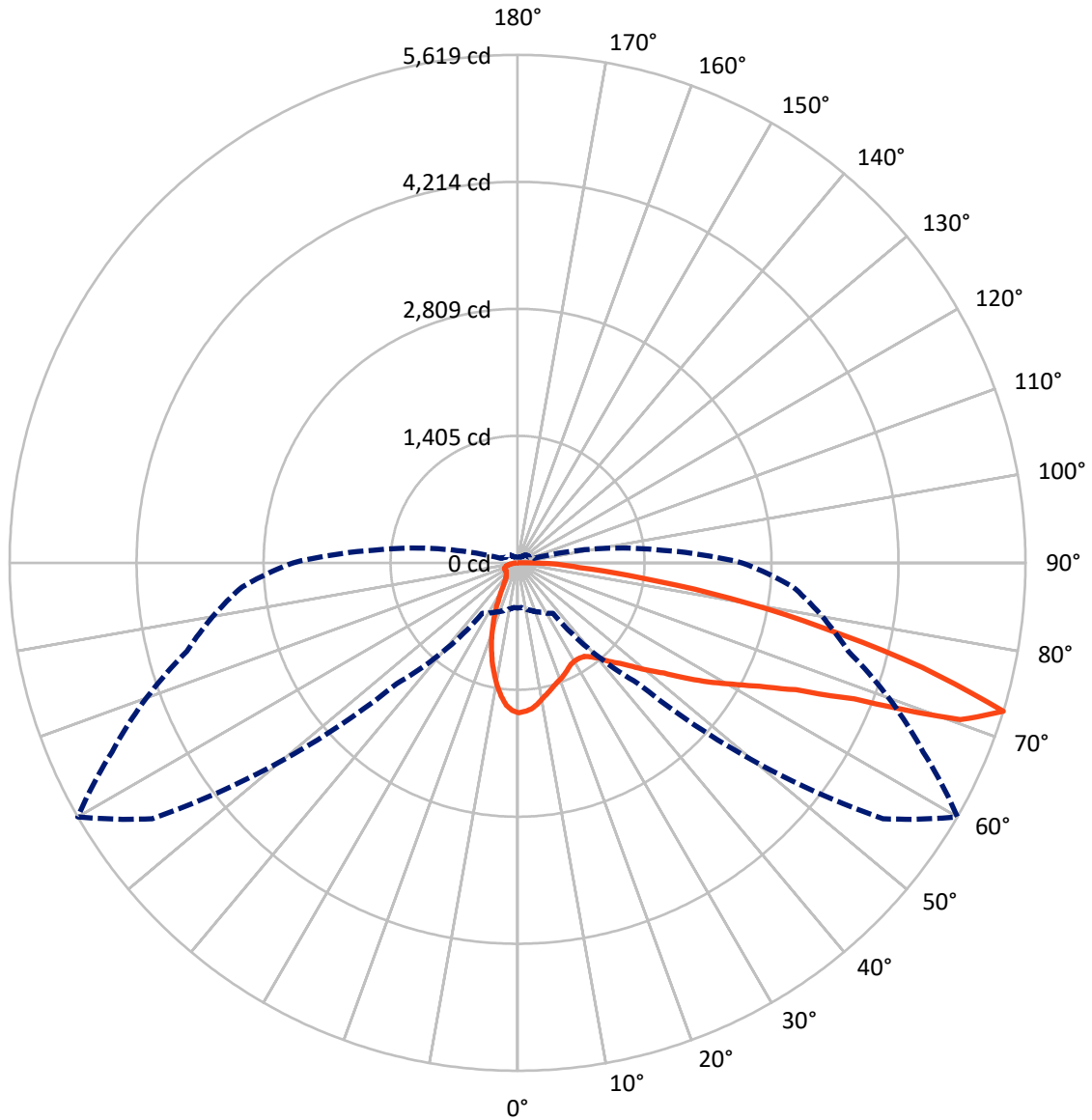
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1023.6	0.0	1023.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	4934.9	0.0	4934.9
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	5958.5	0.0	5958.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.8	2.4
10°-20°	326.1	5.5
20°-30°	417.4	7.0
30°-40°	533.9	9.0
40°-50°	732.3	12.3
50°-60°	1059.1	17.8
60°-70°	1453.0	24.4
70°-80°	1090.3	18.3
80°-90°	202.6	3.4
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°	5958.5	100.0
0°-180°	5958.5	100.0

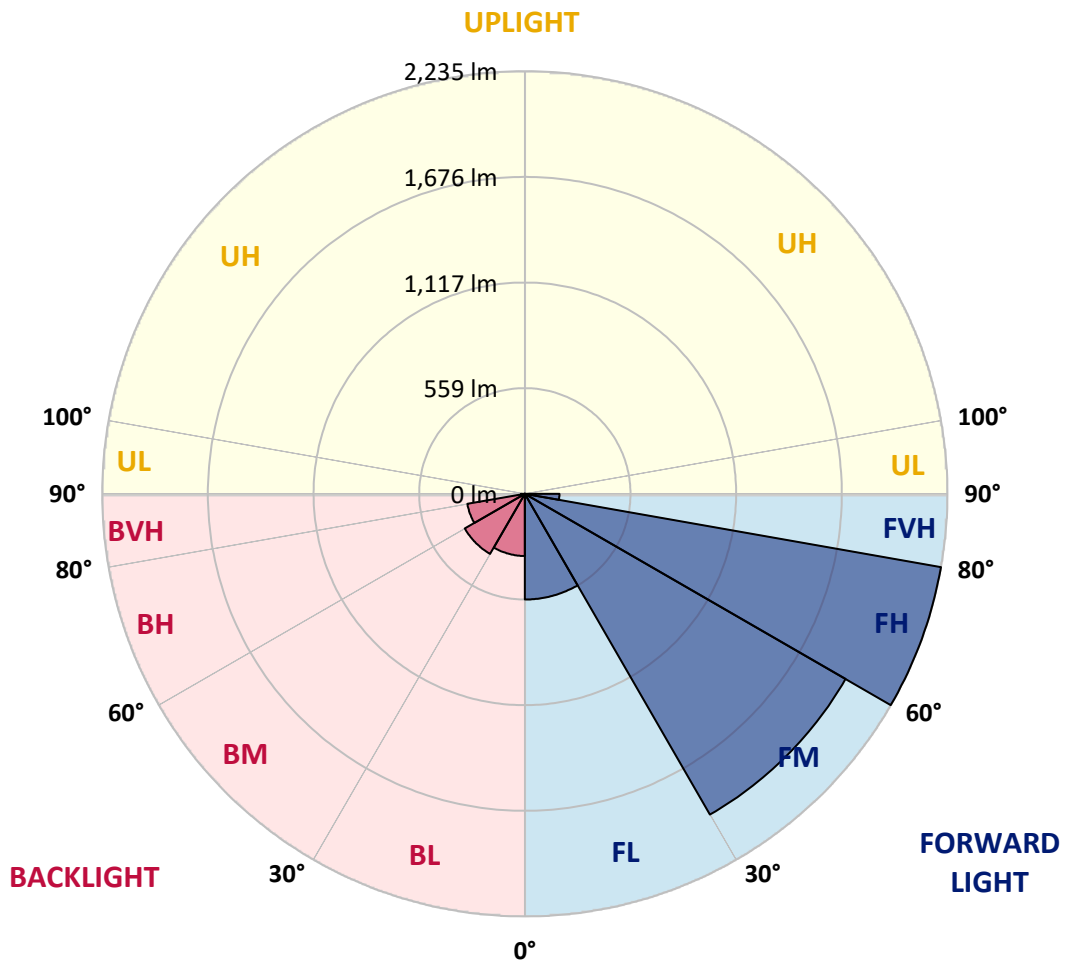


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.7	9.4			
FM (30°-60°)	1958.5	32.9			
FH (60°-80°)	2234.8	37.5			G2/5000
FVH (80°-90°)	182.9	3.1			G2/225
BL (0°-30°)	328.6	5.5	B1/500		
BM (30°-60°)	366.8	6.2	B1/1000		
BH (60°-80°)	308.4	5.2	B1/500		G1/500
BVH (80°-90°)	19.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1
2.5°	1623.7	1639.2	1643.6	1643.6	1656.9	1641.4	1663.6	1645.8	1650.3	1656.9	1652.5
5°	1546.0	1572.6	1557.1	1585.9	1574.9	1594.8	1621.4	1621.4	1614.8	1628.1	1617.0
7.5°	1470.6	1461.7	1488.4	1488.4	1506.1	1532.7	1554.9	1577.1	1579.3	1583.7	1581.5
10°	1368.6	1379.7	1393.0	1410.7	1432.9	1459.5	1506.1	1523.8	1528.3	1554.9	1548.2
12.5°	1284.3	1299.8	1308.7	1344.2	1364.1	1401.8	1455.1	1479.5	1481.7	1519.4	1519.4
15°	1222.2	1231.1	1251.0	1264.3	1308.7	1361.9	1412.9	1435.1	1459.5	1499.4	1488.4
17.5°	1180.0	1191.1	1200.0	1217.7	1259.9	1304.2	1384.1	1397.4	1426.2	1483.9	1470.6
20°	1155.6	1157.9	1171.2	1182.3	1220.0	1262.1	1333.1	1368.6	1406.3	1457.3	1444.0
22.5°	1160.1	1151.2	1149.0	1164.5	1171.2	1211.1	1297.6	1335.3	1388.5	1448.4	1426.2
25°	1168.9	1171.2	1166.7	1153.4	1155.6	1191.1	1248.8	1297.6	1357.5	1446.2	1401.8
27.5°	1191.1	1202.2	1184.5	1171.2	1157.9	1171.2	1231.1	1266.5	1333.1	1457.3	1399.6
30°	1213.3	1224.4	1220.0	1200.0	1173.4	1168.9	1211.1	1255.4	1319.8	1466.2	1399.6
32.5°	1246.6	1262.1	1246.6	1253.2	1222.2	1202.2	1217.7	1257.7	1333.1	1497.2	1401.8
35°	1284.3	1297.6	1302.0	1286.5	1279.8	1242.1	1251.0	1271.0	1346.4	1532.7	1424.0
37.5°	1326.4	1342.0	1355.3	1357.5	1335.3	1313.1	1308.7	1319.8	1379.7	1594.8	1448.4
40°	1355.3	1364.1	1390.8	1412.9	1419.6	1388.5	1386.3	1386.3	1439.6	1650.3	1492.8
42.5°	1404.1	1399.6	1437.3	1477.3	1488.4	1470.6	1475.0	1492.8	1523.8	1730.1	1563.8
45°	1428.5	1424.0	1468.4	1534.9	1585.9	1577.1	1581.5	1588.2	1617.0	1856.6	1683.5
47.5°	1461.7	1466.2	1530.5	1605.9	1659.1	1690.2	1714.6	1712.4	1734.6	1985.2	1816.6
50°	1495.0	1503.9	1581.5	1661.4	1754.5	1807.8	1843.2	1867.6	1889.8	2120.5	1969.7
52.5°	1559.3	1568.2	1654.7	1741.2	1861.0	1938.6	2027.4	2025.1	2027.4	2255.8	2122.7
55°	1652.5	1654.7	1705.7	1805.5	1967.5	2109.4	2231.4	2244.7	2207.0	2424.4	2298.0
57.5°	1759.0	1767.8	1812.2	1887.6	2051.8	2273.6	2459.9	2486.5	2384.5	2561.9	2457.7
60°	1858.8	1865.4	1934.2	2020.7	2198.1	2479.8	2690.6	2721.6	2610.7	2730.5	2624.0
62.5°	1745.7	1778.9	1900.9	2098.3	2455.4	2792.6	2983.4	3003.3	2830.3	2901.3	2801.5
65°	1397.4	1419.6	1594.8	1914.2	2473.2	3360.4	3435.9	3382.6	3132.0	3120.9	3069.9
67.5°	778.6	796.3	916.1	1251.0	2082.8	3573.4	4409.6	4019.2	3600.0	3451.4	3433.6
70°	614.4	618.9	634.4	703.1	1155.6	3149.7	5177.1	5194.8	4365.2	3906.1	3511.3
72.5°	499.1	496.9	543.4	603.3	683.2	1889.8	4935.3	5618.5	4950.8	3786.3	3058.8
75°	381.5	388.2	448.1	534.6	625.5	889.5	3682.1	4622.5	4638.1	3529.0	2579.7
77.5°	290.6	292.8	359.3	472.5	612.2	627.7	2402.2	3444.7	3460.2	2732.7	1421.8
80°	217.4	217.4	272.8	399.3	596.7	578.9	1479.5	2388.9	2162.7	960.4	310.5
82.5°	124.2	133.1	181.9	303.9	541.2	556.7	834.0	1368.6	913.9	261.7	144.2
85°	66.5	68.8	110.9	204.1	445.8	532.3	636.6	681.0	363.8	139.7	66.5
87.5°	24.4	24.4	51.0	104.3	281.7	394.8	505.7	434.7	208.5	64.3	33.3
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°	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1
2.5°	1656.9	1648.1	1641.4	1648.1	1623.7	1612.6	1625.9	1619.2	1605.9	1599.3	1594.8
5°	1623.7	1612.6	1601.5	1594.8	1568.2	1541.6	1528.3	1501.7	1479.5	1486.1	1472.8
7.5°	1588.2	1577.1	1543.8	1512.8	1459.5	1406.3	1381.9	1344.2	1330.9	1319.8	1313.1
10°	1543.8	1523.8	1472.8	1410.7	1333.1	1273.2	1211.1	1166.7	1120.1	1100.2	1106.8
12.5°	1488.4	1477.3	1397.4	1302.0	1193.3	1093.5	1020.3	949.4	887.2	854.0	845.1
15°	1464.0	1430.7	1315.3	1188.9	1051.4	927.2	818.5	694.3	621.1	585.6	585.6
17.5°	1437.3	1375.2	1237.7	1064.7	907.2	747.5	594.5	481.3	423.7	403.7	403.7
20°	1395.2	1326.4	1146.8	947.1	756.4	563.4	425.9	363.8	346.0	332.7	334.9
22.5°	1364.1	1279.8	1062.5	831.8	598.9	419.2	334.9	315.0	308.3	303.9	306.1
25°	1328.6	1224.4	973.7	707.6	470.2	330.5	290.6	281.7	286.1	288.4	288.4
27.5°	1299.8	1177.8	882.8	574.5	354.9	279.5	261.7	259.5	268.4	272.8	275.0
30°	1279.8	1135.7	794.1	452.5	283.9	248.4	239.6	239.6	250.6	255.1	257.3
32.5°	1259.9	1100.2	698.7	346.0	241.8	221.8	219.6	221.8	228.5	228.5	230.7
35°	1266.5	1066.9	607.8	279.5	217.4	204.1	204.1	204.1	206.3	208.5	208.5
37.5°	1279.8	1058.0	510.2	235.1	199.6	190.8	190.8	188.5	190.8	188.5	190.8
40°	1293.2	1044.7	421.4	208.5	188.5	181.9	179.7	175.2	173.0	173.0	175.2
42.5°	1348.6	1062.5	346.0	190.8	179.7	175.2	168.6	164.1	161.9	161.9	161.9
45°	1419.6	1095.7	286.1	181.9	173.0	161.9	157.5	155.3	150.8	153.0	155.3
47.5°	1526.1	1146.8	250.6	175.2	166.4	153.0	148.6	144.2	144.2	148.6	148.6
50°	1665.8	1231.1	228.5	168.6	159.7	146.4	139.7	137.5	137.5	144.2	144.2
52.5°	1816.6	1328.6	219.6	166.4	153.0	139.7	133.1	130.9	130.9	139.7	139.7
55°	1967.5	1448.4	226.2	166.4	148.6	133.1	126.4	122.0	124.2	130.9	130.9
57.5°	2133.8	1577.1	259.5	166.4	144.2	130.9	122.0	115.3	117.6	119.8	119.8
60°	2315.7	1745.7	317.2	166.4	142.0	126.4	115.3	106.5	106.5	108.7	108.7
62.5°	2499.8	1912.0	399.3	168.6	144.2	124.2	106.5	97.6	95.4	97.6	97.6
65°	2741.6	2178.2	481.3	168.6	150.8	119.8	99.8	88.7	86.5	86.5	88.7
67.5°	3081.0	2368.9	372.6	161.9	155.3	119.8	93.2	82.1	77.6	77.6	77.6
70°	2901.3	1998.5	237.3	150.8	148.6	124.2	88.7	75.4	71.0	68.8	68.8
72.5°	2484.3	1599.3	190.8	142.0	137.5	122.0	84.3	71.0	64.3	62.1	62.1
75°	1991.9	1262.1	166.4	128.7	119.8	102.0	77.6	64.3	59.9	55.5	55.5
77.5°	976.0	527.9	126.4	113.1	102.0	77.6	68.8	59.9	53.2	48.8	48.8
80°	244.0	184.1	93.2	88.7	75.4	59.9	55.5	51.0	46.6	42.1	42.1
82.5°	130.9	108.7	66.5	59.9	51.0	42.1	42.1	39.9	37.7	33.3	31.1
85°	66.5	64.3	44.4	39.9	33.3	26.6	28.8	28.8	26.6	20.0	20.0
87.5°	35.5	35.5	22.2	17.7	15.5	13.3	13.3	13.3	11.1	8.9	8.9
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)