

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: P675528

Luminaire Tested: **CCW-SA-2B-727-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675528  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-727-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL3 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

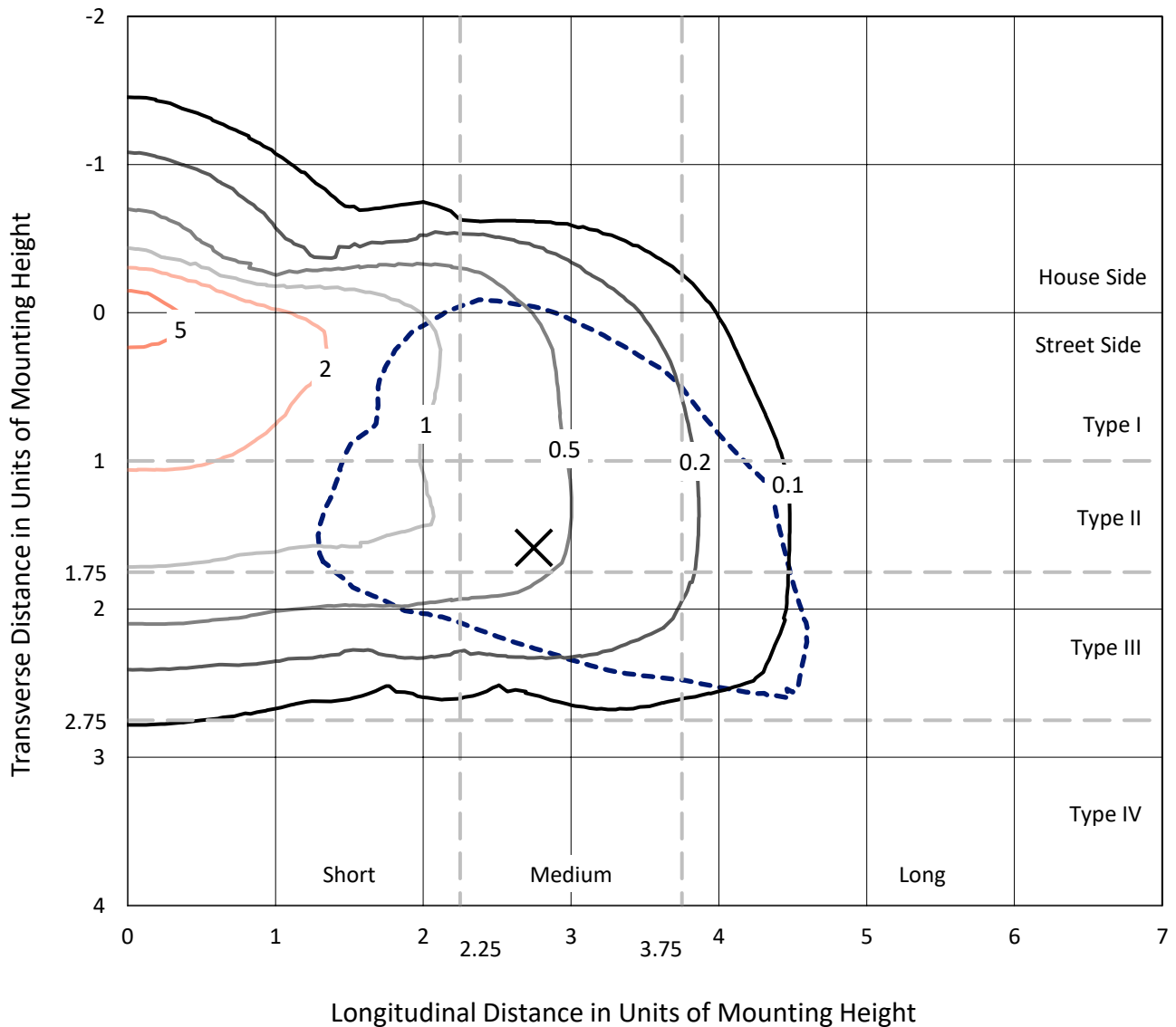
Lumens per Lamp: N/A  
Luminaire Lumens: 5710.6 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

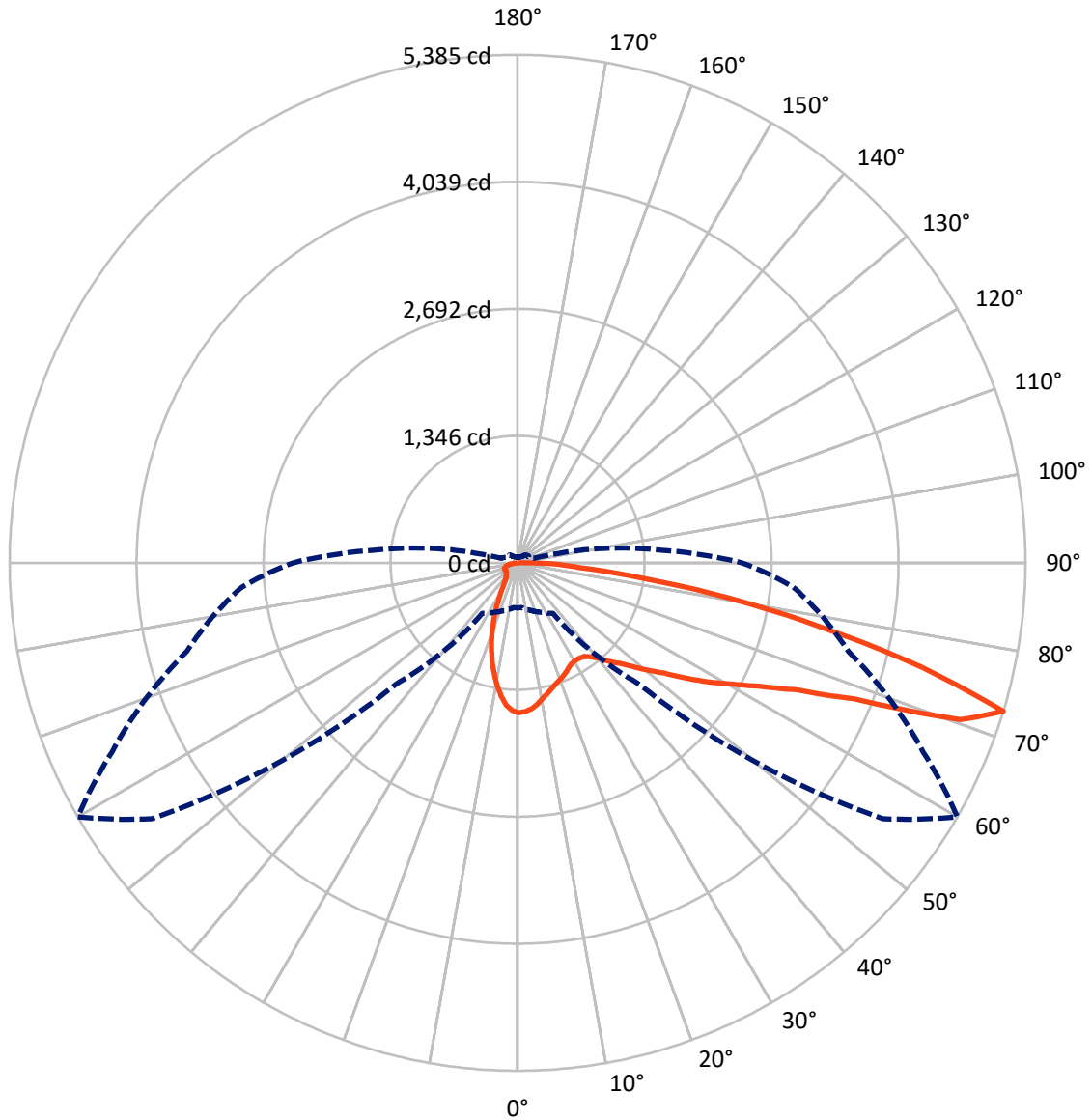
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 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	981.0	0.0	981.0
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	4729.6	0.0	4729.6
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	5710.6	0.0	5710.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	2.4
10°-20°	312.5	5.5
20°-30°	400.0	7.0
30°-40°	511.7	9.0
40°-50°	701.8	12.3
50°-60°	1015.1	17.8
60°-70°	1392.5	24.4
70°-80°	1044.9	18.3
80°-90°	194.2	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°	5710.6	100.0
0°-180°	5710.6	100.0

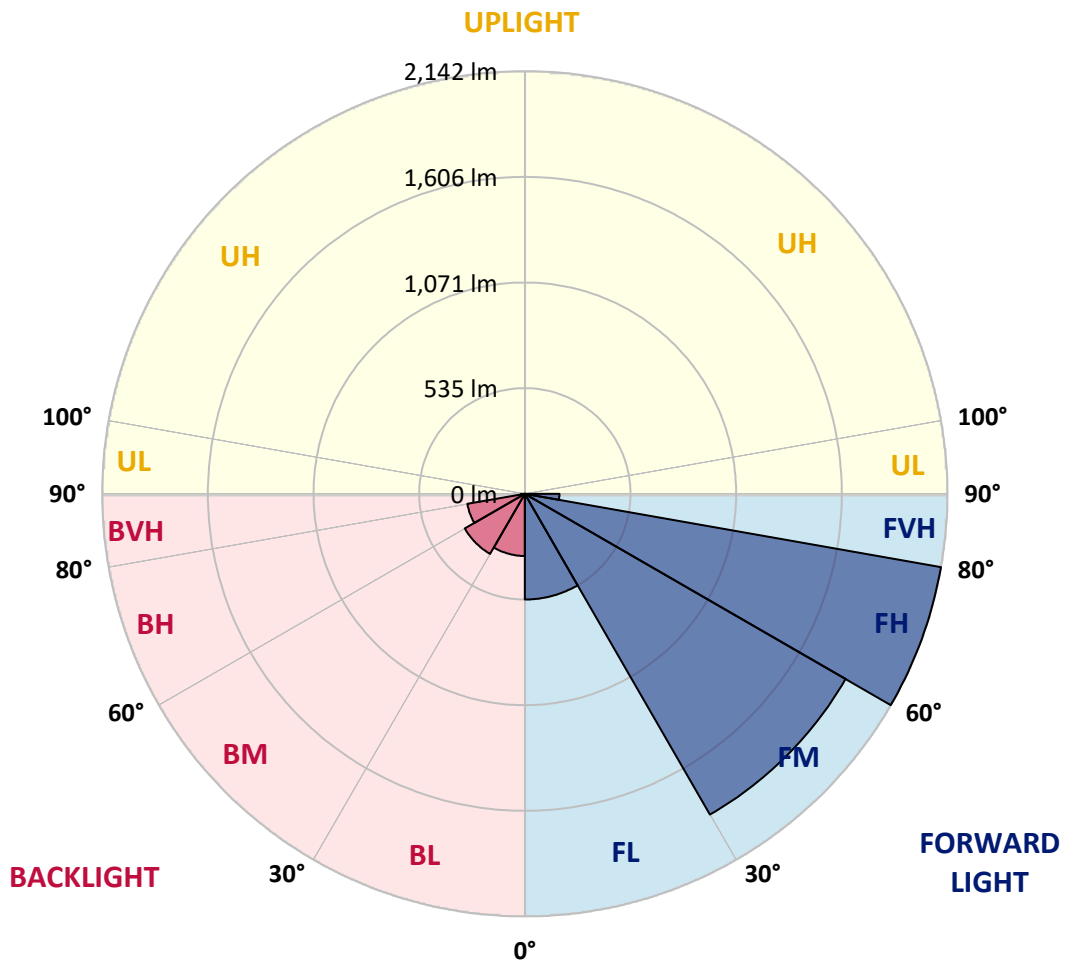


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.5	9.4			
FM (30°-60°)	1877.0	32.9			
FH (60°-80°)	2141.8	37.5			G2/5000
FVH (80°-90°)	175.3	3.1			G2/225
BL (0°-30°)	314.9	5.5	B1/500		
BM (30°-60°)	351.5	6.2	B1/1000		
BH (60°-80°)	295.6	5.2	B1/500		G1/500
BVH (80°-90°)	18.9	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°	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1
2.5°	1556.1	1571.0	1575.2	1575.2	1588.0	1573.1	1594.4	1577.4	1581.6	1588.0	1583.7
5°	1481.7	1507.2	1492.3	1520.0	1509.3	1528.5	1554.0	1554.0	1547.6	1560.4	1549.7
7.5°	1409.4	1400.9	1426.4	1426.4	1443.4	1469.0	1490.2	1511.5	1513.6	1517.8	1515.7
10°	1311.6	1322.3	1335.0	1352.0	1373.3	1398.8	1443.4	1460.4	1464.7	1490.2	1483.8
12.5°	1230.9	1245.7	1254.2	1288.3	1307.4	1343.5	1394.5	1417.9	1420.1	1456.2	1456.2
15°	1171.3	1179.8	1199.0	1211.7	1254.2	1305.3	1354.2	1375.4	1398.8	1437.1	1426.4
17.5°	1130.9	1141.6	1150.1	1167.1	1207.5	1250.0	1326.5	1339.3	1366.9	1422.2	1409.4
20°	1107.6	1109.7	1122.4	1133.1	1169.2	1209.6	1277.6	1311.6	1347.8	1396.7	1383.9
22.5°	1111.8	1103.3	1101.2	1116.1	1122.4	1160.7	1243.6	1279.8	1330.8	1388.2	1366.9
25°	1120.3	1122.4	1118.2	1105.4	1107.6	1141.6	1196.8	1243.6	1301.0	1386.0	1343.5
27.5°	1141.6	1152.2	1135.2	1122.4	1109.7	1122.4	1179.8	1213.9	1277.6	1396.7	1341.4
30°	1162.8	1173.5	1169.2	1150.1	1124.6	1120.3	1160.7	1203.2	1264.9	1405.2	1341.4
32.5°	1194.7	1209.6	1194.7	1201.1	1171.3	1152.2	1167.1	1205.3	1277.6	1434.9	1343.5
35°	1230.9	1243.6	1247.9	1233.0	1226.6	1190.5	1199.0	1218.1	1290.4	1469.0	1364.8
37.5°	1271.2	1286.1	1298.9	1301.0	1279.8	1258.5	1254.2	1264.9	1322.3	1528.5	1388.2
40°	1298.9	1307.4	1332.9	1354.2	1360.5	1330.8	1328.6	1328.6	1379.7	1581.6	1430.7
42.5°	1345.7	1341.4	1377.5	1415.8	1426.4	1409.4	1413.7	1430.7	1460.4	1658.2	1498.7
45°	1369.0	1364.8	1407.3	1471.1	1520.0	1511.5	1515.7	1522.1	1549.7	1779.3	1613.5
47.5°	1400.9	1405.2	1466.8	1539.1	1590.1	1619.9	1643.3	1641.1	1662.4	1902.6	1741.1
50°	1432.8	1441.3	1515.7	1592.3	1681.5	1732.6	1766.6	1790.0	1811.2	2032.3	1887.7
52.5°	1494.5	1503.0	1585.9	1668.8	1783.6	1858.0	1943.0	1940.9	1943.0	2162.0	2034.4
55°	1583.7	1585.9	1634.8	1730.4	1885.6	2021.7	2138.6	2151.3	2115.2	2323.5	2202.4
57.5°	1685.8	1694.3	1736.8	1809.1	1966.4	2179.0	2357.6	2383.1	2285.3	2455.3	2355.4
60°	1781.5	1787.8	1853.7	1936.6	2106.7	2376.7	2578.6	2608.4	2502.1	2616.9	2514.9
62.5°	1673.0	1704.9	1821.8	2011.0	2353.3	2676.4	2859.2	2878.4	2712.6	2780.6	2684.9
65°	1339.3	1360.5	1528.5	1834.6	2370.3	3220.6	3292.9	3241.9	3001.7	2991.1	2942.2
67.5°	746.2	763.2	878.0	1199.0	1996.2	3424.7	4226.2	3852.0	3450.2	3307.8	3290.8
70°	588.9	593.1	608.0	673.9	1107.6	3018.7	4961.7	4978.7	4183.6	3743.6	3365.2
72.5°	478.3	476.2	520.8	578.2	654.8	1811.2	4730.0	5384.7	4744.9	3628.8	2931.5
75°	365.6	372.0	429.4	512.3	599.5	852.5	3528.9	4430.2	4445.1	3382.2	2472.3
77.5°	278.5	280.6	344.4	452.8	586.7	601.6	2302.3	3301.4	3316.3	2619.0	1362.7
80°	208.3	208.3	261.5	382.7	571.8	554.8	1417.9	2289.5	2072.7	920.5	297.6
82.5°	119.0	127.6	174.3	291.2	518.7	533.6	799.3	1311.6	875.8	250.8	138.2
85°	63.8	65.9	106.3	195.6	427.3	510.2	610.1	652.6	348.6	133.9	63.8
87.5°	23.4	23.4	48.9	99.9	270.0	378.4	484.7	416.7	199.8	61.6	31.9
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°	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1
2.5°	1588.0	1579.5	1573.1	1579.5	1556.1	1545.5	1558.2	1551.9	1539.1	1532.7	1528.5
5°	1556.1	1545.5	1534.9	1528.5	1503.0	1477.5	1464.7	1439.2	1417.9	1424.3	1411.6
7.5°	1522.1	1511.5	1479.6	1449.8	1398.8	1347.8	1324.4	1288.3	1275.5	1264.9	1258.5
10°	1479.6	1460.4	1411.6	1352.0	1277.6	1220.2	1160.7	1118.2	1073.5	1054.4	1060.8
12.5°	1426.4	1415.8	1339.3	1247.9	1143.7	1048.0	977.9	909.9	850.3	818.4	809.9
15°	1403.1	1371.2	1260.6	1139.4	1007.6	888.6	784.4	665.4	595.2	561.2	561.2
17.5°	1377.5	1318.0	1186.2	1020.4	869.5	716.4	569.7	461.3	406.0	386.9	386.9
20°	1337.2	1271.2	1099.1	907.7	724.9	540.0	408.2	348.6	331.6	318.9	321.0
22.5°	1307.4	1226.6	1018.3	797.2	574.0	401.8	321.0	301.9	295.5	291.2	293.4
25°	1273.4	1173.5	933.2	678.1	450.7	316.7	278.5	270.0	274.2	276.4	276.4
27.5°	1245.7	1128.8	846.1	550.6	340.1	267.9	250.8	248.7	257.2	261.5	263.6
30°	1226.6	1088.4	761.0	433.7	272.1	238.1	229.6	229.6	240.2	244.5	246.6
32.5°	1207.5	1054.4	669.6	331.6	231.7	212.6	210.5	212.6	219.0	219.0	221.1
35°	1213.9	1022.5	582.5	267.9	208.3	195.6	195.6	195.6	197.7	199.8	199.8
37.5°	1226.6	1014.0	488.9	225.3	191.3	182.8	182.8	180.7	182.8	180.7	182.8
40°	1239.4	1001.3	403.9	199.8	180.7	174.3	172.2	167.9	165.8	165.8	167.9
42.5°	1292.5	1018.3	331.6	182.8	172.2	167.9	161.6	157.3	155.2	155.2	155.2
45°	1360.5	1050.2	274.2	174.3	165.8	155.2	150.9	148.8	144.6	146.7	148.8
47.5°	1462.6	1099.1	240.2	167.9	159.4	146.7	142.4	138.2	138.2	142.4	142.4
50°	1596.5	1179.8	219.0	161.6	153.1	140.3	133.9	131.8	131.8	138.2	138.2
52.5°	1741.1	1273.4	210.5	159.4	146.7	133.9	127.6	125.4	125.4	133.9	133.9
55°	1885.6	1388.2	216.8	159.4	142.4	127.6	121.2	116.9	119.0	125.4	125.4
57.5°	2045.1	1511.5	248.7	159.4	138.2	125.4	116.9	110.5	112.7	114.8	114.8
60°	2219.4	1673.0	304.0	159.4	136.1	121.2	110.5	102.0	102.0	104.2	104.2
62.5°	2395.8	1832.5	382.7	161.6	138.2	119.0	102.0	93.5	91.4	93.5	93.5
65°	2627.5	2087.6	461.3	161.6	144.6	114.8	95.7	85.0	82.9	82.9	85.0
67.5°	2952.8	2270.4	357.1	155.2	148.8	114.8	89.3	78.7	74.4	74.4	74.4
70°	2780.6	1915.4	227.5	144.6	142.4	119.0	85.0	72.3	68.0	65.9	65.9
72.5°	2380.9	1532.7	182.8	136.1	131.8	116.9	80.8	68.0	61.6	59.5	59.5
75°	1909.0	1209.6	159.4	123.3	114.8	97.8	74.4	61.6	57.4	53.1	53.1
77.5°	935.4	505.9	121.2	108.4	97.8	74.4	65.9	57.4	51.0	46.8	46.8
80°	233.8	176.4	89.3	85.0	72.3	57.4	53.1	48.9	44.6	40.4	40.4
82.5°	125.4	104.2	63.8	57.4	48.9	40.4	40.4	38.3	36.1	31.9	29.8
85°	63.8	61.6	42.5	38.3	31.9	25.5	27.6	27.6	25.5	19.1	19.1
87.5°	34.0	34.0	21.3	17.0	14.9	12.8	12.8	12.8	10.6	8.5	8.5
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)