

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: P675253

Luminaire Tested: **CCW-SA-2D-730-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675253  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-730-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T4W distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

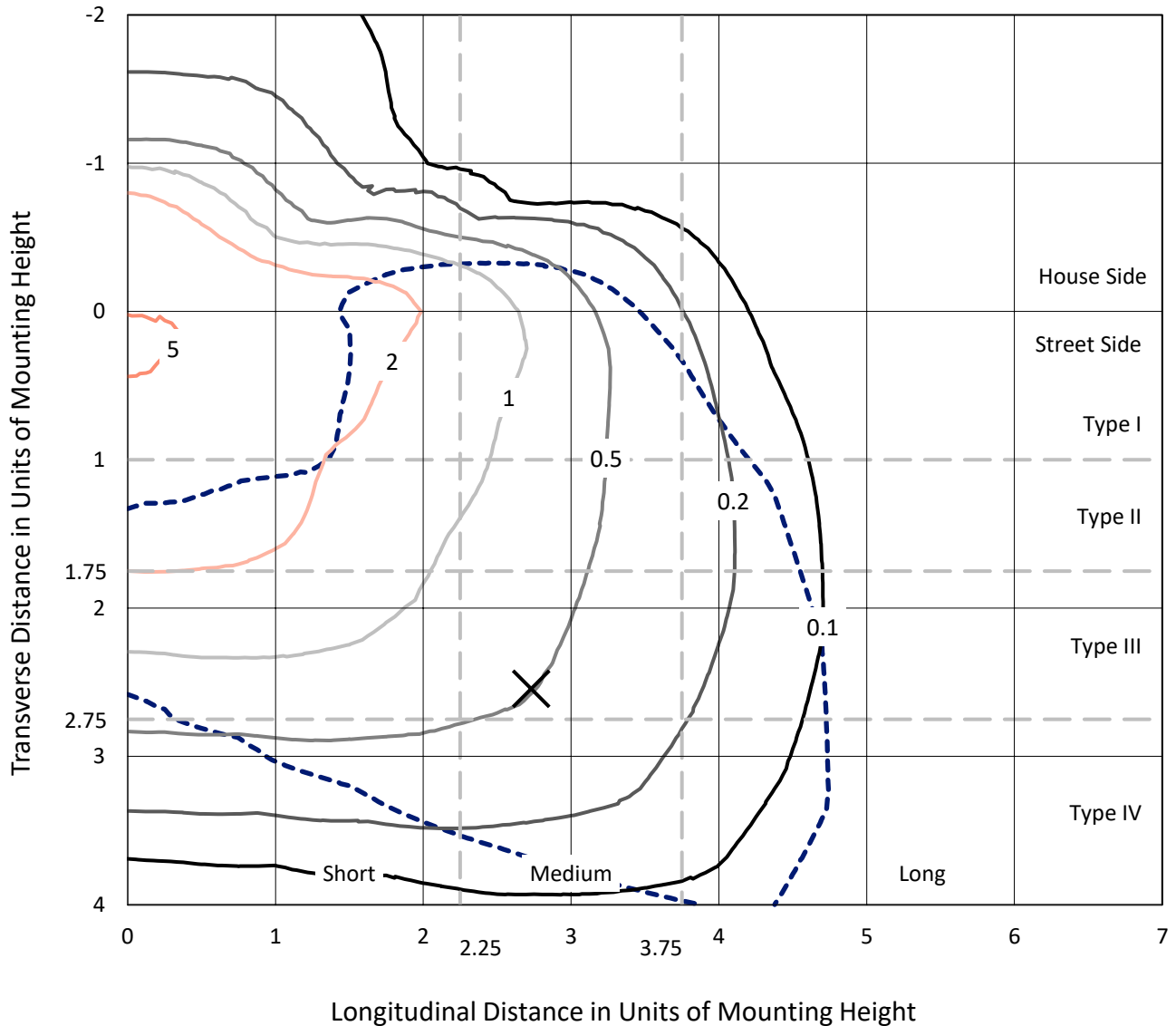
Lumens per Lamp: N/A  
Luminaire Lumens: 10245.3 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8  
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

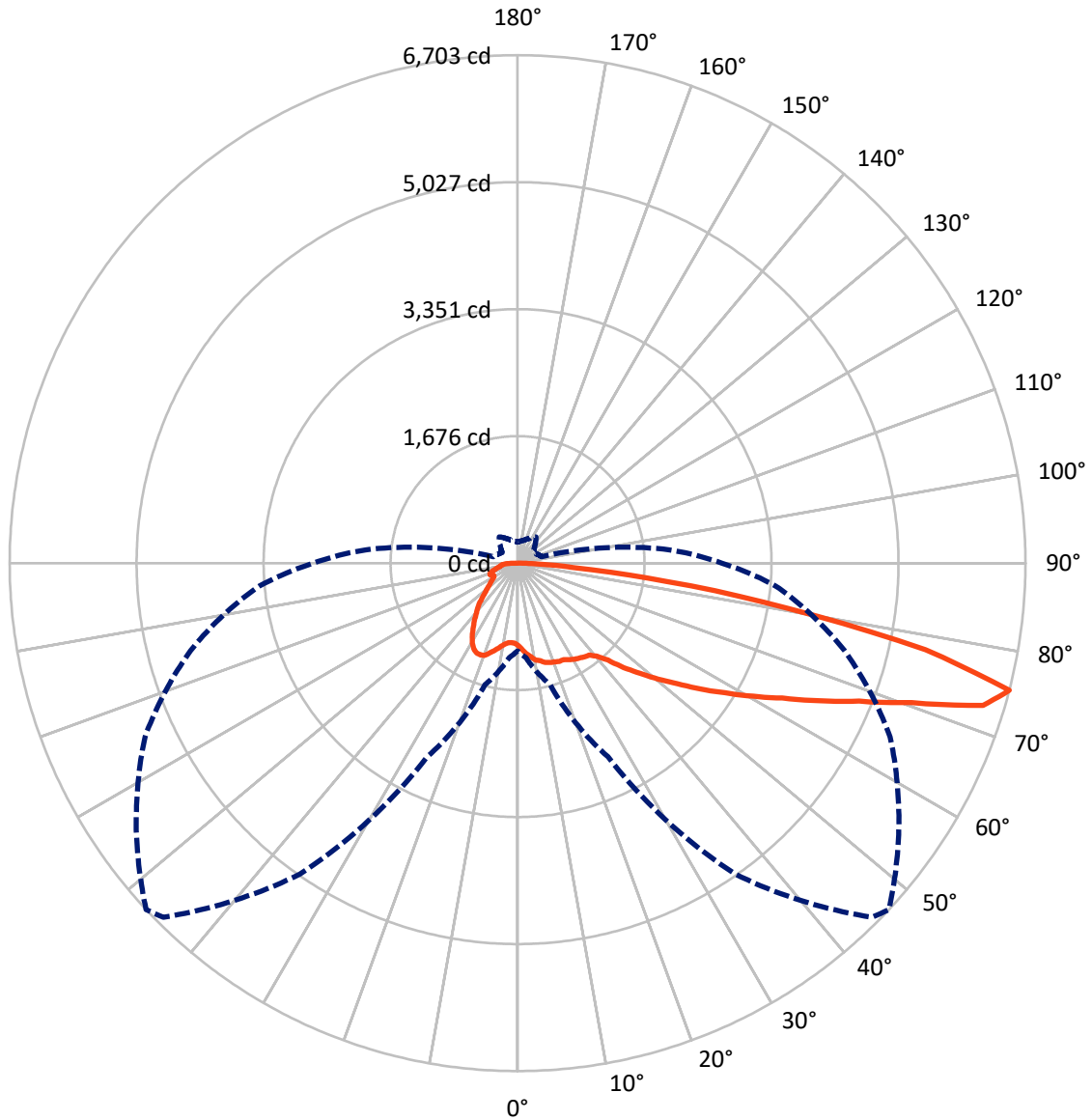
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2450.2	0.0	2450.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7795.2	0.0	7795.2
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	10245.3	0.0	10245.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.0	1.1
10°-20°	365.2	3.6
20°-30°	625.5	6.1
30°-40°	875.2	8.5
40°-50°	1220.3	11.9
50°-60°	1824.0	17.8
60°-70°	2629.8	25.7
70°-80°	2238.6	21.8
80°-90°	356.6	3.5
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°	10245.3	100.0
0°-180°	10245.3	100.0



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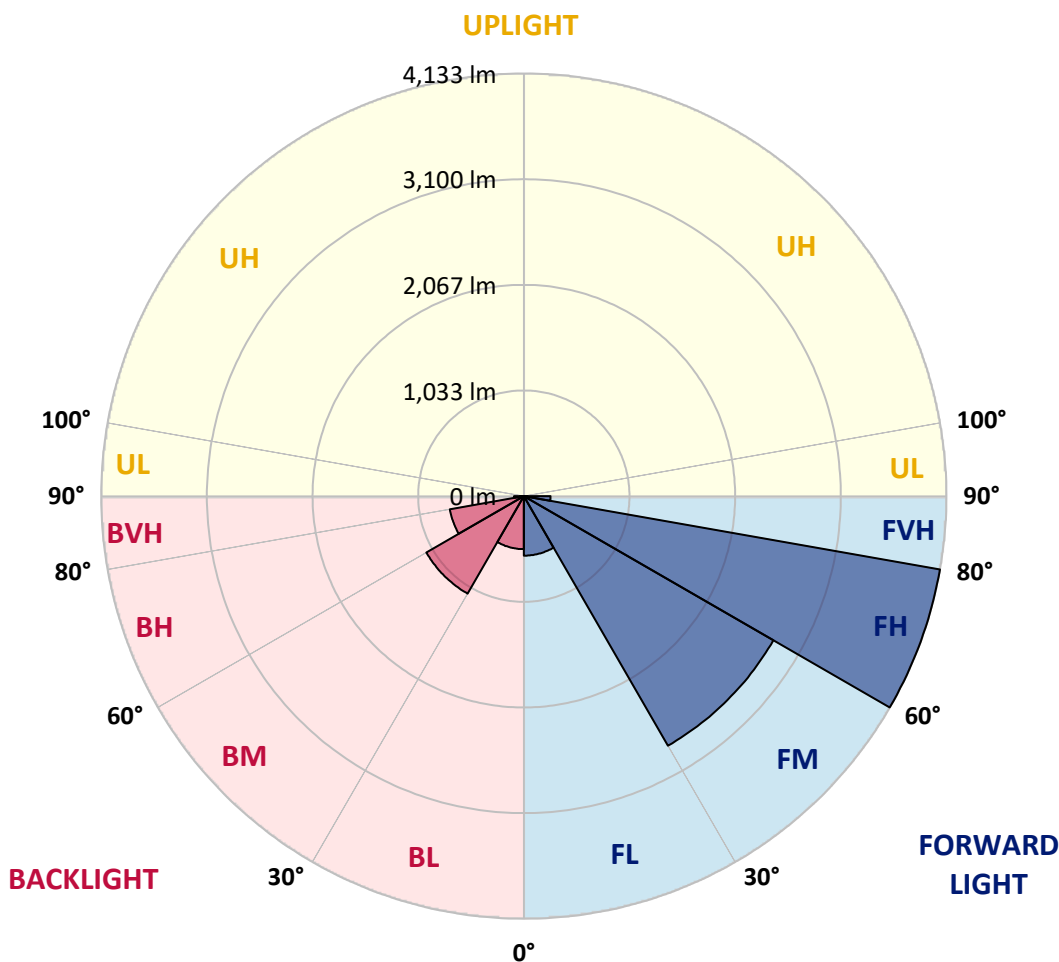
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.1	5.7			
FM (30°-60°)	2818.4	27.5			
FH (60°-80°)	4133.4	40.3			G2/5000
FVH (80°-90°)	261.3	2.6			G3/500
BL (0°-30°)	518.6	5.1	B2/1000		
BM (30°-60°)	1101.2	10.7	B2/2500		
BH (60°-80°)	735.0	7.2	B2/1000		G2/1000
BVH (80°-90°)	95.3	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1166.3	1170.1	1170.1	1162.6	1155.1	1140.2	1140.2	1125.2	1117.7	1099.1	1091.6
5°	1274.8	1263.5	1252.3	1248.6	1229.9	1203.7	1200.0	1185.0	1143.9	1125.2	1099.1
7.5°	1353.3	1349.5	1345.8	1330.8	1297.2	1256.1	1244.8	1222.4	1181.3	1143.9	1114.0
10°	1416.8	1431.8	1416.8	1383.2	1349.5	1304.7	1300.9	1259.8	1222.4	1177.6	1140.2
12.5°	1487.8	1491.6	1465.4	1424.3	1371.9	1334.6	1319.6	1304.7	1263.5	1226.2	1170.1
15°	1536.4	1529.0	1510.3	1454.2	1394.4	1357.0	1360.7	1342.0	1297.2	1271.0	1211.2
17.5°	1536.4	1536.4	1506.5	1465.4	1413.1	1379.4	1379.4	1368.2	1338.3	1300.9	1259.8
20°	1506.5	1506.5	1487.8	1465.4	1405.6	1398.1	1390.6	1383.2	1383.2	1349.5	1289.7
22.5°	1469.1	1461.7	1469.1	1431.8	1390.6	1398.1	1409.3	1405.6	1394.4	1364.5	1323.3
25°	1431.8	1435.5	1443.0	1416.8	1379.4	1413.1	1409.3	1428.0	1420.5	1398.1	1364.5
27.5°	1428.0	1435.5	1439.2	1413.1	1398.1	1428.0	1443.0	1461.7	1465.4	1443.0	1401.9
30°	1484.1	1480.4	1476.6	1443.0	1431.8	1457.9	1472.9	1499.0	1521.5	1472.9	1439.2
32.5°	1629.9	1607.5	1585.0	1495.3	1461.7	1480.4	1495.3	1532.7	1536.4	1510.3	1461.7
35°	1861.7	1846.7	1771.9	1614.9	1521.5	1502.8	1517.7	1543.9	1551.4	1532.7	1495.3
37.5°	2127.1	2119.6	2014.9	1824.3	1644.8	1555.1	1540.2	1577.6	1607.5	1566.3	1514.0
40°	2388.8	2358.9	2284.1	2097.2	1801.8	1633.6	1614.9	1633.6	1644.8	1614.9	1581.3
42.5°	2624.3	2590.6	2571.9	2385.0	2007.5	1764.5	1749.5	1704.7	1738.3	1700.9	1656.1
45°	2822.4	2814.9	2807.4	2646.7	2243.0	1977.5	1966.3	1850.4	1887.8	1857.9	1794.4
47.5°	2964.5	2998.1	2986.9	2897.2	2512.1	2205.6	2171.9	2022.4	2078.5	2048.6	1985.0
50°	3132.7	3151.4	3140.2	3080.3	2762.6	2467.3	2403.7	2250.4	2314.0	2310.3	2276.6
52.5°	3282.2	3338.3	3274.7	3271.0	3121.5	2751.4	2643.0	2497.2	2601.8	2643.0	2639.2
55°	3457.9	3502.8	3484.1	3476.6	3443.0	3028.0	2930.8	2755.1	2930.8	2990.6	3043.0
57.5°	3607.4	3603.7	3674.7	3760.7	3801.8	3345.8	3229.9	3024.3	3289.7	3357.0	3502.8
60°	3674.7	3738.3	3857.9	4074.7	4190.6	3685.9	3566.3	3401.8	3652.3	3704.6	3973.8
62.5°	3719.6	3775.7	4007.4	4373.8	4441.1	4033.6	3921.5	3757.0	4048.6	4085.9	4485.9
65°	3596.2	3648.6	4108.4	4485.9	4725.2	4407.4	4381.3	4209.3	4444.8	4467.2	5024.2
67.5°	3454.2	3510.2	4022.4	4628.0	5102.7	4904.6	4863.5	4657.9	4837.3	4811.2	5435.5
70°	3203.7	3278.5	3801.8	4751.3	5521.4	5599.9	5517.7	5226.1	5244.8	4998.1	5454.1
72.5°	2441.1	2489.7	2975.7	4261.6	5715.8	6564.4	6422.4	5839.2	5626.1	5035.5	4814.9
75°	1158.9	1248.6	1659.8	2818.7	5009.3	6609.3	6702.7	6142.0	5424.2	4467.2	3413.0
77.5°	336.4	336.4	504.7	1196.2	3140.2	5327.0	5502.7	5214.9	4474.7	3308.4	1794.4
80°	183.2	194.4	265.4	422.4	1379.4	3360.7	3614.9	3457.9	2635.5	1308.4	463.5
82.5°	104.7	108.4	175.7	254.2	628.0	1828.0	1977.5	1794.4	1001.9	396.3	216.8
85°	59.8	63.6	100.9	168.2	373.8	672.9	732.7	635.5	403.7	265.4	108.4
87.5°	29.9	29.9	48.6	78.5	190.7	190.7	186.9	228.0	243.0	160.7	48.6
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°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1087.8	1084.1	1084.1	1069.1	1065.4	1054.2	1054.2	1046.7	1043.0	1054.2	1054.2
5°	1091.6	1072.9	1069.1	1054.2	1057.9	1050.5	1065.4	1057.9	1054.2	1054.2	1050.5
7.5°	1099.1	1080.4	1065.4	1054.2	1050.5	1061.7	1080.4	1080.4	1102.8	1091.6	1091.6
10°	1117.7	1106.5	1087.8	1080.4	1080.4	1091.6	1114.0	1129.0	1147.7	1147.7	1136.4
12.5°	1162.6	1143.9	1121.5	1110.3	1125.2	1136.4	1158.9	1173.8	1196.2	1203.7	1196.2
15°	1196.2	1177.6	1170.1	1162.6	1173.8	1188.8	1207.5	1222.4	1248.6	1256.1	1252.3
17.5°	1241.1	1218.7	1214.9	1218.7	1226.2	1237.4	1248.6	1259.8	1278.5	1278.5	1278.5
20°	1263.5	1256.1	1252.3	1263.5	1278.5	1293.4	1286.0	1278.5	1274.8	1282.2	1278.5
22.5°	1304.7	1297.2	1300.9	1312.1	1312.1	1304.7	1293.4	1267.3	1259.8	1267.3	1259.8
25°	1342.0	1334.6	1334.6	1327.1	1323.3	1297.2	1274.8	1252.3	1226.2	1237.4	1233.6
27.5°	1379.4	1375.7	1375.7	1345.8	1308.4	1263.5	1233.6	1207.5	1192.5	1211.2	1200.0
30°	1424.3	1428.0	1409.3	1338.3	1248.6	1200.0	1166.3	1162.6	1158.9	1170.1	1166.3
32.5°	1465.4	1469.1	1439.2	1327.1	1203.7	1110.3	1076.6	1080.4	1099.1	1117.7	1136.4
35°	1487.8	1506.5	1469.1	1289.7	1114.0	1009.3	972.0	1005.6	1039.2	1065.4	1084.1
37.5°	1529.0	1577.6	1514.0	1248.6	1035.5	919.6	893.4	904.7	945.8	986.9	1005.6
40°	1588.8	1644.8	1525.2	1170.1	930.8	829.9	814.9	818.7	833.6	859.8	878.5
42.5°	1693.4	1753.3	1536.4	1069.1	826.2	773.8	732.7	721.5	710.3	710.3	706.5
45°	1846.7	1902.8	1521.5	942.0	721.5	684.1	654.2	628.0	598.1	549.5	557.0
47.5°	2071.0	2115.9	1532.7	829.9	624.3	594.4	572.0	542.0	497.2	444.9	441.1
50°	2411.2	2343.9	1517.7	714.0	553.3	527.1	508.4	467.3	414.9	377.6	373.8
52.5°	2807.4	2672.9	1502.8	616.8	493.5	471.0	456.1	411.2	362.6	343.9	340.2
55°	3285.9	3091.6	1525.2	530.8	448.6	429.9	414.9	373.8	336.4	321.5	317.8
57.5°	3850.4	3543.9	1648.6	463.5	400.0	392.5	388.8	355.1	321.5	310.3	306.5
60°	4381.3	3977.5	1730.8	414.9	355.1	362.6	370.1	355.1	317.8	310.3	310.3
62.5°	4826.1	4336.4	1600.0	373.8	332.7	355.1	388.8	377.6	362.6	370.1	362.6
65°	5218.6	4459.8	1196.2	351.4	321.5	373.8	429.9	426.2	392.5	400.0	396.3
67.5°	5285.9	4310.2	781.3	332.7	314.0	411.2	482.2	437.4	370.1	370.1	358.9
70°	5005.5	3910.2	523.4	314.0	310.3	411.2	493.5	411.2	347.7	347.7	332.7
72.5°	4108.4	3125.2	403.7	295.3	284.1	366.4	467.3	388.8	325.2	317.8	291.6
75°	2699.0	2014.9	329.0	280.4	246.7	321.5	422.4	358.9	310.3	287.8	276.6
77.5°	1323.3	904.7	276.6	246.7	213.1	280.4	385.0	340.2	291.6	269.2	261.7
80°	362.6	325.2	231.8	216.8	179.4	243.0	362.6	325.2	272.9	250.5	239.2
82.5°	205.6	201.9	186.9	175.7	149.5	243.0	366.4	325.2	257.9	254.2	216.8
85°	112.1	119.6	134.6	130.8	115.9	216.8	347.7	284.1	209.3	175.7	175.7
87.5°	44.9	56.1	67.3	74.8	78.5	160.7	261.7	216.8	160.7	134.6	134.6
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)