

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: P675142

Luminaire Tested: **CCW-SA-2D-750-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675142  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-750-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T4FT distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

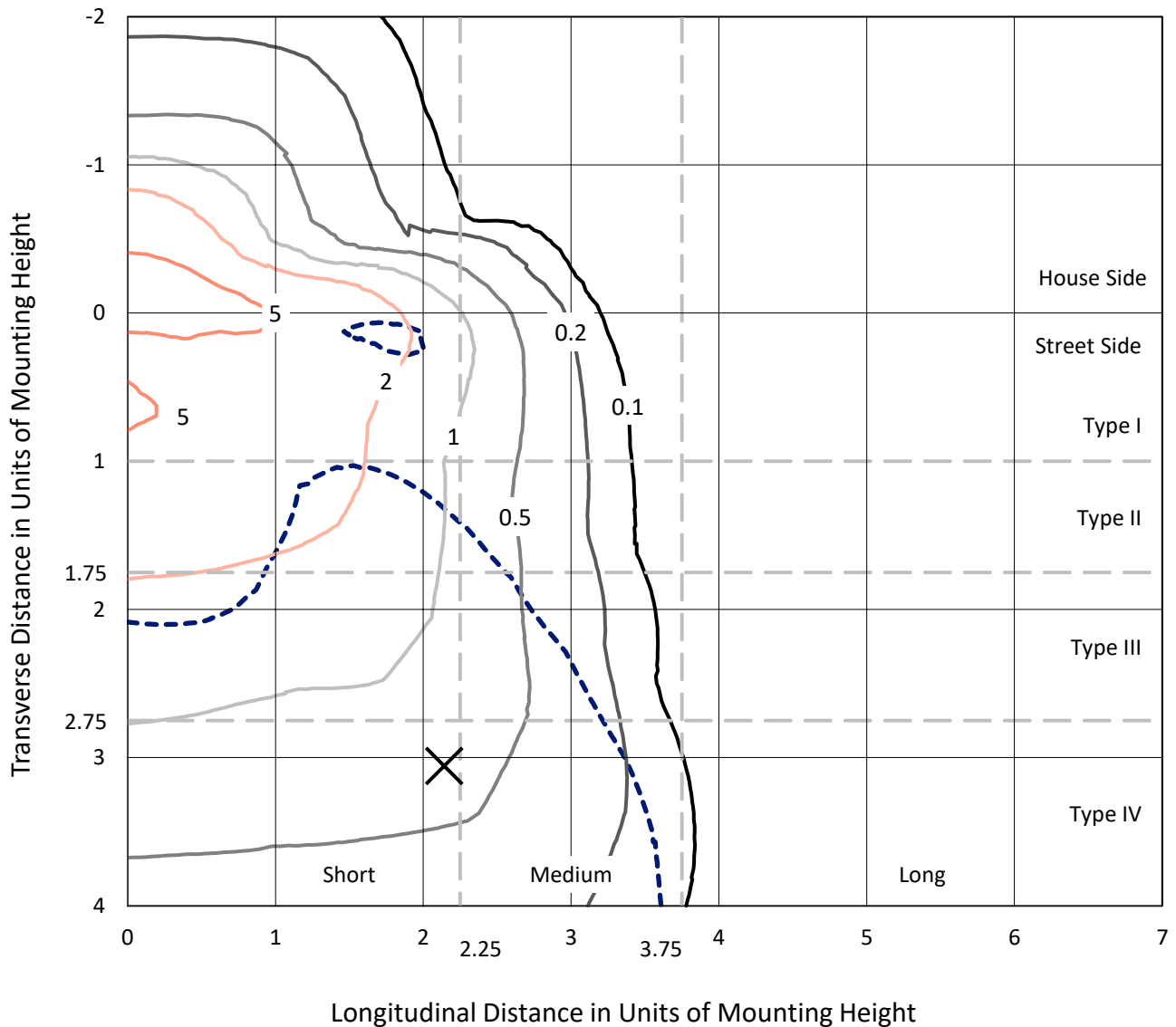
Lumens per Lamp: N/A  
Luminaire Lumens: 11401.1 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

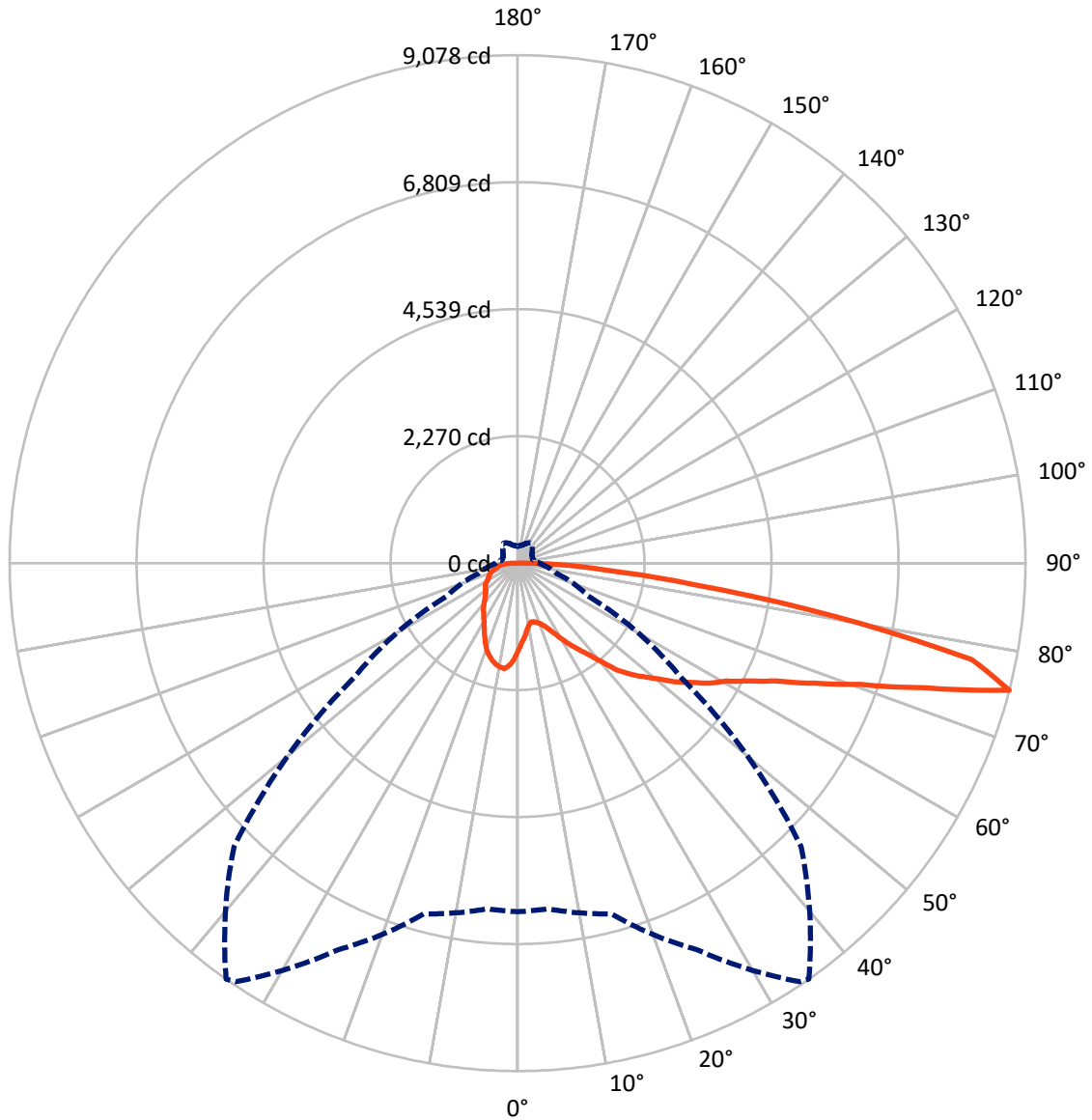
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2620.3	0.0	2620.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	8780.9	0.0	8780.9
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	11401.1	0.0	11401.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.8	1.3
10°-20°	432.0	3.8
20°-30°	716.8	6.3
30°-40°	1062.5	9.3
40°-50°	1532.0	13.4
50°-60°	2106.8	18.5
60°-70°	2602.3	22.8
70°-80°	2380.8	20.9
80°-90°	419.1	3.7
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°	11401.1	100.0
0°-180°	11401.1	100.0



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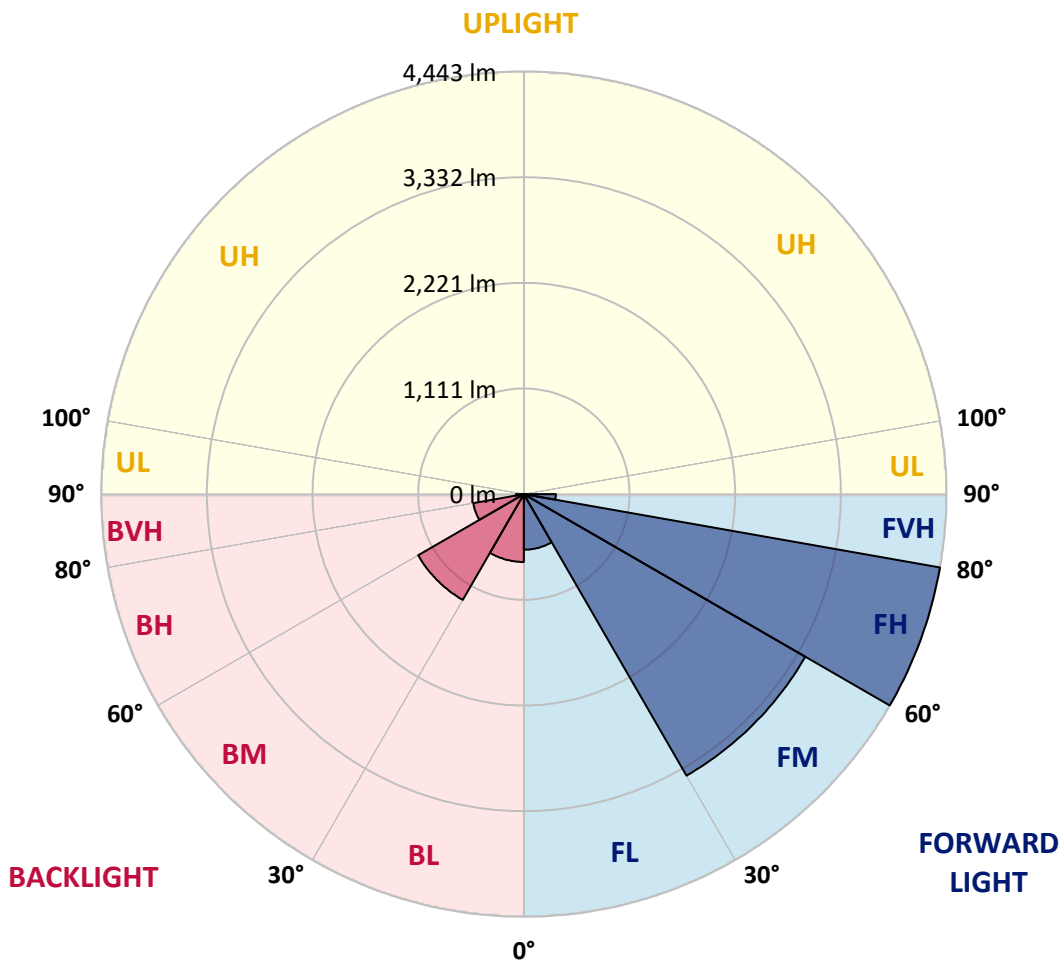
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.4	5.1			
FM (30°-60°)	3417.3	30.0			
FH (60°-80°)	4442.8	39.0			G2/5000
FVH (80°-90°)	336.4	3.0			G3/500
BL (0°-30°)	713.2	6.3	B2/1000		
BM (30°-60°)	1284.0	11.3	B2/2500		
BH (60°-80°)	540.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	82.8	0.7			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0
2.5°	1415.1	1402.5	1415.1	1423.5	1423.5	1423.5	1436.1	1473.8	1499.0	1515.8	1545.2
5°	1268.1	1272.3	1280.7	1301.7	1314.3	1322.7	1343.7	1389.9	1427.7	1482.2	1545.2
7.5°	1137.9	1146.3	1158.9	1179.9	1209.3	1205.1	1251.3	1314.3	1385.7	1457.0	1549.4
10°	1070.7	1087.5	1091.7	1095.9	1125.3	1125.3	1188.3	1259.7	1347.9	1440.3	1549.4
12.5°	1083.3	1083.3	1070.7	1066.5	1083.3	1079.1	1133.7	1217.7	1314.3	1444.5	1566.2
15°	1121.1	1121.1	1095.9	1070.7	1095.9	1087.5	1133.7	1200.9	1314.3	1448.7	1599.8
17.5°	1171.5	1175.7	1146.3	1104.3	1112.7	1116.9	1150.5	1213.5	1314.3	1457.0	1646.0
20°	1272.3	1251.3	1205.1	1137.9	1167.3	1154.7	1205.1	1259.7	1339.5	1490.6	1713.2
22.5°	1360.5	1360.5	1272.3	1213.5	1217.7	1217.7	1263.9	1310.1	1377.3	1536.8	1763.6
25°	1503.2	1494.8	1385.7	1297.5	1305.9	1310.1	1335.3	1389.9	1440.3	1562.0	1826.6
27.5°	1683.8	1662.8	1553.6	1452.8	1419.3	1431.9	1444.5	1486.4	1499.0	1604.0	1902.1
30°	1876.9	1847.6	1755.2	1595.6	1578.8	1583.0	1562.0	1587.2	1570.4	1671.2	1977.7
32.5°	1998.7	1998.7	1910.5	1793.0	1746.8	1746.8	1675.4	1692.2	1692.2	1734.2	2112.1
35°	2103.7	2095.3	2036.5	1948.3	1918.9	1902.1	1830.8	1856.0	1814.0	1856.0	2301.0
37.5°	2263.3	2238.1	2212.9	2154.1	2095.3	2082.7	2044.9	2061.7	2002.9	1981.9	2515.2
40°	2448.0	2435.4	2410.2	2385.0	2326.2	2322.0	2280.0	2296.8	2233.9	2154.1	2729.3
42.5°	2720.9	2683.2	2603.4	2582.4	2595.0	2611.8	2595.0	2565.6	2452.2	2351.4	2960.3
45°	2993.9	2935.1	2783.9	2750.3	2846.9	2834.3	2905.7	2893.1	2708.3	2548.8	3203.8
47.5°	3170.2	3119.8	2998.1	2977.1	3019.1	3035.9	3250.0	3212.2	2918.3	2729.3	3439.0
50°	3296.2	3300.4	3140.8	3195.4	3250.0	3250.0	3518.7	3514.6	3174.4	2951.9	3745.5
52.5°	3481.0	3422.2	3355.0	3405.4	3481.0	3522.9	3854.7	3762.3	3334.0	3140.8	4089.8
55°	3577.5	3552.3	3493.6	3581.7	3741.3	3762.3	4115.0	4043.6	3514.6	3363.4	4442.5
57.5°	3615.3	3636.3	3732.9	3770.7	3993.2	4047.8	4350.1	4249.4	3682.5	3640.5	4715.5
60°	3783.3	3753.9	3884.1	4035.2	4249.4	4278.8	4644.1	4425.7	3846.3	3821.1	4803.6
62.5°	4123.4	4047.8	4119.2	4299.8	4597.9	4635.7	4954.8	4660.9	3917.7	3942.8	4799.4
65°	4618.9	4564.3	4459.3	4602.1	5022.0	5076.6	5320.1	4862.4	3896.7	3900.9	4459.3
67.5°	5202.5	5114.4	5005.2	5093.4	5605.6	5731.6	5765.2	4950.6	3749.7	3665.7	3627.9
70°	5714.8	5656.0	5584.7	5735.8	6449.6	6495.8	6319.5	4896.0	3342.4	2943.5	2418.6
72.5°	6193.5	6164.1	6206.1	6773.0	7591.8	7621.2	6840.1	4551.7	2641.2	1784.6	1125.3
75°	6231.3	6201.9	6491.6	7629.6	9023.6	9078.2	7163.5	3569.1	1394.1	726.4	474.5
77.5°	4220.0	4308.2	4849.8	6680.6	8288.8	8301.4	5857.6	1658.6	575.3	428.3	331.7
80°	1037.1	1150.5	1826.6	3455.8	5588.8	5727.4	3208.0	558.5	377.9	327.5	247.7
82.5°	377.9	411.5	743.2	1562.0	3140.8	3195.4	1121.1	302.3	272.9	251.9	180.6
85°	180.6	184.8	352.7	768.4	1587.2	1570.4	403.1	180.6	197.4	172.2	109.2
87.5°	75.6	75.6	155.4	356.9	701.2	680.2	130.2	84.0	113.4	100.8	54.6
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°	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0	1562.0
2.5°	1566.2	1574.6	1608.2	1633.4	1658.6	1679.6	1713.2	1713.2	1734.2	1734.2	1734.2
5°	1562.0	1608.2	1662.8	1721.6	1759.4	1797.2	1830.8	1835.0	1847.6	1864.3	1868.5
7.5°	1578.8	1625.0	1713.2	1797.2	1843.4	1860.2	1902.1	1889.5	1889.5	1889.5	1902.1
10°	1612.4	1662.8	1784.6	1860.2	1893.7	1897.9	1885.3	1876.9	1851.8	1843.4	1830.8
12.5°	1637.6	1725.8	1847.6	1906.3	1893.7	1881.1	1851.8	1809.8	1780.4	1772.0	1772.0
15°	1700.6	1788.8	1902.1	1923.1	1902.1	1835.0	1797.2	1751.0	1725.8	1688.0	1704.8
17.5°	1755.2	1856.0	1956.7	1931.5	1889.5	1784.6	1730.0	1662.8	1629.2	1587.2	1587.2
20°	1826.6	1918.9	2007.1	1939.9	1847.6	1734.2	1646.0	1562.0	1515.8	1473.8	1482.2
22.5°	1906.3	1990.3	2036.5	1906.3	1784.6	1654.4	1532.6	1452.8	1394.1	1368.9	1377.3
25°	1969.3	2061.7	2053.3	1851.8	1709.0	1553.6	1419.3	1343.7	1331.1	1305.9	1305.9
27.5°	2049.1	2145.7	2040.7	1784.6	1583.0	1394.1	1310.1	1280.7	1280.7	1268.1	1276.5
30°	2154.1	2221.3	2011.3	1688.0	1423.5	1251.3	1209.3	1226.1	1255.5	1242.9	1247.1
32.5°	2326.2	2317.8	1986.1	1578.8	1255.5	1112.7	1142.1	1175.7	1200.9	1213.5	1221.9
35°	2494.2	2439.6	1956.7	1431.9	1100.1	1045.5	1070.7	1108.5	1154.7	1167.3	1171.5
37.5°	2662.2	2565.6	1906.3	1251.3	1003.6	986.8	1012.0	1033.0	1070.7	1079.1	1087.5
40°	2838.5	2649.6	1818.2	1074.9	923.8	923.8	940.6	944.8	965.8	978.4	986.8
42.5°	2993.9	2729.3	1658.6	911.2	839.8	869.2	873.4	865.0	848.2	856.6	860.8
45°	3182.8	2817.5	1473.8	793.6	776.8	814.6	823.0	789.4	760.0	743.2	734.8
47.5°	3367.6	2909.9	1314.3	697.0	718.0	776.8	776.8	739.0	688.6	646.6	629.8
50°	3535.5	3002.3	1184.1	638.2	659.2	747.4	755.8	684.4	629.8	579.5	571.1
52.5°	3816.9	3157.6	1049.7	592.1	625.6	726.4	722.2	659.2	587.9	533.3	529.1
55°	4064.6	3313.0	873.4	545.9	592.1	697.0	709.6	634.0	537.5	487.1	478.7
57.5°	4245.2	3350.8	697.0	499.7	558.5	663.4	680.2	583.7	503.9	461.9	457.7
60°	4278.8	3203.8	566.9	461.9	512.3	617.3	629.8	554.3	478.7	445.1	436.7
62.5°	4123.4	2922.5	482.9	428.3	474.5	571.1	596.3	520.7	453.5	424.1	419.9
65°	3770.7	2511.0	424.1	398.9	449.3	537.5	566.9	495.5	432.5	407.3	403.1
67.5°	2985.5	1927.3	377.9	377.9	415.7	503.9	545.9	478.7	411.5	394.7	390.5
70°	1952.5	1158.9	344.3	348.5	390.5	474.5	520.7	457.7	386.3	382.1	373.7
72.5°	839.8	533.3	306.5	319.1	352.7	424.1	482.9	428.3	356.9	344.3	331.7
75°	386.3	323.3	277.1	285.5	314.9	373.7	436.7	394.7	331.7	310.7	298.1
77.5°	272.9	235.1	230.9	247.7	268.7	323.3	386.3	369.5	306.5	289.7	281.3
80°	201.6	180.6	193.2	209.9	222.5	298.1	365.3	340.1	281.3	256.1	243.5
82.5°	142.8	134.4	151.2	168.0	180.6	260.3	335.9	298.1	235.1	214.1	193.2
85°	84.0	88.2	105.0	113.4	126.0	193.2	281.3	239.3	180.6	138.6	134.4
87.5°	37.8	37.8	50.4	54.6	63.0	113.4	189.0	151.2	113.4	88.2	84.0
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)