

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: P676561

Luminaire Tested: **CCW-SA-2E-735-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676561  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-735-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

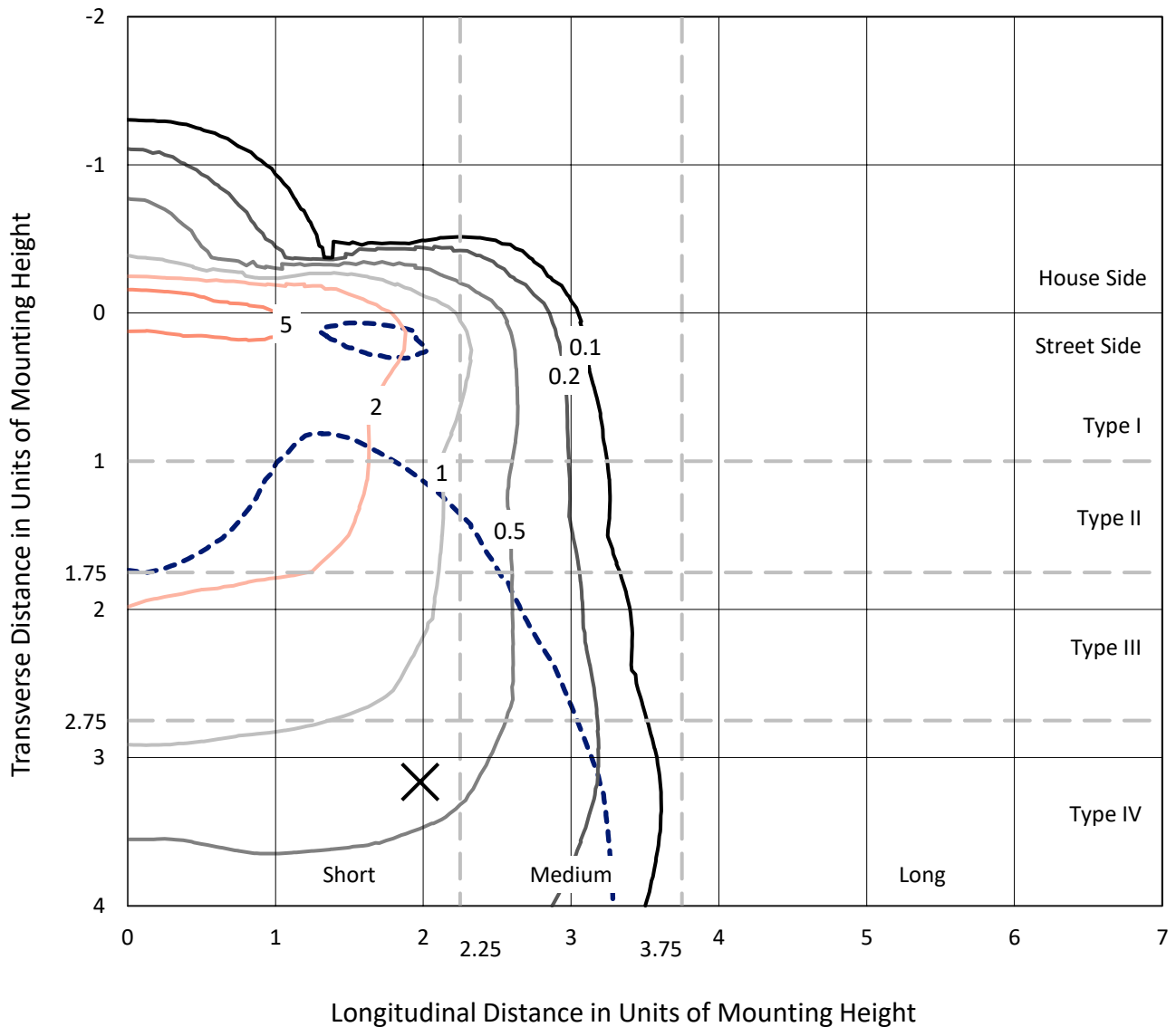
Lumens per Lamp: N/A  
Luminaire Lumens: 9683.4 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

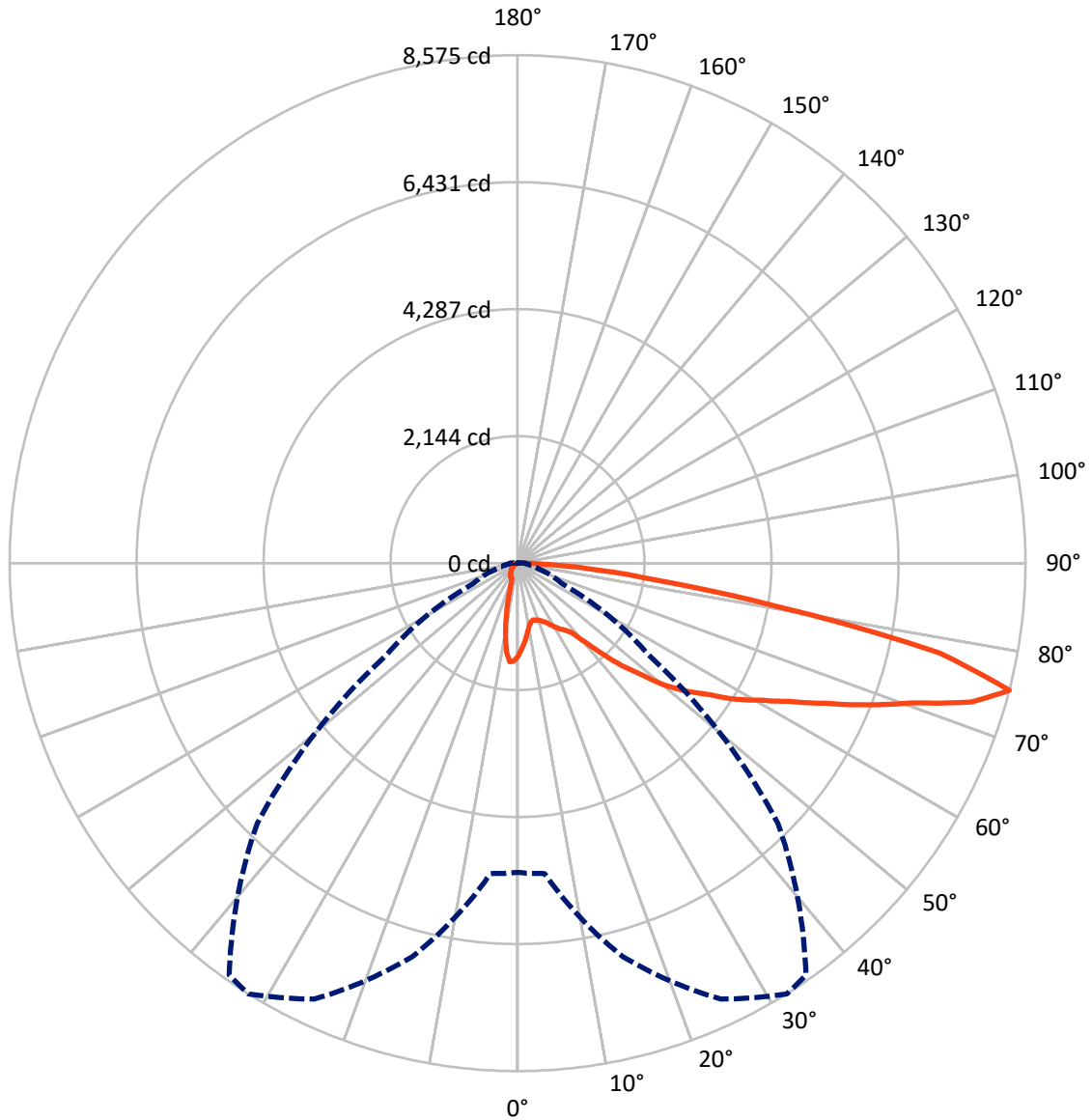
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1046.1	0.0	1046.1
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	8637.3	0.0	8637.3
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	9683.4	0.0	9683.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.4	1.4
10°-20°	311.9	3.2
20°-30°	467.1	4.8
30°-40°	717.0	7.4
40°-50°	1253.8	12.9
50°-60°	1959.8	20.2
60°-70°	2533.8	26.2
70°-80°	2063.7	21.3
80°-90°	238.9	2.5
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°	9683.4	100.0
0°-180°	9683.4	100.0



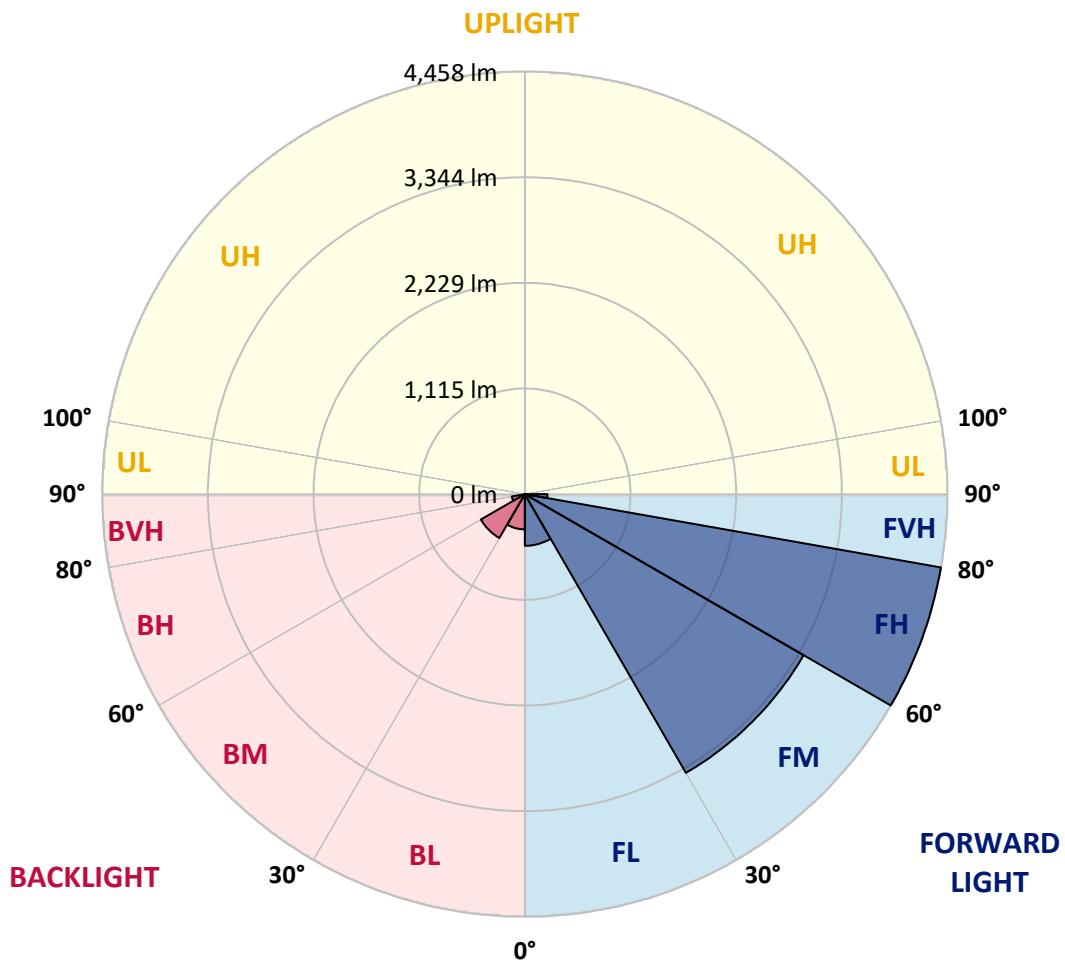
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.8	5.6			
FM (30°-60°)	3395.4	35.1			
FH (60°-80°)	4458.3	46.0			G2/5000
FVH (80°-90°)	238.7	2.5			G3/500
BL (0°-30°)	371.6	3.8	B1/500		
BM (30°-60°)	535.2	5.5	B1/1000		
BH (60°-80°)	139.1	1.4	B1/500		G1/500
BVH (80°-90°)	0.2	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1402.2	1422.1	1419.6	1432.0	1434.5	1442.0	1459.3	1459.3	1509.0	1543.7	1566.1
5°	1275.7	1263.3	1268.2	1283.1	1320.3	1317.9	1360.1	1382.4	1442.0	1491.6	1543.7
7.5°	1119.3	1116.8	1126.8	1161.5	1188.8	1211.1	1255.8	1312.9	1392.3	1466.8	1558.6
10°	1020.0	1015.1	1034.9	1044.9	1077.1	1092.0	1161.5	1250.9	1345.2	1451.9	1558.6
12.5°	997.7	980.3	990.3	987.8	1017.6	1025.0	1092.0	1201.2	1315.4	1446.9	1578.5
15°	1010.1	997.7	987.8	987.8	995.2	1000.2	1072.2	1169.0	1298.0	1454.4	1623.1
17.5°	1049.8	1042.4	1012.6	982.8	1015.1	1015.1	1059.8	1161.5	1300.5	1476.7	1677.7
20°	1097.0	1089.5	1037.4	1002.7	1025.0	1049.8	1097.0	1178.9	1307.9	1494.1	1762.1
22.5°	1149.1	1149.1	1077.1	1037.4	1067.2	1069.7	1154.1	1233.5	1337.7	1538.8	1816.7
25°	1213.6	1208.7	1139.2	1094.5	1104.4	1131.7	1208.7	1293.0	1392.3	1600.8	1918.5
27.5°	1298.0	1290.6	1208.7	1164.0	1176.4	1206.2	1293.0	1377.4	1442.0	1625.6	2005.3
30°	1367.5	1360.1	1293.0	1226.0	1253.3	1280.6	1382.4	1456.8	1504.0	1672.8	2104.6
32.5°	1382.4	1370.0	1325.3	1295.5	1325.3	1377.4	1456.8	1533.8	1605.8	1791.9	2293.2
35°	1553.6	1509.0	1392.3	1345.2	1389.8	1407.2	1538.8	1675.3	1744.7	1886.2	2504.2
37.5°	1881.2	1839.1	1685.2	1553.6	1491.6	1511.4	1682.7	1851.5	1918.5	2062.4	2735.0
40°	2283.3	2213.8	2050.0	1873.8	1747.2	1722.4	1834.1	2082.3	2146.8	2283.3	3037.8
42.5°	2742.5	2675.4	2422.3	2213.8	2084.8	2052.5	2069.9	2350.3	2404.9	2486.8	3236.3
45°	3072.5	3037.8	2752.4	2566.2	2464.5	2429.7	2387.5	2643.2	2712.7	2740.0	3524.2
47.5°	3263.6	3238.8	3080.0	2953.4	2816.9	2779.7	2807.0	3050.2	3003.0	3025.4	3799.7
50°	3519.3	3454.7	3238.8	3278.5	3251.2	3241.3	3288.5	3395.2	3325.7	3261.2	4100.0
52.5°	3725.3	3611.1	3459.7	3556.5	3598.7	3635.9	3802.2	3881.6	3571.4	3472.1	4293.6
55°	3851.8	3742.6	3782.3	3871.7	3916.4	4087.6	4283.7	4224.1	3732.7	3640.9	4551.7
57.5°	3966.0	3973.5	4080.2	4107.5	4335.8	4365.6	4742.8	4549.2	3846.9	3794.8	4653.5
60°	4241.5	4214.2	4301.1	4477.3	4695.7	4862.0	5221.8	4767.6	3904.0	3874.2	4626.2
62.5°	4737.9	4569.1	4598.9	4822.2	5142.4	5323.6	5497.3	4866.9	3889.1	3886.6	4544.3
65°	5368.3	5174.7	5085.3	5293.8	5708.3	5963.9	5807.5	4978.6	3789.8	3859.3	4239.0
67.5°	5891.9	5894.4	5728.1	5844.8	6385.8	6440.4	6100.4	4956.3	3623.5	3643.4	3494.5
70°	6495.0	6576.9	6430.5	6795.3	7065.8	7100.6	6435.5	4772.6	3266.1	2747.4	2007.8
72.5°	6648.9	6691.1	7147.7	7708.6	8013.9	8023.8	6765.5	4159.6	2149.3	1213.6	622.9
75°	5221.8	5261.5	6879.7	8120.6	8574.8	8487.9	6214.6	2700.3	836.4	354.9	148.9
77.5°	2913.7	2926.1	4271.3	6564.5	7274.3	6924.4	4353.2	1052.3	337.5	203.5	69.5
80°	796.7	935.7	1583.4	3236.3	4442.5	4360.6	2072.3	342.5	218.4	158.8	32.3
82.5°	191.1	206.0	508.8	1432.0	2347.8	2449.6	618.0	173.7	151.4	131.5	17.4
85°	69.5	76.9	156.4	697.4	1206.2	1106.9	186.1	86.9	111.7	101.8	7.4
87.5°	24.8	24.8	49.6	228.3	352.4	265.6	62.0	29.8	57.1	62.0	2.5
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°	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1568.5	1568.5	1603.3	1633.1	1643.0	1655.4	1643.0	1670.3	1667.8	1655.4	1660.4
5°	1571.0	1615.7	1645.5	1665.3	1675.3	1672.8	1677.7	1648.0	1630.6	1618.2	1605.8
7.5°	1583.4	1625.6	1680.2	1675.3	1648.0	1590.9	1546.2	1466.8	1389.8	1387.4	1374.9
10°	1625.6	1662.8	1695.1	1675.3	1576.0	1402.2	1260.8	1154.1	1057.3	1012.6	1017.6
12.5°	1655.4	1724.9	1710.0	1608.2	1402.2	1173.9	965.4	809.1	722.2	640.3	640.3
15°	1717.4	1742.3	1737.3	1511.4	1188.8	915.8	662.7	503.8	412.0	374.8	369.8
17.5°	1777.0	1804.3	1719.9	1365.0	977.9	615.5	402.1	312.7	300.3	295.3	297.8
20°	1851.5	1853.9	1705.0	1218.6	734.6	389.7	287.9	280.4	282.9	280.4	280.4
22.5°	1930.9	1948.3	1652.9	1012.6	488.9	282.9	268.0	270.5	270.5	270.5	278.0
25°	2035.1	2007.8	1571.0	816.5	320.2	260.6	260.6	263.1	263.1	263.1	265.6
27.5°	2104.6	2067.4	1466.8	588.2	250.7	245.7	250.7	250.7	255.6	255.6	255.6
30°	2248.6	2151.8	1335.2	379.7	225.8	233.3	238.3	243.2	245.7	250.7	253.1
32.5°	2360.2	2226.2	1171.4	253.1	206.0	211.0	223.4	233.3	243.2	240.7	240.7
35°	2563.8	2347.8	1020.0	201.0	188.6	188.6	201.0	218.4	233.3	238.3	238.3
37.5°	2797.1	2447.1	809.1	183.7	173.7	173.7	181.2	201.0	220.9	230.8	225.8
40°	2990.6	2561.3	598.1	171.2	161.3	161.3	166.3	181.2	203.5	220.9	223.4
42.5°	3127.1	2645.7	404.5	158.8	151.4	148.9	156.4	163.8	181.2	206.0	211.0
45°	3251.2	2690.3	250.7	146.4	141.5	141.5	141.5	148.9	161.3	183.7	188.6
47.5°	3472.1	2740.0	181.2	136.5	129.1	131.5	134.0	136.5	146.4	151.4	153.9
50°	3658.3	2777.2	148.9	126.6	121.6	124.1	124.1	124.1	129.1	121.6	121.6
52.5°	3799.7	2740.0	126.6	116.6	111.7	114.2	111.7	111.7	106.7	96.8	96.8
55°	3904.0	2673.0	101.8	106.7	106.7	106.7	101.8	94.3	84.4	76.9	76.9
57.5°	3931.3	2558.8	79.4	89.3	96.8	96.8	86.9	76.9	64.5	57.1	54.6
60°	3889.1	2310.6	59.6	64.5	74.5	76.9	69.5	57.1	44.7	37.2	37.2
62.5°	3737.7	2114.5	47.2	42.2	54.6	57.1	49.6	37.2	24.8	17.4	14.9
65°	3449.8	1811.8	34.7	29.8	37.2	39.7	32.3	17.4	7.4	2.5	0.0
67.5°	2767.3	1365.0	22.3	19.9	24.8	24.8	14.9	5.0	0.0	0.0	0.0
70°	1531.3	766.9	14.9	9.9	12.4	7.4	2.5	0.0	0.0	0.0	0.0
72.5°	441.8	218.4	7.4	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	119.1	52.1	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	52.1	19.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.3	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	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)