

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: P676539

Luminaire Tested: **CCW-SA-2E-727-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676539  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-727-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) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

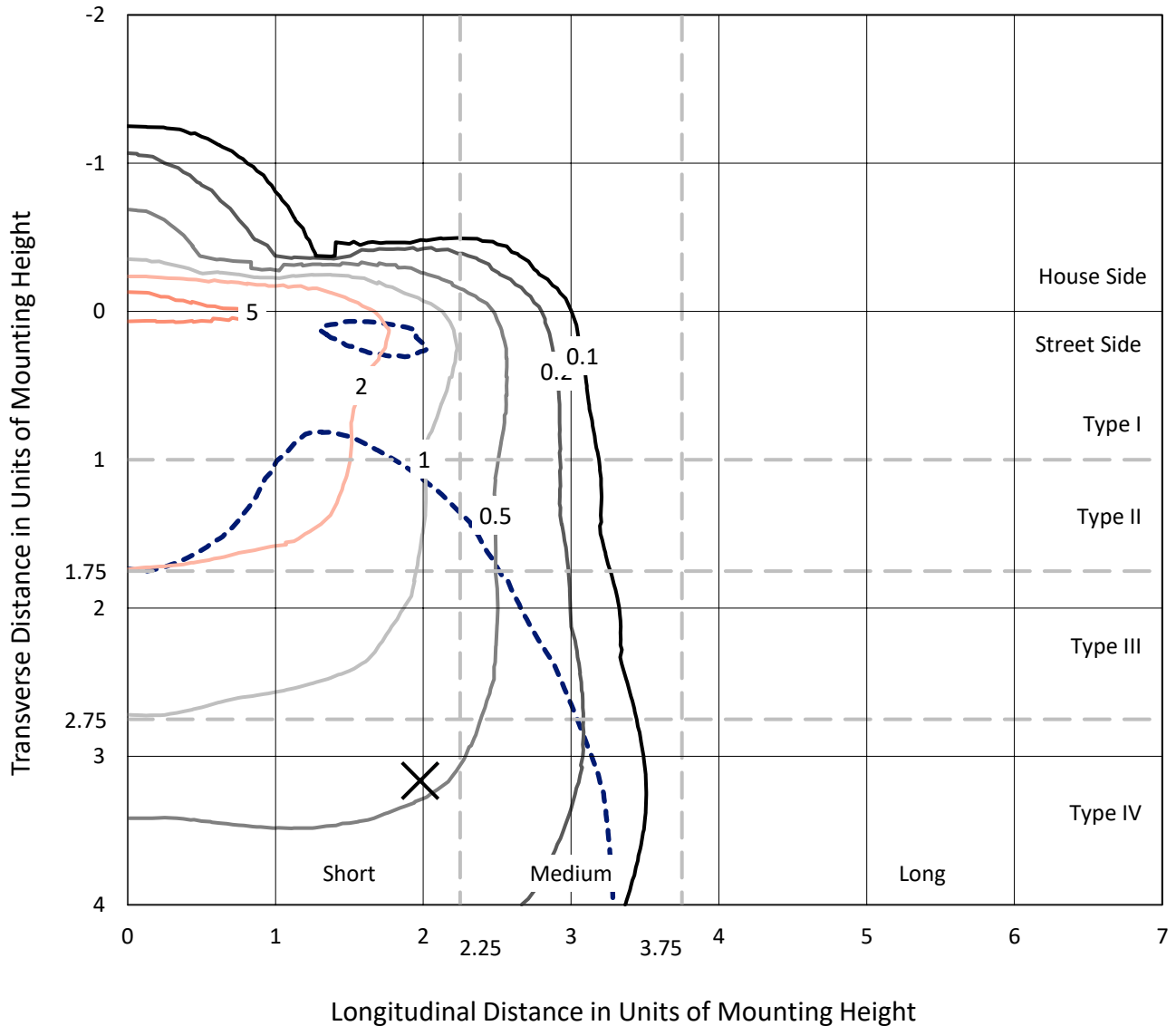
Lumens per Lamp: N/A  
Luminaire Lumens: 8210.7 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

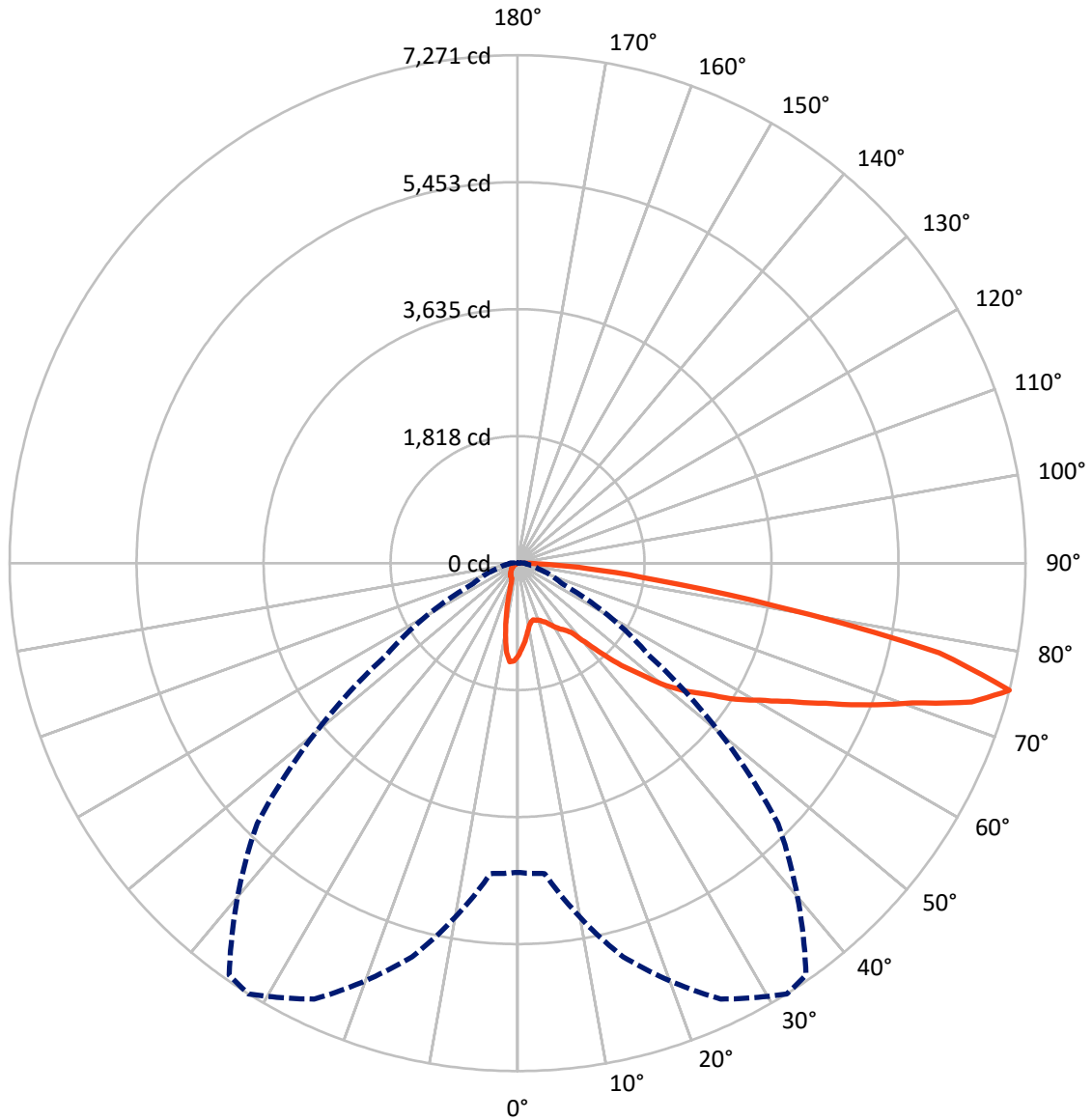
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 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	887.0	0.0	887.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	7323.7	0.0	7323.7
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	8210.7	0.0	8210.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.5	1.4
10°-20°	264.5	3.2
20°-30°	396.0	4.8
30°-40°	607.9	7.4
40°-50°	1063.1	12.9
50°-60°	1661.8	20.2
60°-70°	2148.4	26.2
70°-80°	1749.8	21.3
80°-90°	202.6	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°	8210.7	100.0
0°-180°	8210.7	100.0



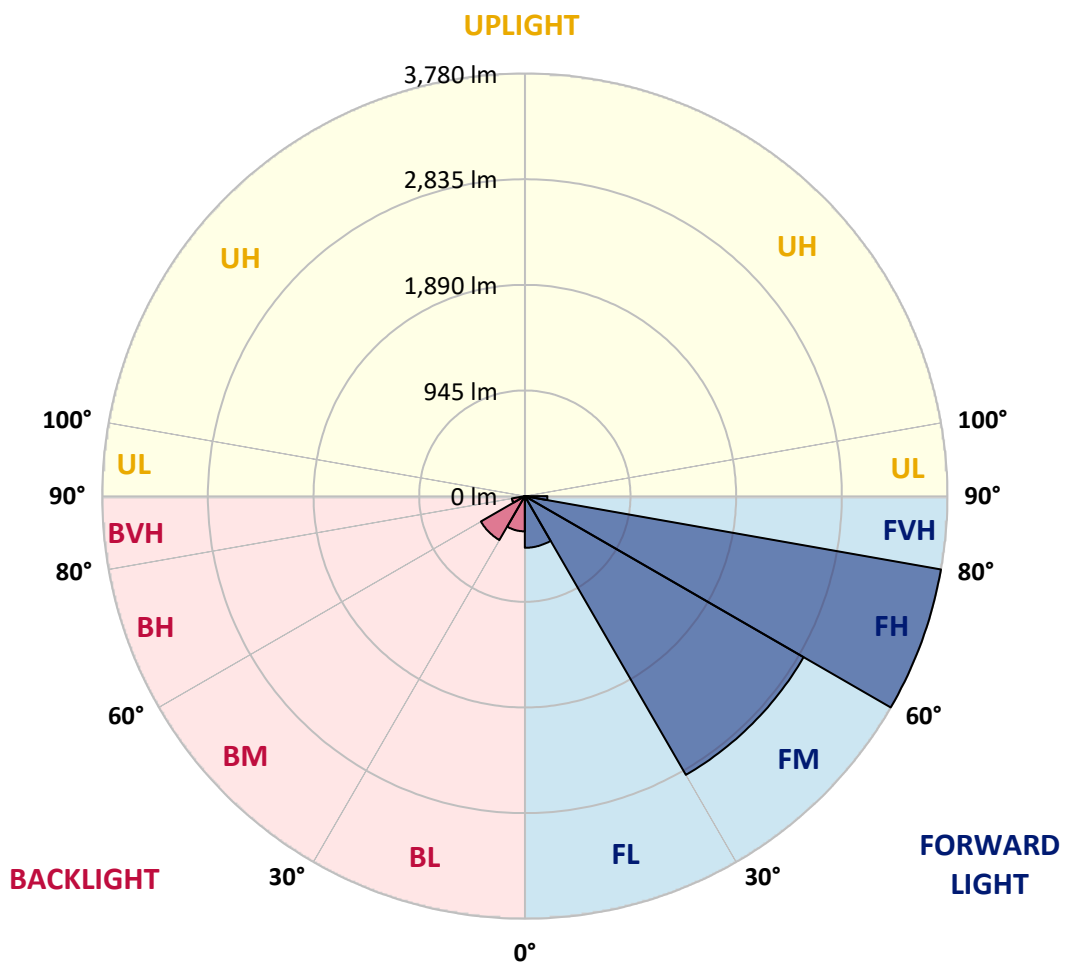
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.0	5.6			
FM (30°-60°)	2879.0	35.1			
FH (60°-80°)	3780.3	46.0			G2/5000
FVH (80°-90°)	202.4	2.5			G2/225
BL (0°-30°)	315.1	3.8	B1/500		
BM (30°-60°)	453.8	5.5	B1/1000		
BH (60°-80°)	118.0	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1189.0	1205.8	1203.7	1214.2	1216.3	1222.7	1237.4	1237.4	1279.5	1308.9	1327.9
5°	1081.7	1071.1	1075.4	1088.0	1119.5	1117.4	1153.2	1172.2	1222.7	1264.7	1308.9
7.5°	949.1	947.0	955.4	984.9	1008.0	1027.0	1064.8	1113.2	1180.6	1243.7	1321.6
10°	864.9	860.7	877.5	886.0	913.3	925.9	984.9	1060.6	1140.6	1231.1	1321.6
12.5°	846.0	831.2	839.7	837.6	862.8	869.1	925.9	1018.5	1115.3	1226.9	1338.4
15°	856.5	846.0	837.6	837.6	843.9	848.1	909.1	991.2	1100.6	1233.2	1376.3
17.5°	890.2	883.9	858.6	833.3	860.7	860.7	898.6	984.9	1102.7	1252.1	1422.6
20°	930.1	923.8	879.6	850.2	869.1	890.2	930.1	999.6	1109.0	1266.9	1494.1
22.5°	974.3	974.3	913.3	879.6	904.9	907.0	978.5	1045.9	1134.3	1304.7	1540.4
25°	1029.1	1024.8	965.9	928.0	936.5	959.6	1024.8	1096.4	1180.6	1357.3	1626.7
27.5°	1100.6	1094.3	1024.8	987.0	997.5	1022.7	1096.4	1167.9	1222.7	1378.4	1700.4
30°	1159.5	1153.2	1096.4	1039.6	1062.7	1085.9	1172.2	1235.3	1275.3	1418.4	1784.5
32.5°	1172.2	1161.6	1123.8	1098.5	1123.8	1167.9	1235.3	1300.5	1361.6	1519.4	1944.5
35°	1317.4	1279.5	1180.6	1140.6	1178.5	1193.2	1304.7	1420.5	1479.4	1599.3	2123.3
37.5°	1595.1	1559.4	1428.9	1317.4	1264.7	1281.6	1426.8	1569.9	1626.7	1748.8	2319.1
40°	1936.1	1877.1	1738.2	1588.8	1481.5	1460.5	1555.2	1765.6	1820.3	1936.1	2575.8
42.5°	2325.4	2268.5	2053.9	1877.1	1767.7	1740.3	1755.1	1992.9	2039.2	2108.6	2744.1
45°	2605.3	2575.8	2333.8	2176.0	2089.7	2060.2	2024.4	2241.2	2300.1	2323.3	2988.3
47.5°	2767.3	2746.2	2611.6	2504.2	2388.5	2356.9	2380.1	2586.3	2546.3	2565.3	3221.8
50°	2984.0	2929.3	2746.2	2779.9	2756.8	2748.4	2788.3	2878.8	2819.9	2765.2	3476.5
52.5°	3158.7	3061.9	2933.5	3015.6	3051.4	3083.0	3224.0	3291.3	3028.2	2944.1	3640.6
55°	3266.0	3173.4	3207.1	3282.9	3320.8	3466.0	3632.2	3581.7	3165.0	3087.2	3859.5
57.5°	3362.8	3369.2	3459.6	3482.8	3676.4	3701.7	4021.5	3857.4	3261.8	3217.6	3945.8
60°	3596.4	3573.3	3646.9	3796.3	3981.5	4122.5	4427.7	4042.6	3310.2	3285.0	3922.6
62.5°	4017.3	3874.2	3899.5	4088.9	4360.3	4514.0	4661.3	4126.7	3297.6	3295.5	3853.2
65°	4551.8	4387.7	4311.9	4488.7	4840.1	5056.9	4924.3	4221.4	3213.4	3272.4	3594.3
67.5°	4995.9	4998.0	4857.0	4955.9	5414.6	5460.9	5172.6	4202.5	3072.4	3089.3	2963.0
70°	5507.2	5576.7	5452.5	5761.9	5991.2	6020.7	5456.7	4046.8	2769.4	2329.6	1702.5
72.5°	5637.7	5673.5	6060.7	6536.3	6795.1	6803.5	5736.6	3527.0	1822.4	1029.1	528.2
75°	4427.7	4461.3	5833.4	6885.6	7270.7	7197.1	5269.4	2289.6	709.2	300.9	126.3
77.5°	2470.6	2481.1	3621.7	5566.2	6168.0	5871.3	3691.1	892.3	286.2	172.6	58.9
80°	675.5	793.4	1342.6	2744.1	3766.9	3697.4	1757.2	290.4	185.2	134.7	27.4
82.5°	162.0	174.7	431.4	1214.2	1990.8	2077.0	524.0	147.3	128.4	111.5	14.7
85°	58.9	65.2	132.6	591.3	1022.7	938.6	157.8	73.7	94.7	86.3	6.3
87.5°	21.0	21.0	42.1	193.6	298.8	225.2	52.6	25.3	48.4	52.6	2.1
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°	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1330.0	1330.0	1359.4	1384.7	1393.1	1403.6	1393.1	1416.3	1414.2	1403.6	1407.8
5°	1332.1	1370.0	1395.2	1412.1	1420.5	1418.4	1422.6	1397.3	1382.6	1372.1	1361.6
7.5°	1342.6	1378.4	1424.7	1420.5	1397.3	1348.9	1311.0	1243.7	1178.5	1176.4	1165.8
10°	1378.4	1410.0	1437.3	1420.5	1336.3	1189.0	1069.0	978.5	896.5	858.6	862.8
12.5°	1403.6	1462.6	1449.9	1363.7	1189.0	995.4	818.6	686.0	612.4	542.9	542.9
15°	1456.2	1477.3	1473.1	1281.6	1008.0	776.5	561.9	427.2	349.3	317.8	313.6
17.5°	1506.8	1529.9	1458.4	1157.4	829.1	521.9	340.9	265.2	254.6	250.4	252.5
20°	1569.9	1572.0	1445.7	1033.3	622.9	330.4	244.1	237.8	239.9	237.8	237.8
22.5°	1637.2	1652.0	1401.5	858.6	414.6	239.9	227.3	229.4	229.4	229.4	235.7
25°	1725.6	1702.5	1332.1	692.3	271.5	221.0	221.0	223.1	223.1	223.1	225.2
27.5°	1784.5	1753.0	1243.7	498.7	212.5	208.3	212.5	212.5	216.8	216.8	216.8
30°	1906.6	1824.5	1132.2	322.0	191.5	197.8	202.0	206.2	208.3	212.5	214.6
32.5°	2001.3	1887.7	993.3	214.6	174.7	178.9	189.4	197.8	206.2	204.1	204.1
35°	2173.9	1990.8	864.9	170.5	159.9	159.9	170.5	185.2	197.8	202.0	202.0
37.5°	2371.7	2074.9	686.0	155.7	147.3	147.3	153.6	170.5	187.3	195.7	191.5
40°	2535.8	2171.7	507.2	145.2	136.8	136.8	141.0	153.6	172.6	187.3	189.4
42.5°	2651.6	2243.3	343.0	134.7	128.4	126.3	132.6	138.9	153.6	174.7	178.9
45°	2756.8	2281.2	212.5	124.2	120.0	120.0	120.0	126.3	136.8	155.7	159.9
47.5°	2944.1	2323.3	153.6	115.7	109.4	111.5	113.6	115.7	124.2	128.4	130.5
50°	3101.9	2354.8	126.3	107.3	103.1	105.2	105.2	105.2	109.4	103.1	103.1
52.5°	3221.8	2323.3	107.3	98.9	94.7	96.8	94.7	94.7	90.5	82.1	82.1
55°	3310.2	2266.4	86.3	90.5	90.5	90.5	86.3	80.0	71.5	65.2	65.2
57.5°	3333.4	2169.6	67.3	75.8	82.1	82.1	73.7	65.2	54.7	48.4	46.3
60°	3297.6	1959.2	50.5	54.7	63.1	65.2	58.9	48.4	37.9	31.6	31.6
62.5°	3169.2	1793.0	40.0	35.8	46.3	48.4	42.1	31.6	21.0	14.7	12.6
65°	2925.1	1536.2	29.5	25.3	31.6	33.7	27.4	14.7	6.3	2.1	0.0
67.5°	2346.4	1157.4	18.9	16.8	21.0	21.0	12.6	4.2	0.0	0.0	0.0
70°	1298.4	650.3	12.6	8.4	10.5	6.3	2.1	0.0	0.0	0.0	0.0
72.5°	374.6	185.2	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	101.0	44.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	44.2	16.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)