

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: P673493

Luminaire Tested: **CCP-SA-2E-850-U-T4FT-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673493  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-850-U-T4FT-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T4FT distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

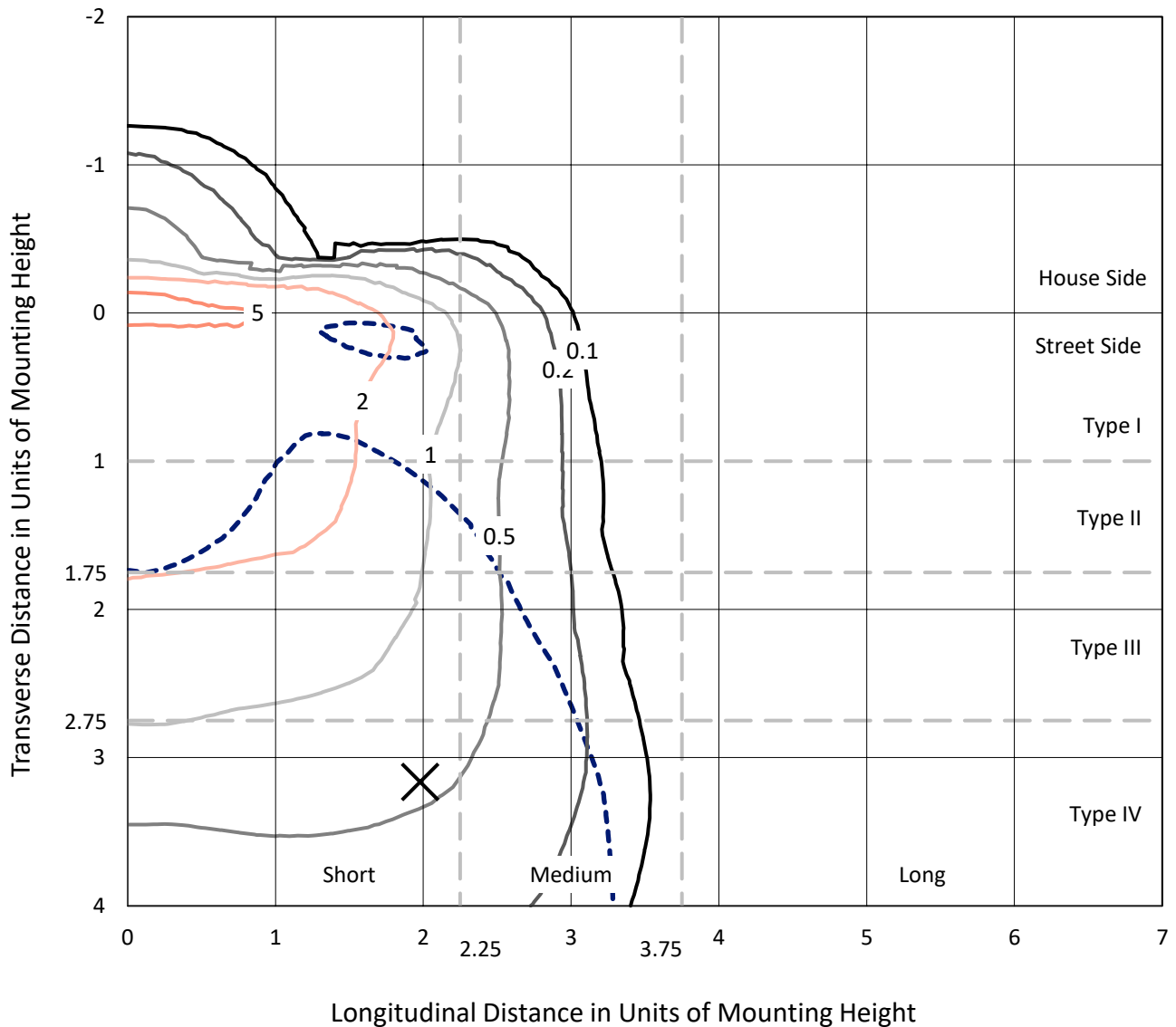
Lumens per Lamp: N/A  
Luminaire Lumens: 8567.1 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (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

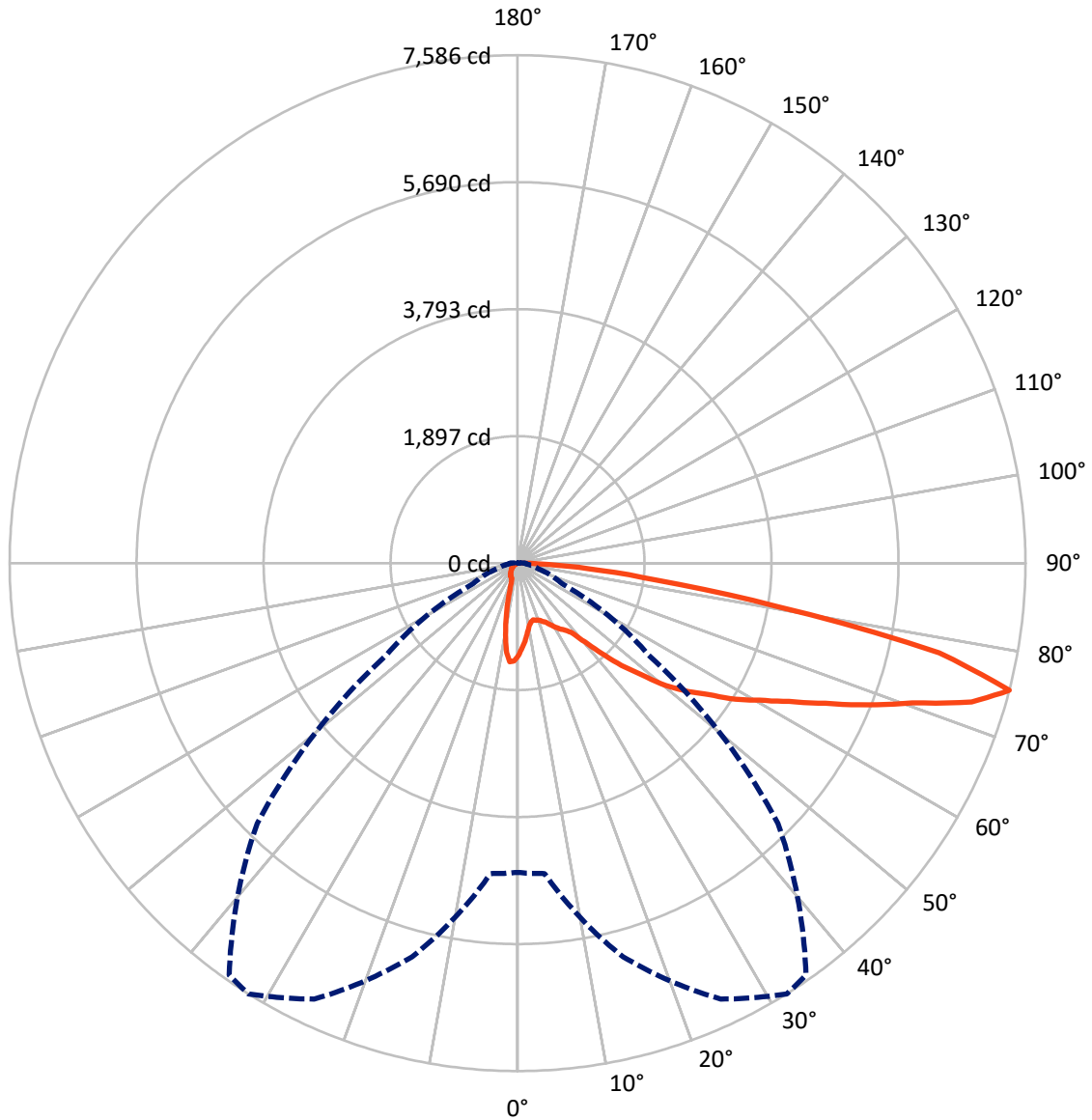
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 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	925.5	0.0	925.5
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	7641.6	0.0	7641.6
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	8567.1	0.0	8567.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.6	1.4
10°-20°	276.0	3.2
20°-30°	413.2	4.8
30°-40°	634.3	7.4
40°-50°	1109.3	12.9
50°-60°	1733.9	20.2
60°-70°	2241.7	26.2
70°-80°	1825.8	21.3
80°-90°	211.4	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°	8567.1	100.0
0°-180°	8567.1	100.0



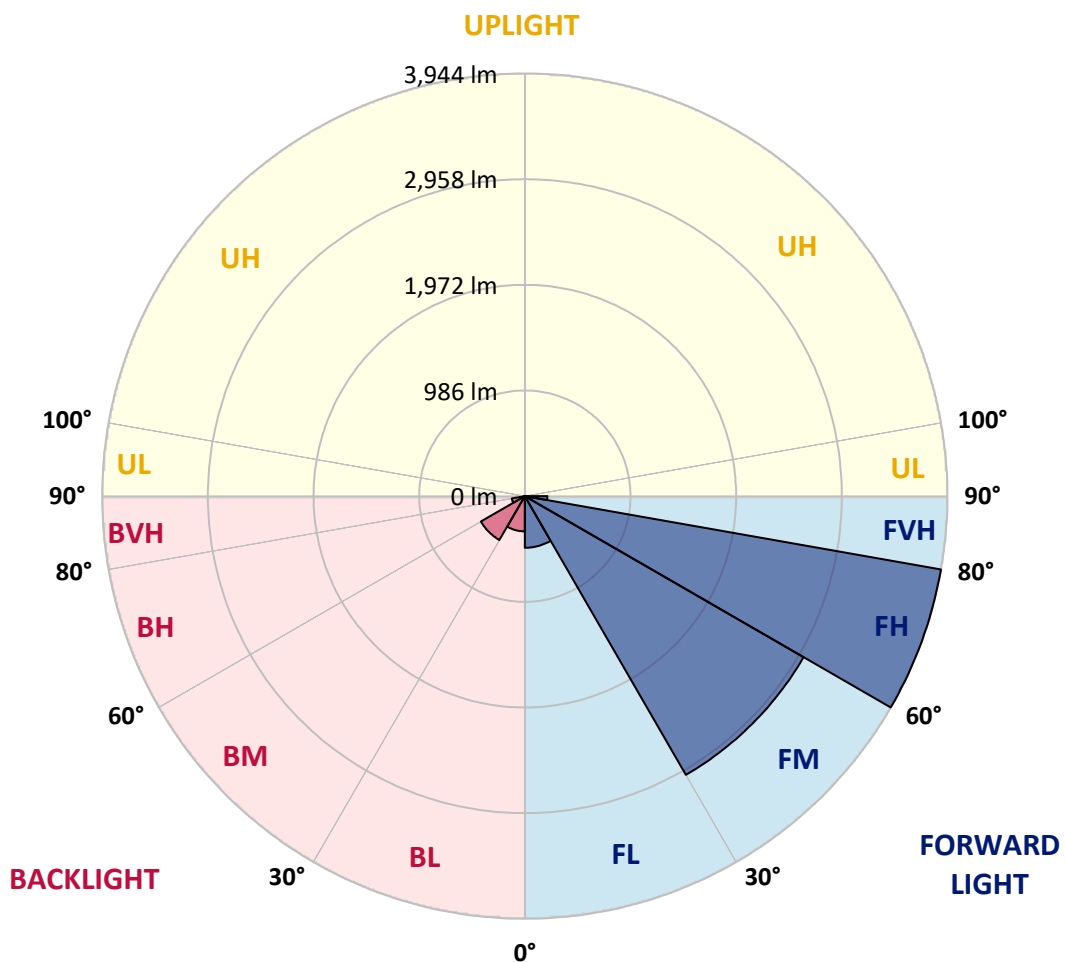
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.0	5.6			
FM (30°-60°)	3004.0	35.1			
FH (60°-80°)	3944.4	46.0			G2/5000
FVH (80°-90°)	211.2	2.5			G2/225
BL (0°-30°)	328.8	3.8	B1/500		
BM (30°-60°)	473.5	5.5	B1/1000		
BH (60°-80°)	123.1	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3
2.5°	1240.6	1258.2	1256.0	1266.9	1269.1	1275.7	1291.1	1291.1	1335.0	1365.8	1385.5
5°	1128.6	1117.6	1122.0	1135.2	1168.1	1165.9	1203.3	1223.0	1275.7	1319.6	1365.8
7.5°	990.3	988.1	996.9	1027.6	1051.8	1071.5	1111.0	1161.6	1231.8	1297.7	1378.9
10°	902.5	898.1	915.6	924.4	953.0	966.1	1027.6	1106.7	1190.1	1284.5	1378.9
12.5°	882.7	867.3	876.1	873.9	900.3	906.8	966.1	1062.7	1163.7	1280.1	1396.5
15°	893.7	882.7	873.9	873.9	880.5	884.9	948.6	1034.2	1148.4	1286.7	1436.0
17.5°	928.8	922.2	895.9	869.5	898.1	898.1	937.6	1027.6	1150.6	1306.5	1484.3
20°	970.5	963.9	917.8	887.1	906.8	928.8	970.5	1043.0	1157.2	1321.8	1559.0
22.5°	1016.6	1016.6	953.0	917.8	944.2	946.4	1021.0	1091.3	1183.5	1361.4	1607.3
25°	1073.7	1069.3	1007.8	968.3	977.1	1001.3	1069.3	1144.0	1231.8	1416.3	1697.3
27.5°	1148.4	1141.8	1069.3	1029.8	1040.8	1067.1	1144.0	1218.6	1275.7	1438.2	1774.2
30°	1209.9	1203.3	1144.0	1084.7	1108.9	1133.0	1223.0	1288.9	1330.6	1479.9	1862.0
32.5°	1223.0	1212.1	1172.5	1146.2	1172.5	1218.6	1288.9	1357.0	1420.6	1585.3	2028.9
35°	1374.5	1335.0	1231.8	1190.1	1229.6	1245.0	1361.4	1482.1	1543.6	1668.8	2215.5
37.5°	1664.4	1627.0	1490.9	1374.5	1319.6	1337.2	1488.7	1638.0	1697.3	1824.7	2419.7
40°	2020.1	1958.6	1813.7	1657.8	1545.8	1523.8	1622.7	1842.2	1899.3	2020.1	2687.6
42.5°	2426.3	2367.0	2143.1	1958.6	1844.4	1815.9	1831.3	2079.4	2127.7	2200.1	2863.3
45°	2718.3	2687.6	2435.1	2270.4	2180.4	2149.6	2112.3	2338.5	2400.0	2424.1	3118.0
47.5°	2887.4	2865.5	2724.9	2612.9	2492.2	2459.2	2483.4	2698.6	2656.9	2676.6	3361.7
50°	3113.6	3056.5	2865.5	2900.6	2876.4	2867.6	2909.4	3003.8	2942.3	2885.2	3627.4
52.5°	3295.8	3194.8	3060.9	3146.5	3183.8	3216.8	3363.9	3434.2	3159.7	3071.9	3798.6
55°	3407.8	3311.2	3346.3	3425.4	3464.9	3616.4	3789.9	3737.2	3302.4	3221.2	4027.0
57.5°	3508.8	3515.4	3609.8	3634.0	3836.0	3862.3	4196.1	4024.8	3403.4	3357.3	4117.0
60°	3752.5	3728.4	3805.2	3961.1	4154.4	4301.5	4619.9	4218.0	3453.9	3427.6	4092.9
62.5°	4191.7	4042.4	4068.7	4266.3	4549.6	4709.9	4863.6	4305.9	3440.7	3438.5	4020.4
65°	4749.4	4578.1	4499.1	4683.5	5050.2	5276.4	5138.1	4404.7	3352.9	3414.4	3750.3
67.5°	5212.7	5214.9	5067.8	5171.0	5649.7	5698.0	5397.2	4384.9	3205.8	3223.4	3091.6
70°	5746.3	5818.7	5689.2	6012.0	6251.3	6282.0	5693.6	4222.4	2889.6	2430.7	1776.4
72.5°	5882.4	5919.7	6323.8	6820.0	7090.1	7098.9	5985.6	3680.1	1901.5	1073.7	551.1
75°	4619.9	4655.0	6086.6	7184.5	7586.3	7509.5	5498.2	2389.0	740.0	314.0	131.7
77.5°	2577.8	2588.8	3778.9	5807.8	6435.7	6126.1	3851.3	931.0	298.6	180.1	61.5
80°	704.8	827.8	1400.9	2863.3	3930.4	3857.9	1833.5	303.0	193.2	140.5	28.5
82.5°	169.1	182.2	450.1	1266.9	2077.2	2167.2	546.7	153.7	133.9	116.4	15.4
85°	61.5	68.1	138.3	617.0	1067.1	979.3	164.7	76.9	98.8	90.0	6.6
87.5°	22.0	22.0	43.9	202.0	311.8	234.9	54.9	26.3	50.5	54.9	2.2
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°	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3
2.5°	1387.7	1387.7	1418.5	1444.8	1453.6	1464.6	1453.6	1477.7	1475.5	1464.6	1469.0
5°	1389.9	1429.4	1455.8	1473.3	1482.1	1479.9	1484.3	1458.0	1442.6	1431.6	1420.6
7.5°	1400.9	1438.2	1486.5	1482.1	1458.0	1407.5	1368.0	1297.7	1229.6	1227.4	1216.4
10°	1438.2	1471.2	1499.7	1482.1	1394.3	1240.6	1115.4	1021.0	935.4	895.9	900.3
12.5°	1464.6	1526.0	1512.9	1422.8	1240.6	1038.6	854.1	715.8	639.0	566.5	566.5
15°	1519.5	1541.4	1537.0	1337.2	1051.8	810.2	586.3	445.7	364.5	331.6	327.2
17.5°	1572.2	1596.3	1521.7	1207.7	865.1	544.5	355.7	276.7	265.7	261.3	263.5
20°	1638.0	1640.2	1508.5	1078.1	649.9	344.7	254.7	248.1	250.3	248.1	248.1
22.5°	1708.3	1723.7	1462.4	895.9	432.6	250.3	237.1	239.3	239.3	239.3	245.9
25°	1800.5	1776.4	1389.9	722.4	283.3	230.6	230.6	232.7	232.7	232.7	234.9
27.5°	1862.0	1829.1	1297.7	520.4	221.8	217.4	221.8	221.8	226.2	226.2	226.2
30°	1989.3	1903.7	1181.3	335.9	199.8	206.4	210.8	215.2	217.4	221.8	224.0
32.5°	2088.2	1969.6	1036.4	224.0	182.2	186.6	197.6	206.4	215.2	213.0	213.0
35°	2268.2	2077.2	902.5	177.9	166.9	166.9	177.9	193.2	206.4	210.8	210.8
37.5°	2474.6	2165.0	715.8	162.5	153.7	153.7	160.3	177.9	195.4	204.2	199.8
40°	2645.9	2266.0	529.2	151.5	142.7	142.7	147.1	160.3	180.1	195.4	197.6
42.5°	2766.6	2340.7	357.9	140.5	133.9	131.7	138.3	144.9	160.3	182.2	186.6
45°	2876.4	2380.2	221.8	129.5	125.2	125.2	125.2	131.7	142.7	162.5	166.9
47.5°	3071.9	2424.1	160.3	120.8	114.2	116.4	118.6	120.8	129.5	133.9	136.1
50°	3236.5	2457.0	131.7	112.0	107.6	109.8	109.8	109.8	114.2	107.6	107.6
52.5°	3361.7	2424.1	112.0	103.2	98.8	101.0	98.8	98.8	94.4	85.6	85.6
55°	3453.9	2364.8	90.0	94.4	94.4	94.4	90.0	83.4	74.7	68.1	68.1
57.5°	3478.1	2263.8	70.3	79.0	85.6	85.6	76.9	68.1	57.1	50.5	48.3
60°	3440.7	2044.2	52.7	57.1	65.9	68.1	61.5	50.5	39.5	32.9	32.9
62.5°	3306.8	1870.8	41.7	37.3	48.3	50.5	43.9	32.9	22.0	15.4	13.2
65°	3052.1	1602.9	30.7	26.3	32.9	35.1	28.5	15.4	6.6	2.2	0.0
67.5°	2448.3	1207.7	19.8	17.6	22.0	22.0	13.2	4.4	0.0	0.0	0.0
70°	1354.8	678.5	13.2	8.8	11.0	6.6	2.2	0.0	0.0	0.0	0.0
72.5°	390.8	193.2	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	105.4	46.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	46.1	17.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)