

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: P676538

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676538  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-727-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

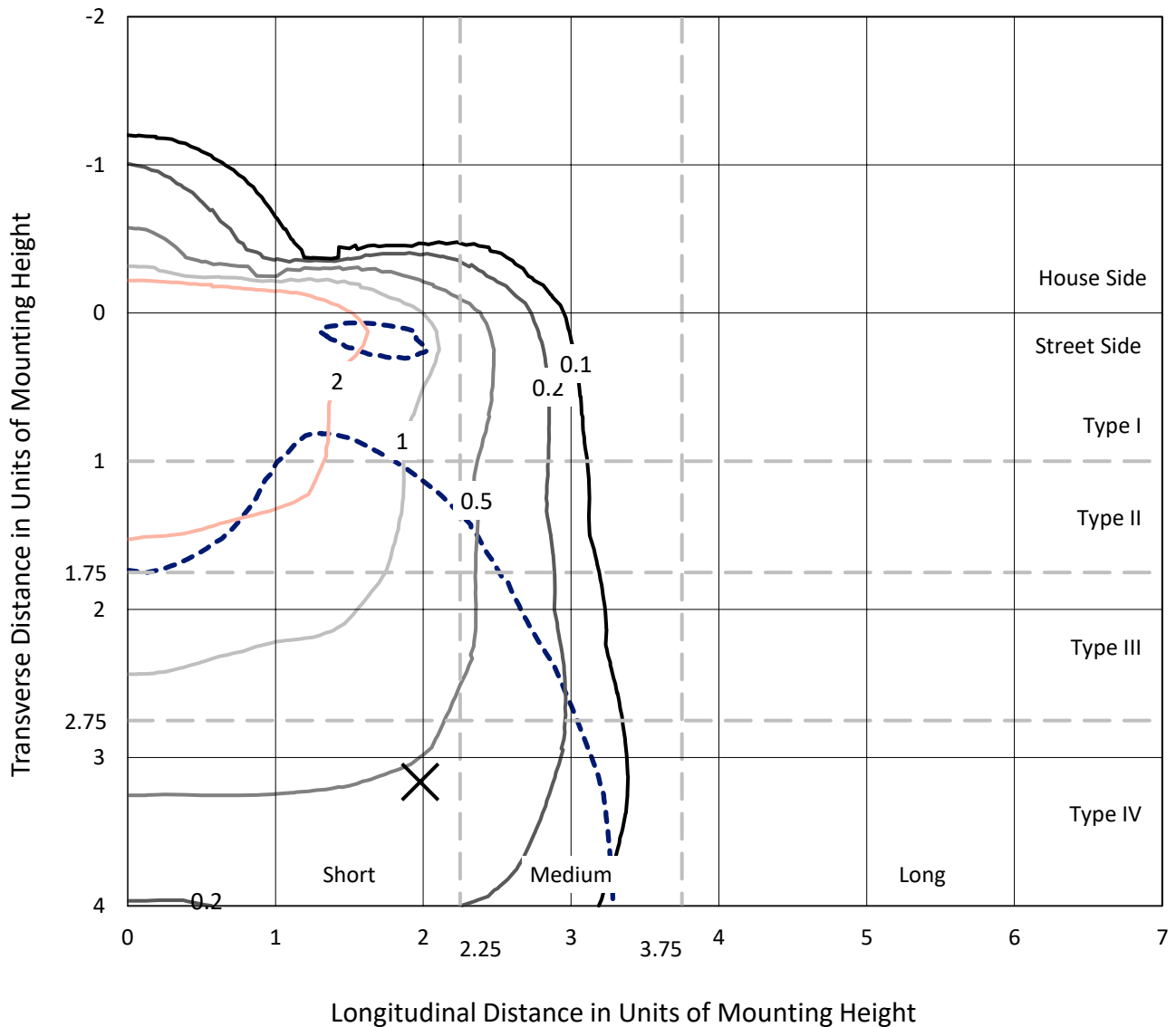
Lumens per Lamp: N/A  
Luminaire Lumens: 6697.3 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

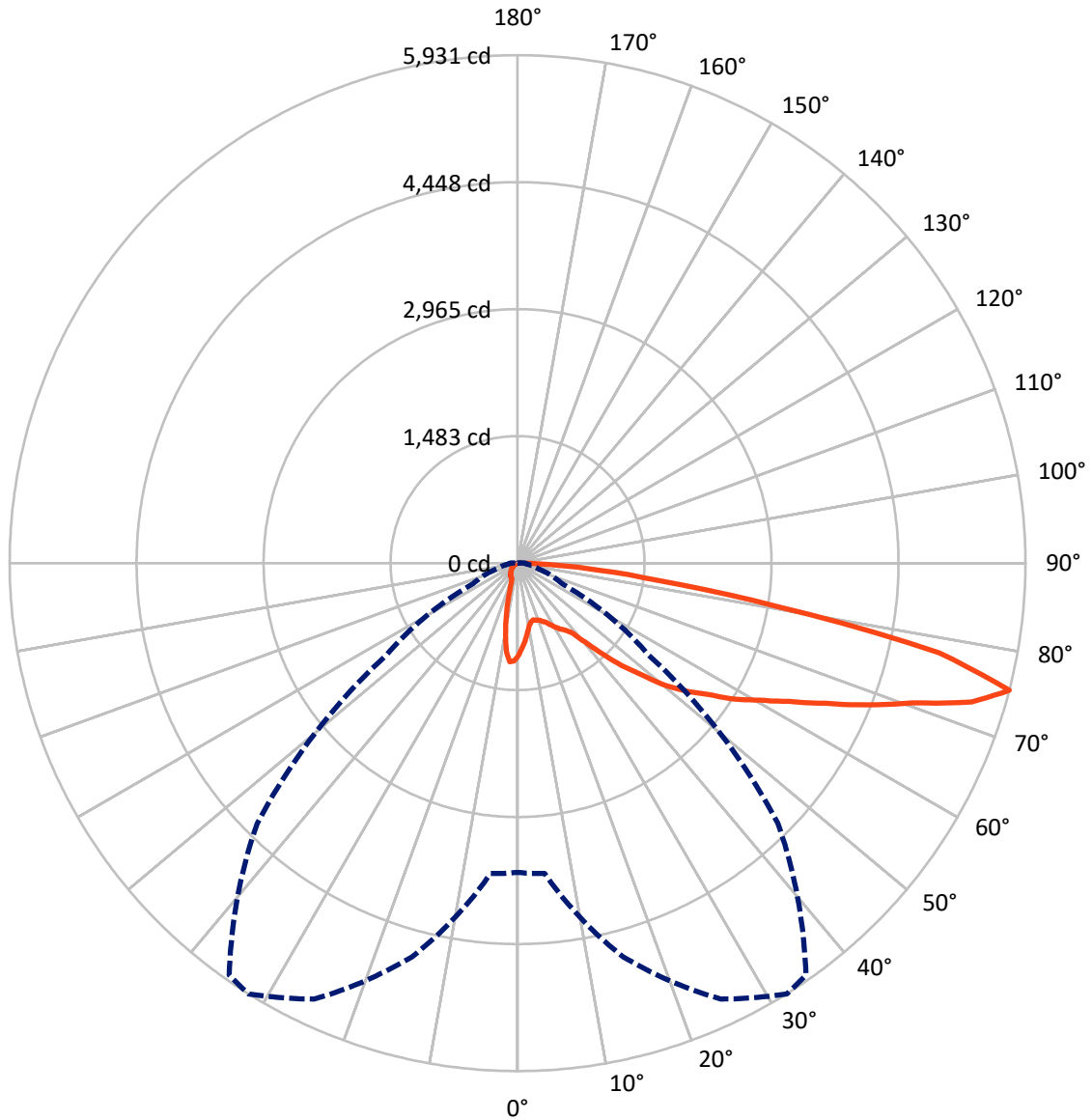
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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	723.5	0.0	723.5
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	5973.8	0.0	5973.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	6697.3	0.0	6697.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	1.4
10°-20°	215.7	3.2
20°-30°	323.0	4.8
30°-40°	495.9	7.4
40°-50°	867.2	12.9
50°-60°	1355.5	20.2
60°-70°	1752.4	26.2
70°-80°	1427.3	21.3
80°-90°	165.2	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°	6697.3	100.0
0°-180°	6697.3	100.0



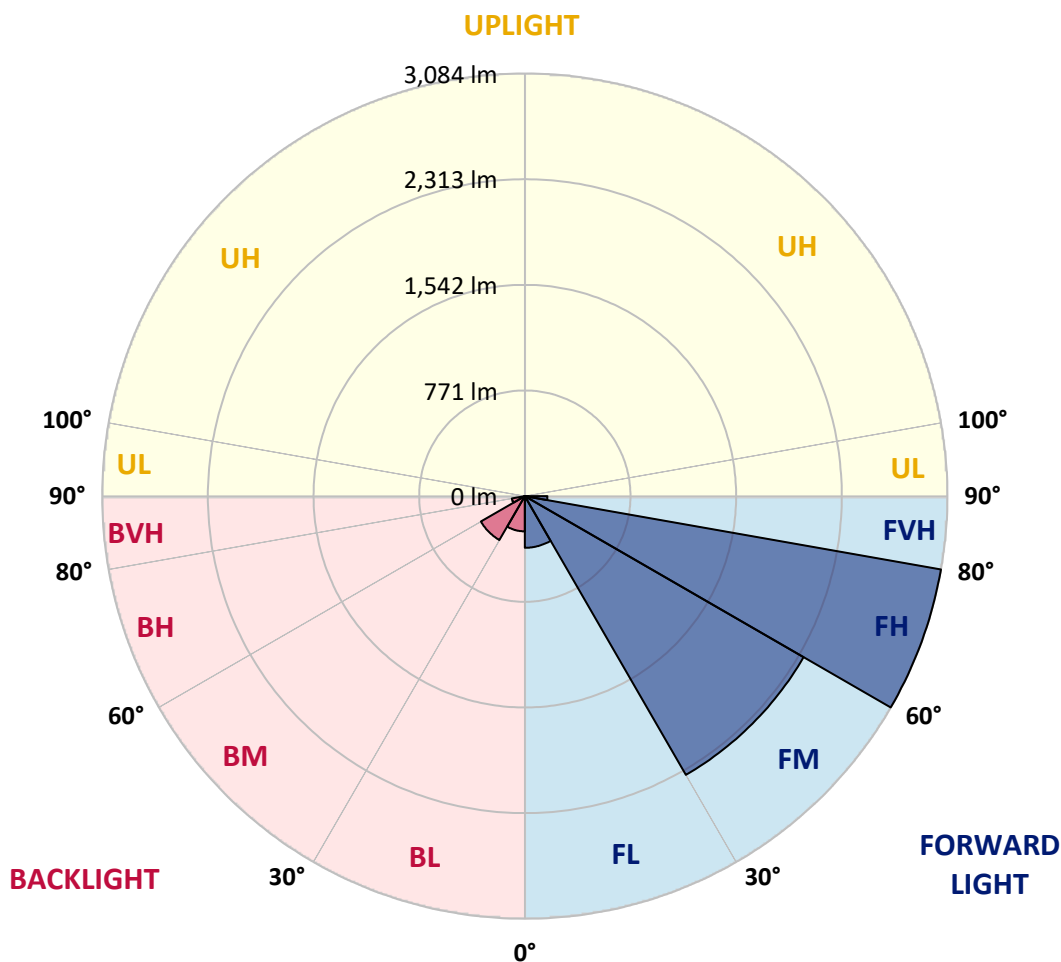
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.8	5.6			
FM (30°-60°)	2348.3	35.1			
FH (60°-80°)	3083.5	46.0			G2/5000
FVH (80°-90°)	165.1	2.5			G2/225
BL (0°-30°)	257.0	3.8	B1/500		
BM (30°-60°)	370.2	5.5	B1/1000		
BH (60°-80°)	96.2	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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°	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4
2.5°	969.8	983.6	981.8	990.4	992.1	997.3	1009.3	1009.3	1043.6	1067.7	1083.1
5°	882.3	873.7	877.1	887.4	913.2	911.5	940.6	956.1	997.3	1031.6	1067.7
7.5°	774.1	772.4	779.3	803.3	822.2	837.7	868.6	908.0	963.0	1014.5	1078.0
10°	705.5	702.1	715.8	722.7	745.0	755.3	803.3	865.1	930.3	1004.2	1078.0
12.5°	690.0	678.0	684.9	683.2	703.8	708.9	755.3	830.8	909.8	1000.7	1091.7
15°	698.6	690.0	683.2	683.2	688.3	691.8	741.5	808.5	897.7	1005.9	1122.6
17.5°	726.1	720.9	700.3	679.7	702.1	702.1	733.0	803.3	899.5	1021.3	1160.4
20°	758.7	753.5	717.5	693.5	708.9	726.1	758.7	815.3	904.6	1033.3	1218.7
22.5°	794.7	794.7	745.0	717.5	738.1	739.8	798.2	853.1	925.2	1064.2	1256.5
25°	839.4	835.9	787.9	757.0	763.8	782.7	835.9	894.3	963.0	1107.2	1326.9
27.5°	897.7	892.6	835.9	805.0	813.6	834.2	894.3	952.7	997.3	1124.3	1386.9
30°	945.8	940.6	894.3	848.0	866.8	885.7	956.1	1007.6	1040.2	1156.9	1455.6
32.5°	956.1	947.5	916.6	896.0	916.6	952.7	1007.6	1060.8	1110.6	1239.3	1586.1
35°	1074.5	1043.6	963.0	930.3	961.2	973.3	1064.2	1158.6	1206.7	1304.5	1732.0
37.5°	1301.1	1271.9	1165.5	1074.5	1031.6	1045.4	1163.8	1280.5	1326.9	1426.4	1891.6
40°	1579.2	1531.1	1417.8	1296.0	1208.4	1191.3	1268.5	1440.2	1484.8	1579.2	2101.0
42.5°	1896.7	1850.4	1675.3	1531.1	1441.9	1419.6	1431.6	1625.5	1663.3	1719.9	2238.3
45°	2125.0	2101.0	1903.6	1774.9	1704.5	1680.5	1651.3	1828.1	1876.1	1895.0	2437.4
47.5°	2257.2	2240.0	2130.2	2042.7	1948.2	1922.5	1941.4	2109.6	2077.0	2092.4	2628.0
50°	2434.0	2389.4	2240.0	2267.5	2248.6	2241.8	2274.4	2348.2	2300.1	2255.5	2835.7
52.5°	2576.5	2497.5	2392.8	2459.8	2488.9	2514.7	2629.7	2684.6	2470.1	2401.4	2969.6
55°	2664.0	2588.5	2616.0	2677.8	2708.7	2827.1	2962.7	2921.5	2581.6	2518.1	3148.1
57.5°	2743.0	2748.1	2821.9	2840.8	2998.7	3019.3	3280.3	3146.4	2660.6	2624.5	3218.5
60°	2933.5	2914.6	2974.7	3096.6	3247.6	3362.6	3611.5	3297.4	2700.1	2679.5	3199.6
62.5°	3276.8	3160.1	3180.7	3335.2	3556.6	3681.9	3802.1	3366.1	2689.8	2688.1	3142.9
65°	3712.8	3578.9	3517.1	3661.3	3948.0	4124.8	4016.6	3443.3	2621.1	2669.2	2931.8
67.5°	4075.0	4076.7	3961.7	4042.4	4416.6	4454.4	4219.2	3427.9	2506.1	2519.8	2416.8
70°	4492.1	4548.8	4447.5	4699.8	4886.9	4910.9	4450.9	3300.9	2258.9	1900.2	1388.7
72.5°	4598.5	4627.7	4943.6	5331.5	5542.6	5549.5	4679.2	2876.9	1486.5	839.4	430.8
75°	3611.5	3639.0	4758.2	5616.4	5930.6	5870.5	4298.1	1867.6	578.5	245.5	103.0
77.5°	2015.2	2023.8	2954.1	4540.2	5031.1	4789.1	3010.8	727.8	233.4	140.8	48.1
80°	551.0	647.1	1095.1	2238.3	3072.6	3015.9	1433.3	236.9	151.1	109.9	22.3
82.5°	132.2	142.5	351.9	990.4	1623.8	1694.2	427.4	120.2	104.7	91.0	12.0
85°	48.1	53.2	108.1	482.3	834.2	765.6	128.7	60.1	77.2	70.4	5.1
87.5°	17.2	17.2	34.3	157.9	243.7	183.7	42.9	20.6	39.5	42.9	1.7
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°	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4	1081.4
2.5°	1084.8	1084.8	1108.9	1129.5	1136.3	1144.9	1136.3	1155.2	1153.5	1144.9	1148.3
5°	1086.6	1117.4	1138.0	1151.8	1158.6	1156.9	1160.4	1139.8	1127.7	1119.2	1110.6
7.5°	1095.1	1124.3	1162.1	1158.6	1139.8	1100.3	1069.4	1014.5	961.2	959.5	950.9
10°	1124.3	1150.1	1172.4	1158.6	1090.0	969.8	872.0	798.2	731.2	700.3	703.8
12.5°	1144.9	1193.0	1182.7	1112.3	969.8	811.9	667.7	559.6	499.5	442.9	442.9
15°	1187.8	1205.0	1201.6	1045.4	822.2	633.4	458.3	348.5	284.9	259.2	255.8
17.5°	1229.0	1247.9	1189.5	944.1	676.3	425.7	278.1	216.3	207.7	204.3	206.0
20°	1280.5	1282.2	1179.2	842.8	508.1	269.5	199.1	194.0	195.7	194.0	194.0
22.5°	1335.4	1347.5	1143.2	700.3	338.2	195.7	185.4	187.1	187.1	187.1	192.2
25°	1407.5	1388.7	1086.6	564.7	221.4	180.2	180.2	182.0	182.0	182.0	183.7
27.5°	1455.6	1429.9	1014.5	406.8	173.4	169.9	173.4	173.4	176.8	176.8	176.8
30°	1555.2	1488.2	923.5	262.6	156.2	161.4	164.8	168.2	169.9	173.4	175.1
32.5°	1632.4	1539.7	810.2	175.1	142.5	145.9	154.5	161.4	168.2	166.5	166.5
35°	1773.2	1623.8	705.5	139.0	130.5	130.5	139.0	151.1	161.4	164.8	164.8
37.5°	1934.5	1692.5	559.6	127.0	120.2	120.2	125.3	139.0	152.8	159.6	156.2
40°	2068.4	1771.4	413.7	118.4	111.6	111.6	115.0	125.3	140.8	152.8	154.5
42.5°	2162.8	1829.8	279.8	109.9	104.7	103.0	108.1	113.3	125.3	142.5	145.9
45°	2248.6	1860.7	173.4	101.3	97.8	97.8	97.8	103.0	111.6	127.0	130.5
47.5°	2401.4	1895.0	125.3	94.4	89.3	91.0	92.7	94.4	101.3	104.7	106.4
50°	2530.1	1920.8	103.0	87.5	84.1	85.8	85.8	85.8	89.3	84.1	84.1
52.5°	2628.0	1895.0	87.5	80.7	77.2	79.0	77.2	77.2	73.8	66.9	66.9
55°	2700.1	1848.7	70.4	73.8	73.8	73.8	70.4	65.2	58.4	53.2	53.2
57.5°	2719.0	1769.7	54.9	61.8	66.9	66.9	60.1	53.2	44.6	39.5	37.8
60°	2689.8	1598.1	41.2	44.6	51.5	53.2	48.1	39.5	30.9	25.7	25.7
62.5°	2585.1	1462.5	32.6	29.2	37.8	39.5	34.3	25.7	17.2	12.0	10.3
65°	2386.0	1253.1	24.0	20.6	25.7	27.5	22.3	12.0	5.1	1.7	0.0
67.5°	1913.9	944.1	15.4	13.7	17.2	17.2	10.3	3.4	0.0	0.0	0.0
70°	1059.1	530.4	10.3	6.9	8.6	5.1	1.7	0.0	0.0	0.0	0.0
72.5°	305.5	151.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	82.4	36.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	36.0	13.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)