

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: P675204

Luminaire Tested: **CCW-SA-1F-850-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675204  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-850-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T4FT distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

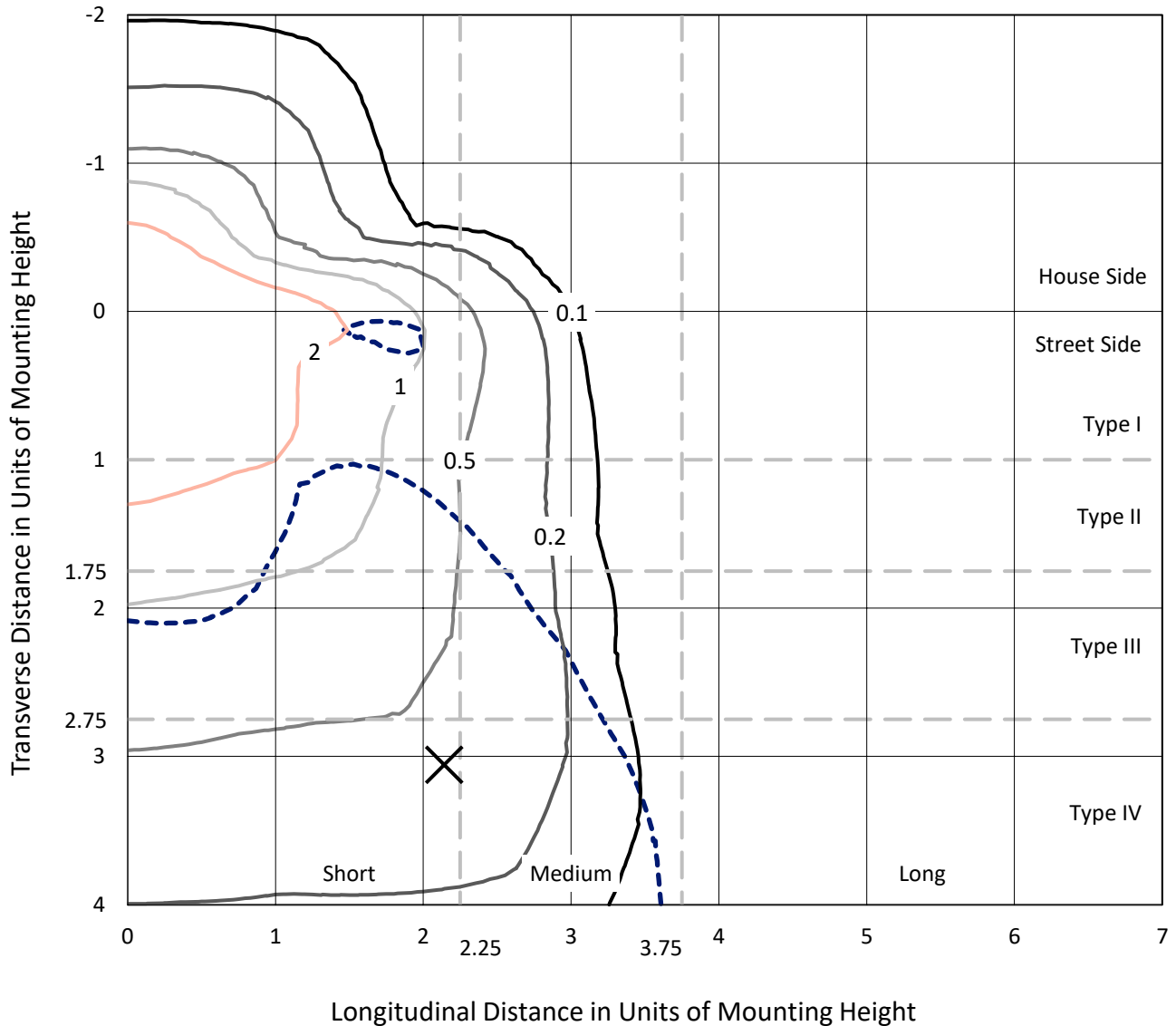
Lumens per Lamp: N/A  
Luminaire Lumens: 6538.4 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

REPORT NUMBER: P675204  
 CATALOG NUMBER: CCW-SA-1F-850-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

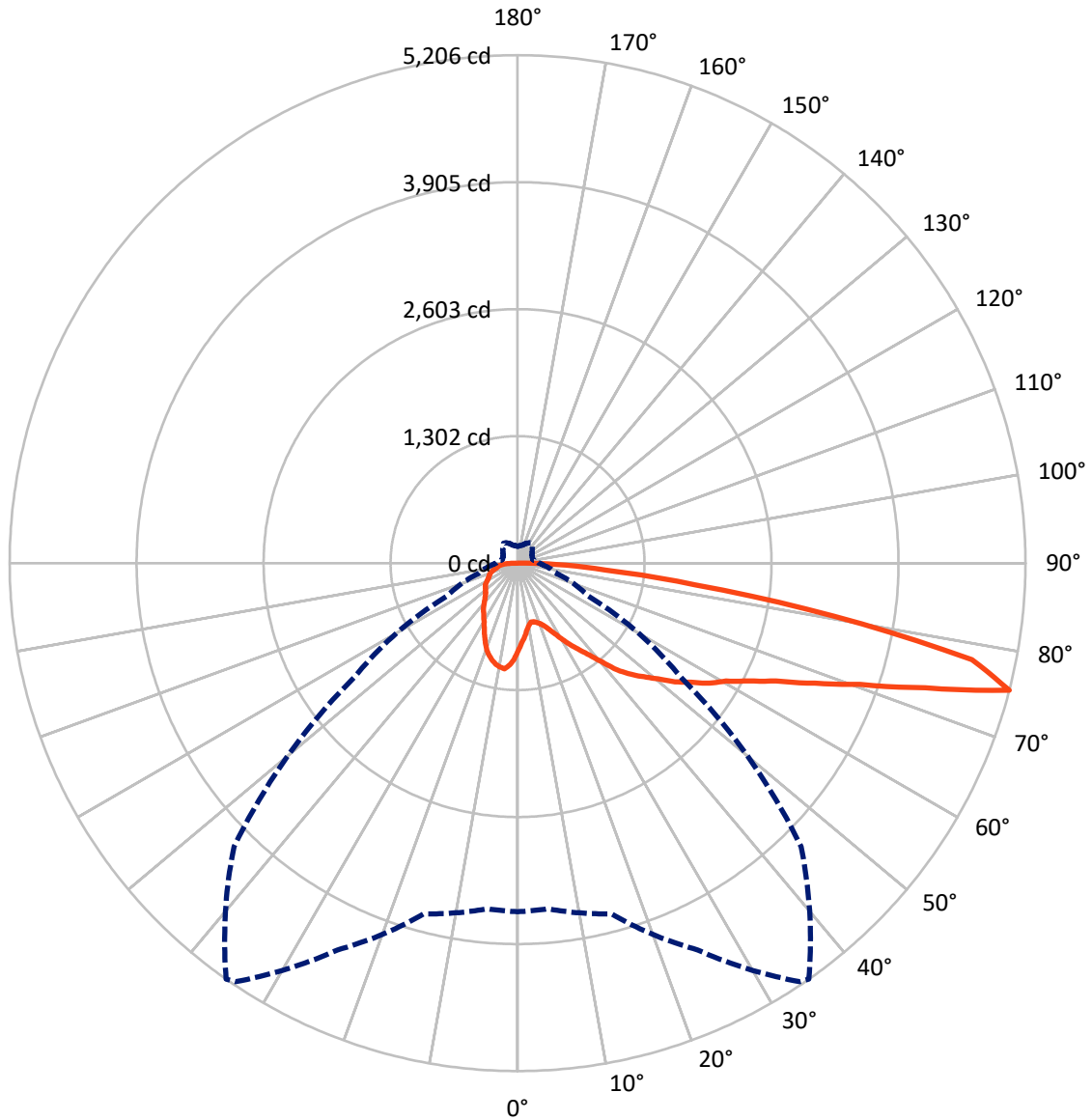
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P675204  
CATALOG NUMBER: CCW-SA-1F-850-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P675204  
 CATALOG NUMBER: CCW-SA-1F-850-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1502.7	0.0	1502.7
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	5035.7	0.0	5035.7
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	6538.4	0.0	6538.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	1.3
10°-20°	247.7	3.8
20°-30°	411.1	6.3
30°-40°	609.3	9.3
40°-50°	878.6	13.4
50°-60°	1208.2	18.5
60°-70°	1492.4	22.8
70°-80°	1365.3	20.9
80°-90°	240.4	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°	6538.4	100.0
0°-180°	6538.4	100.0



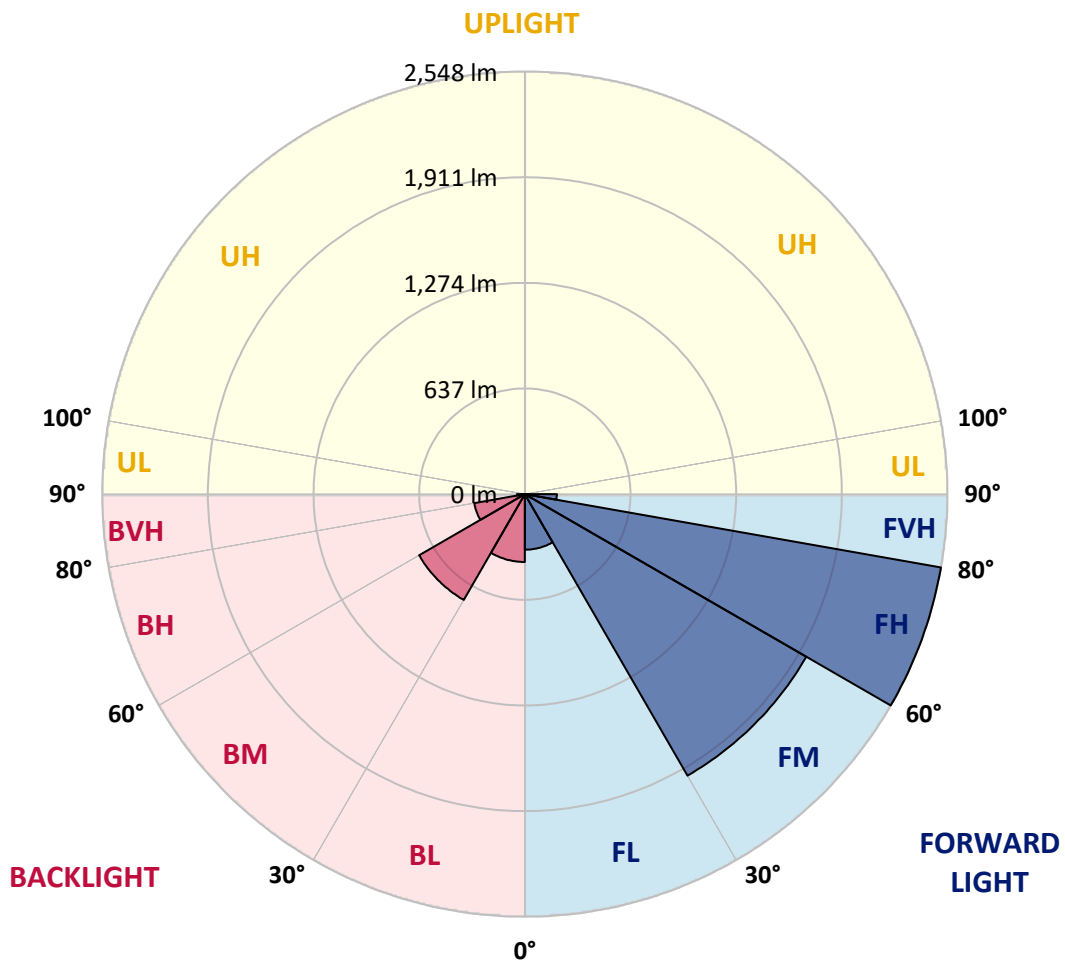
REPORT NUMBER: P675204  
 CATALOG NUMBER: CCW-SA-1F-850-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.1	5.1			
FM (30°-60°)	1959.8	30.0			
FH (60°-80°)	2547.9	39.0			G2/5000
FVH (80°-90°)	192.9	3.0			G2/225
BL (0°-30°)	409.0	6.3	B1/500		
BM (30°-60°)	736.4	11.3	B1/1000		
BH (60°-80°)	309.9	4.7	B1/500		G1/500
BVH (80°-90°)	47.5	0.7			G1/100
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





REPORT NUMBER: P675204

CATALOG NUMBER: CCW-SA-1F-850-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8
2.5°	811.5	804.3	811.5	816.3	816.3	816.3	823.6	845.2	859.7	869.3	886.2
5°	727.2	729.6	734.5	746.5	753.7	758.5	770.6	797.1	818.7	850.1	886.2
7.5°	652.6	657.4	664.6	676.7	693.5	691.1	717.6	753.7	794.7	835.6	888.6
10°	614.1	623.7	626.1	628.5	645.4	645.4	681.5	722.4	773.0	826.0	888.6
12.5°	621.3	621.3	614.1	611.7	621.3	618.9	650.2	698.3	753.7	828.4	898.2
15°	643.0	643.0	628.5	614.1	628.5	623.7	650.2	688.7	753.7	830.8	917.5
17.5°	671.9	674.3	657.4	633.3	638.1	640.5	659.8	695.9	753.7	835.6	944.0
20°	729.6	717.6	691.1	652.6	669.4	662.2	691.1	722.4	768.2	854.9	982.5
22.5°	780.2	780.2	729.6	695.9	698.3	698.3	724.8	751.3	789.8	881.4	1011.4
25°	862.1	857.3	794.7	744.1	748.9	751.3	765.8	797.1	826.0	895.8	1047.5
27.5°	965.6	953.6	891.0	833.2	813.9	821.2	828.4	852.5	859.7	919.9	1090.9
30°	1076.4	1059.6	1006.6	915.1	905.4	907.8	895.8	910.3	900.6	958.4	1134.2
32.5°	1146.2	1146.2	1095.7	1028.2	1001.8	1001.8	960.8	970.5	970.5	994.5	1211.3
35°	1206.4	1201.6	1167.9	1117.3	1100.5	1090.9	1049.9	1064.4	1040.3	1064.4	1319.6
37.5°	1298.0	1283.5	1269.1	1235.3	1201.6	1194.4	1172.7	1182.4	1148.7	1136.6	1442.4
40°	1403.9	1396.7	1382.2	1367.8	1334.1	1331.7	1307.6	1317.2	1281.1	1235.3	1565.2
42.5°	1560.4	1538.8	1493.0	1481.0	1488.2	1497.8	1488.2	1471.3	1406.3	1348.5	1697.7
45°	1717.0	1683.2	1596.6	1577.3	1632.7	1625.5	1666.4	1659.2	1553.2	1461.7	1837.4
47.5°	1818.1	1789.2	1719.4	1707.3	1731.4	1741.0	1863.8	1842.2	1673.6	1565.2	1972.2
50°	1890.3	1892.7	1801.2	1832.5	1863.8	1863.8	2018.0	2015.6	1820.5	1692.9	2148.0
52.5°	1996.3	1962.6	1924.1	1952.9	1996.3	2020.4	2210.6	2157.6	1912.0	1801.2	2345.5
55°	2051.7	2037.2	2003.5	2054.1	2145.6	2157.6	2359.9	2319.0	2015.6	1928.9	2547.7
57.5°	2073.4	2085.4	2140.8	2162.5	2290.1	2321.4	2494.8	2437.0	2111.9	2087.8	2704.3
60°	2169.7	2152.8	2227.5	2314.2	2437.0	2453.8	2663.3	2538.1	2205.8	2191.3	2754.8
62.5°	2364.7	2321.4	2362.3	2465.9	2636.8	2658.5	2841.5	2673.0	2246.7	2261.2	2752.4
65°	2648.9	2617.6	2557.4	2639.2	2880.1	2911.4	3051.0	2788.6	2234.7	2237.1	2557.4
67.5°	2983.6	2933.0	2870.4	2921.0	3214.8	3287.0	3306.3	2839.1	2150.4	2102.2	2080.6
70°	3277.4	3243.7	3202.7	3289.4	3698.8	3725.3	3624.2	2807.8	1916.8	1688.1	1387.1
72.5°	3551.9	3535.1	3559.1	3884.2	4353.8	4370.7	3922.8	2610.4	1514.7	1023.4	645.4
75°	3573.6	3556.7	3722.9	4375.5	5175.0	5206.3	4108.2	2046.9	799.5	416.6	272.1
77.5°	2420.1	2470.7	2781.3	3831.2	4753.5	4760.8	3359.3	951.2	329.9	245.6	190.2
80°	594.8	659.8	1047.5	1981.8	3205.1	3284.6	1839.8	320.3	216.7	187.8	142.1
82.5°	216.7	236.0	426.2	895.8	1801.2	1832.5	643.0	173.4	156.5	144.5	103.5
85°	103.5	106.0	202.3	440.7	910.3	900.6	231.2	103.5	113.2	98.7	62.6
87.5°	43.3	43.3	89.1	204.7	402.1	390.1	74.7	48.2	65.0	57.8	31.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675204  
 CATALOG NUMBER: CCW-SA-1F-850-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8
2.5°	898.2	903.0	922.3	936.7	951.2	963.2	982.5	982.5	994.5	994.5	994.5
5°	895.8	922.3	953.6	987.3	1009.0	1030.7	1049.9	1052.3	1059.6	1069.2	1071.6
7.5°	905.4	931.9	982.5	1030.7	1057.1	1066.8	1090.9	1083.6	1083.6	1083.6	1090.9
10°	924.7	953.6	1023.4	1066.8	1086.0	1088.4	1081.2	1076.4	1062.0	1057.1	1049.9
12.5°	939.1	989.7	1059.6	1093.3	1086.0	1078.8	1062.0	1037.9	1021.0	1016.2	1016.2
15°	975.3	1025.8	1090.9	1102.9	1090.9	1052.3	1030.7	1004.2	989.7	968.0	977.7
17.5°	1006.6	1064.4	1122.2	1107.7	1083.6	1023.4	992.1	953.6	934.3	910.3	910.3
20°	1047.5	1100.5	1151.1	1112.5	1059.6	994.5	944.0	895.8	869.3	845.2	850.1
22.5°	1093.3	1141.4	1167.9	1093.3	1023.4	948.8	878.9	833.2	799.5	785.0	789.8
25°	1129.4	1182.4	1177.5	1062.0	980.1	891.0	813.9	770.6	763.4	748.9	748.9
27.5°	1175.1	1230.5	1170.3	1023.4	907.8	799.5	751.3	734.5	734.5	727.2	732.1
30°	1235.3	1273.9	1153.5	968.0	816.3	717.6	693.5	703.2	720.0	712.8	715.2
32.5°	1334.1	1329.3	1139.0	905.4	720.0	638.1	655.0	674.3	688.7	695.9	700.7
35°	1430.4	1399.1	1122.2	821.2	630.9	599.6	614.1	635.7	662.2	669.4	671.9
37.5°	1526.7	1471.3	1093.3	717.6	575.5	565.9	580.3	592.4	614.1	618.9	623.7
40°	1627.9	1519.5	1042.7	616.5	529.8	529.8	539.4	541.8	553.9	561.1	565.9
42.5°	1717.0	1565.2	951.2	522.6	481.6	498.5	500.9	496.1	486.4	491.2	493.7
45°	1825.3	1615.8	845.2	455.1	445.5	467.2	472.0	452.7	435.9	426.2	421.4
47.5°	1931.3	1668.8	753.7	399.7	411.8	445.5	445.5	423.8	394.9	370.8	361.2
50°	2027.6	1721.8	679.1	366.0	378.1	428.6	433.5	392.5	361.2	332.3	327.5
52.5°	2188.9	1810.9	602.0	339.5	358.8	416.6	414.2	378.1	337.1	305.8	303.4
55°	2331.0	1900.0	500.9	313.0	339.5	399.7	407.0	363.6	308.2	279.3	274.5
57.5°	2434.6	1921.6	399.7	286.6	320.3	380.5	390.1	334.7	289.0	264.9	262.5
60°	2453.8	1837.4	325.1	264.9	293.8	354.0	361.2	317.9	274.5	255.3	250.4
62.5°	2364.7	1676.0	276.9	245.6	272.1	327.5	341.9	298.6	260.1	243.2	240.8
65°	2162.5	1440.0	243.2	228.8	257.7	308.2	325.1	284.2	248.0	233.6	231.2
67.5°	1712.1	1105.3	216.7	216.7	238.4	289.0	313.0	274.5	236.0	226.4	224.0
70°	1119.8	664.6	197.5	199.9	224.0	272.1	298.6	262.5	221.5	219.1	214.3
72.5°	481.6	305.8	175.8	183.0	202.3	243.2	276.9	245.6	204.7	197.5	190.2
75°	221.5	185.4	158.9	163.7	180.6	214.3	250.4	226.4	190.2	178.2	171.0
77.5°	156.5	134.9	132.4	142.1	154.1	185.4	221.5	211.9	175.8	166.2	161.3
80°	115.6	103.5	110.8	120.4	127.6	171.0	209.5	195.1	161.3	146.9	139.7
82.5°	81.9	77.1	86.7	96.3	103.5	149.3	192.6	171.0	134.9	122.8	110.8
85°	48.2	50.6	60.2	65.0	72.2	110.8	161.3	137.3	103.5	79.5	77.1
87.5°	21.7	21.7	28.9	31.3	36.1	65.0	108.4	86.7	65.0	50.6	48.2
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)