

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: P671020

Luminaire Tested: **CCP-SA-2B-835-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671020  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-835-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4FT distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

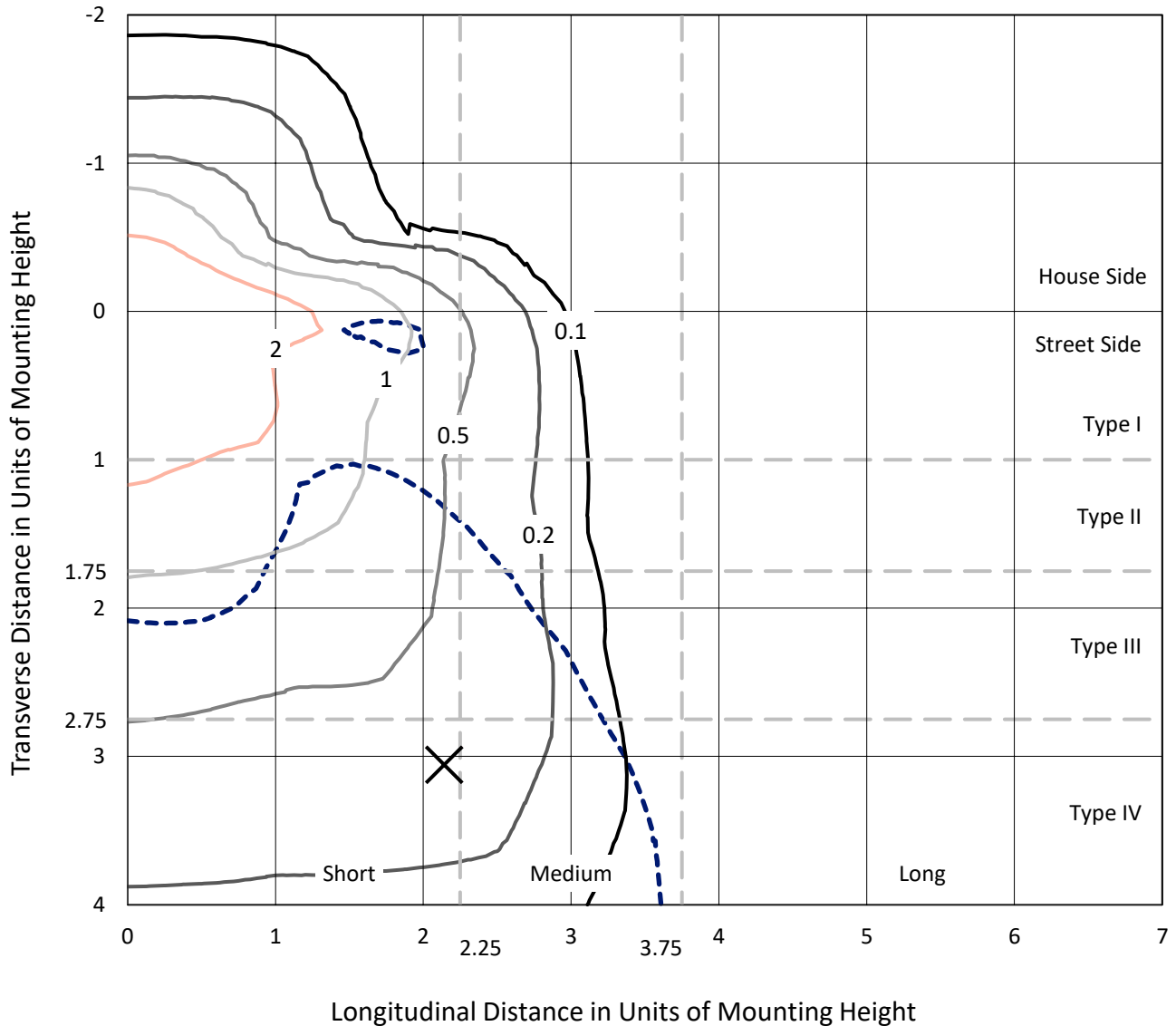
Lumens per Lamp: N/A  
Luminaire Lumens: 5687.2 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

REPORT NUMBER: P671020  
 CATALOG NUMBER: CCP-SA-2B-835-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

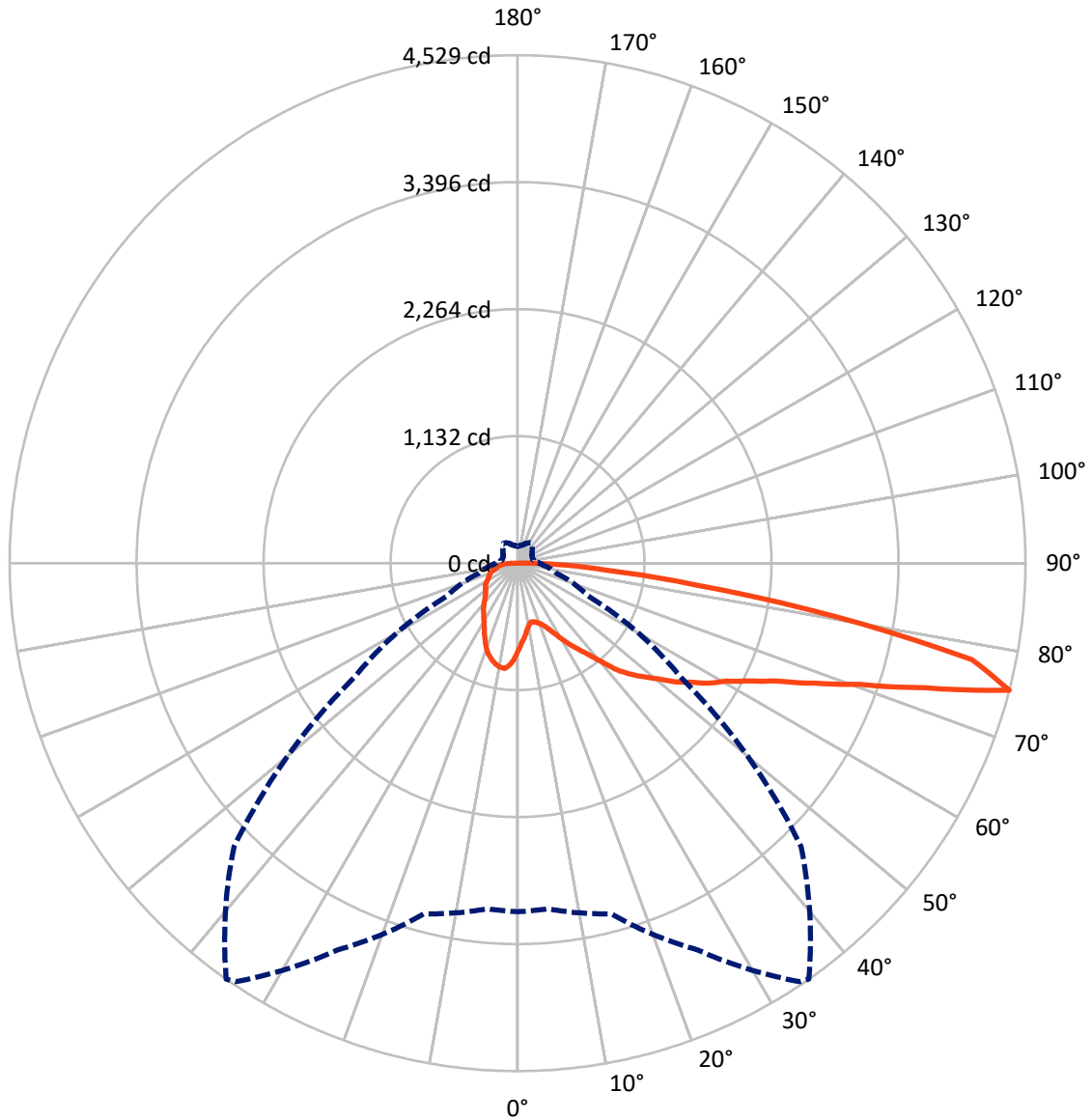
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P671020  
CATALOG NUMBER: CCP-SA-2B-835-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P671020  
 CATALOG NUMBER: CCP-SA-2B-835-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1307.1	0.0	1307.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4380.1	0.0	4380.1
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5687.2	0.0	5687.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	1.3
10°-20°	215.5	3.8
20°-30°	357.5	6.3
30°-40°	530.0	9.3
40°-50°	764.2	13.4
50°-60°	1050.9	18.5
60°-70°	1298.1	22.8
70°-80°	1187.6	20.9
80°-90°	209.1	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°	5687.2	100.0
0°-180°	5687.2	100.0



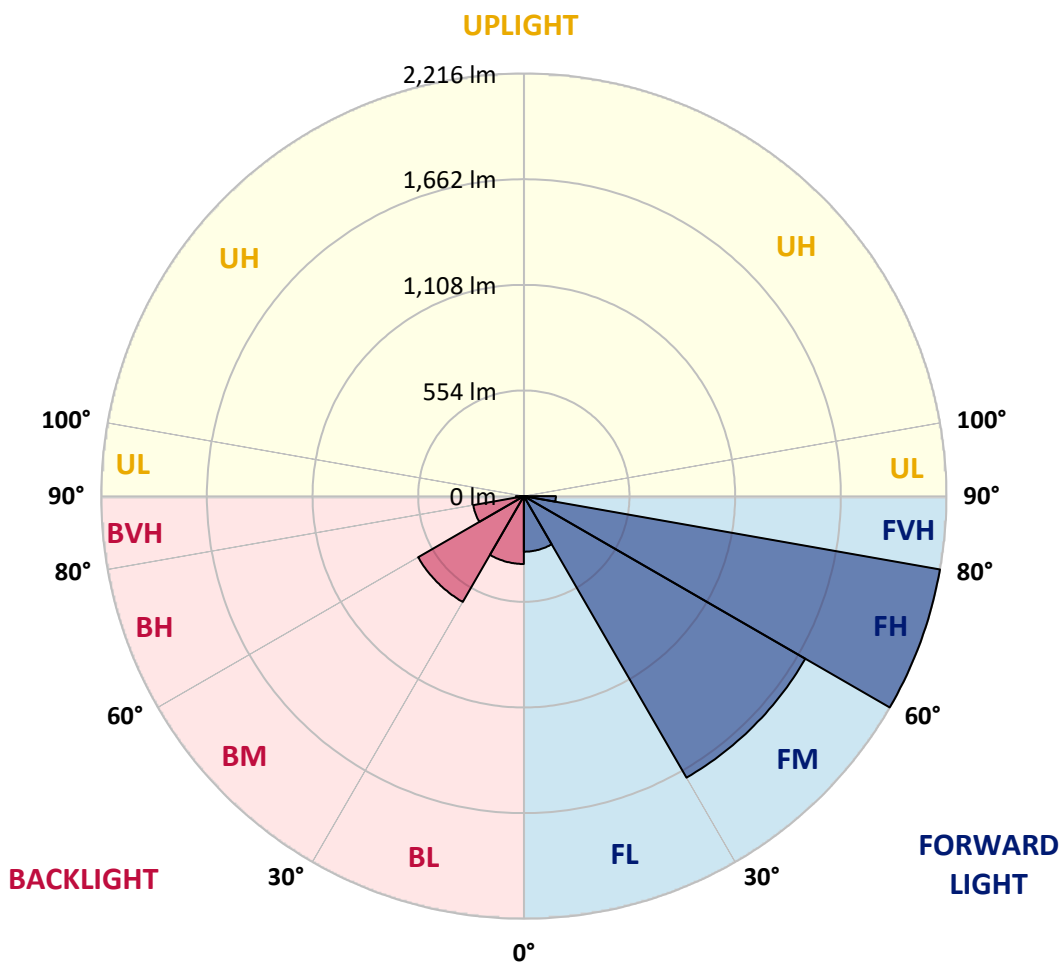
REPORT NUMBER: P671020  
 CATALOG NUMBER: CCP-SA-2B-835-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.5	5.1			
FM (30°-60°)	1704.7	30.0			
FH (60°-80°)	2216.2	39.0			G2/5000
FVH (80°-90°)	167.8	3.0			G2/225
BL (0°-30°)	355.8	6.3	B1/500		
BM (30°-60°)	640.5	11.3	B1/1000		
BH (60°-80°)	269.5	4.7	B1/500		G1/500
BVH (80°-90°)	41.3	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: P671020

CATALOG NUMBER: CCP-SA-2B-835-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2
2.5°	705.9	699.6	705.9	710.1	710.1	710.1	716.3	735.2	747.8	756.1	770.8
5°	632.6	634.7	638.8	649.3	655.6	659.8	670.3	693.3	712.2	739.4	770.8
7.5°	567.6	571.8	578.1	588.6	603.2	601.1	624.2	655.6	691.2	726.8	772.9
10°	534.1	542.5	544.6	546.7	561.3	561.3	592.8	628.4	672.4	718.4	772.9
12.5°	540.4	540.4	534.1	532.0	540.4	538.3	565.5	607.4	655.6	720.5	781.3
15°	559.2	559.2	546.7	534.1	546.7	542.5	565.5	599.0	655.6	722.6	798.0
17.5°	584.4	586.5	571.8	550.9	555.1	557.2	573.9	605.3	655.6	726.8	821.1
20°	634.7	624.2	601.1	567.6	582.3	576.0	601.1	628.4	668.2	743.6	854.6
22.5°	678.6	678.6	634.7	605.3	607.4	607.4	630.5	653.5	687.0	766.6	879.7
25°	749.9	745.7	691.2	647.2	651.4	653.5	666.1	693.3	718.4	779.2	911.1
27.5°	839.9	829.4	775.0	724.7	708.0	714.2	720.5	741.5	747.8	800.1	948.8
30°	936.3	921.6	875.5	795.9	787.6	789.7	779.2	791.7	783.4	833.6	986.5
32.5°	997.0	997.0	953.0	894.4	871.3	871.3	835.7	844.1	844.1	865.1	1053.6
35°	1049.4	1045.2	1015.9	971.9	957.2	948.8	913.2	925.8	904.9	925.8	1147.8
37.5°	1129.0	1116.4	1103.8	1074.5	1045.2	1038.9	1020.1	1028.4	999.1	988.6	1254.6
40°	1221.1	1214.8	1202.3	1189.7	1160.4	1158.3	1137.4	1145.7	1114.3	1074.5	1361.5
42.5°	1357.3	1338.4	1298.6	1288.2	1294.4	1302.8	1294.4	1279.8	1223.2	1173.0	1476.7
45°	1493.4	1464.1	1388.7	1371.9	1420.1	1413.8	1449.4	1443.2	1351.0	1271.4	1598.2
47.5°	1581.4	1556.3	1495.5	1485.0	1506.0	1514.4	1621.2	1602.3	1455.7	1361.5	1715.5
50°	1644.2	1646.3	1566.7	1594.0	1621.2	1621.2	1755.2	1753.2	1583.5	1472.5	1868.4
52.5°	1736.4	1707.1	1673.6	1698.7	1736.4	1757.3	1922.8	1876.7	1663.1	1566.7	2040.1
55°	1784.6	1772.0	1742.7	1786.7	1866.3	1876.7	2052.7	2017.1	1753.2	1677.7	2216.1
57.5°	1803.4	1813.9	1862.1	1880.9	1991.9	2019.2	2170.0	2119.7	1836.9	1816.0	2352.2
60°	1887.2	1872.5	1937.5	2012.9	2119.7	2134.4	2316.6	2207.7	1918.6	1906.1	2396.2
62.5°	2056.9	2019.2	2054.8	2144.8	2293.6	2312.4	2471.6	2325.0	1954.2	1966.8	2394.1
65°	2304.0	2276.8	2224.4	2295.6	2505.1	2532.3	2653.8	2425.5	1943.8	1945.9	2224.4
67.5°	2595.2	2551.2	2496.7	2540.7	2796.2	2859.1	2875.8	2469.5	1870.4	1828.6	1809.7
70°	2850.7	2821.4	2785.8	2861.2	3217.3	3240.3	3152.3	2442.3	1667.3	1468.3	1206.5
72.5°	3089.5	3074.8	3095.8	3378.5	3787.0	3801.6	3412.1	2270.5	1317.5	890.2	561.3
75°	3108.3	3093.7	3238.2	3805.8	4501.2	4528.5	3573.3	1780.4	695.4	362.4	236.7
77.5°	2105.0	2149.0	2419.2	3332.5	4134.7	4141.0	2921.9	827.4	287.0	213.6	165.5
80°	517.4	573.9	911.1	1723.8	2787.9	2857.0	1600.3	278.6	188.5	163.4	123.6
82.5°	188.5	205.3	370.7	779.2	1566.7	1594.0	559.2	150.8	136.1	125.7	90.1
85°	90.1	92.2	175.9	383.3	791.7	783.4	201.1	90.1	98.4	85.9	54.5
87.5°	37.7	37.7	77.5	178.0	349.8	339.3	64.9	41.9	56.6	50.3	27.2
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: P671020  
 CATALOG NUMBER: CCP-SA-2B-835-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2
2.5°	781.3	785.5	802.2	814.8	827.4	837.8	854.6	854.6	865.1	865.1	865.1
5°	779.2	802.2	829.4	858.8	877.6	896.5	913.2	915.3	921.6	930.0	932.1
7.5°	787.6	810.6	854.6	896.5	919.5	927.9	948.8	942.6	942.6	942.6	948.8
10°	804.3	829.4	890.2	927.9	944.7	946.7	940.5	936.3	923.7	919.5	913.2
12.5°	816.9	860.9	921.6	950.9	944.7	938.4	923.7	902.8	888.1	883.9	883.9
15°	848.3	892.3	948.8	959.3	948.8	915.3	896.5	873.4	860.9	842.0	850.4
17.5°	875.5	925.8	976.1	963.5	942.6	890.2	863.0	829.4	812.7	791.7	791.7
20°	911.1	957.2	1001.2	967.7	921.6	865.1	821.1	779.2	756.1	735.2	739.4
22.5°	950.9	992.8	1015.9	950.9	890.2	825.3	764.5	724.7	695.4	682.8	687.0
25°	982.4	1028.4	1024.2	923.7	852.5	775.0	708.0	670.3	664.0	651.4	651.4
27.5°	1022.1	1070.3	1018.0	890.2	789.7	695.4	653.5	638.8	638.8	632.6	636.7
30°	1074.5	1108.0	1003.3	842.0	710.1	624.2	603.2	611.6	626.3	620.0	622.1
32.5°	1160.4	1156.2	990.7	787.6	626.3	555.1	569.7	586.5	599.0	605.3	609.5
35°	1244.2	1216.9	976.1	714.2	548.8	521.5	534.1	553.0	576.0	582.3	584.4
37.5°	1328.0	1279.8	950.9	624.2	500.6	492.2	504.8	515.3	534.1	538.3	542.5
40°	1415.9	1321.7	906.9	536.2	460.8	460.8	469.2	471.3	481.8	488.0	492.2
42.5°	1493.4	1361.5	827.4	454.5	418.9	433.6	435.7	431.5	423.1	427.3	429.4
45°	1587.7	1405.5	735.2	395.9	387.5	406.3	410.5	393.8	379.1	370.7	366.5
47.5°	1679.8	1451.5	655.6	347.7	358.2	387.5	387.5	368.6	343.5	322.6	314.2
50°	1763.6	1497.6	590.7	318.4	328.8	372.8	377.0	341.4	314.2	289.1	284.9
52.5°	1904.0	1575.1	523.6	295.3	312.1	362.4	360.3	328.8	293.2	266.0	263.9
55°	2027.5	1652.6	435.7	272.3	295.3	347.7	354.0	316.3	268.1	243.0	238.8
57.5°	2117.6	1671.5	347.7	249.3	278.6	330.9	339.3	291.1	251.3	230.4	228.3
60°	2134.4	1598.2	282.8	230.4	255.5	307.9	314.2	276.5	238.8	222.0	217.8
62.5°	2056.9	1457.8	240.9	213.6	236.7	284.9	297.4	259.7	226.2	211.6	209.5
65°	1880.9	1252.6	211.6	199.0	224.1	268.1	282.8	247.2	215.7	203.2	201.1
67.5°	1489.2	961.4	188.5	188.5	207.4	251.3	272.3	238.8	205.3	196.9	194.8
70°	974.0	578.1	171.8	173.8	194.8	236.7	259.7	228.3	192.7	190.6	186.4
72.5°	418.9	266.0	152.9	159.2	175.9	211.6	240.9	213.6	178.0	171.8	165.5
75°	192.7	161.3	138.2	142.4	157.1	186.4	217.8	196.9	165.5	155.0	148.7
77.5°	136.1	117.3	115.2	123.6	134.1	161.3	192.7	184.3	152.9	144.5	140.3
80°	100.5	90.1	96.4	104.7	111.0	148.7	182.2	169.7	140.3	127.8	121.5
82.5°	71.2	67.0	75.4	83.8	90.1	129.9	167.6	148.7	117.3	106.8	96.4
85°	41.9	44.0	52.4	56.6	62.8	96.4	140.3	119.4	90.1	69.1	67.0
87.5°	18.9	18.9	25.1	27.2	31.4	56.6	94.3	75.4	56.6	44.0	41.9
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)