

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: P675202

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675202  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-850-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T4FT distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

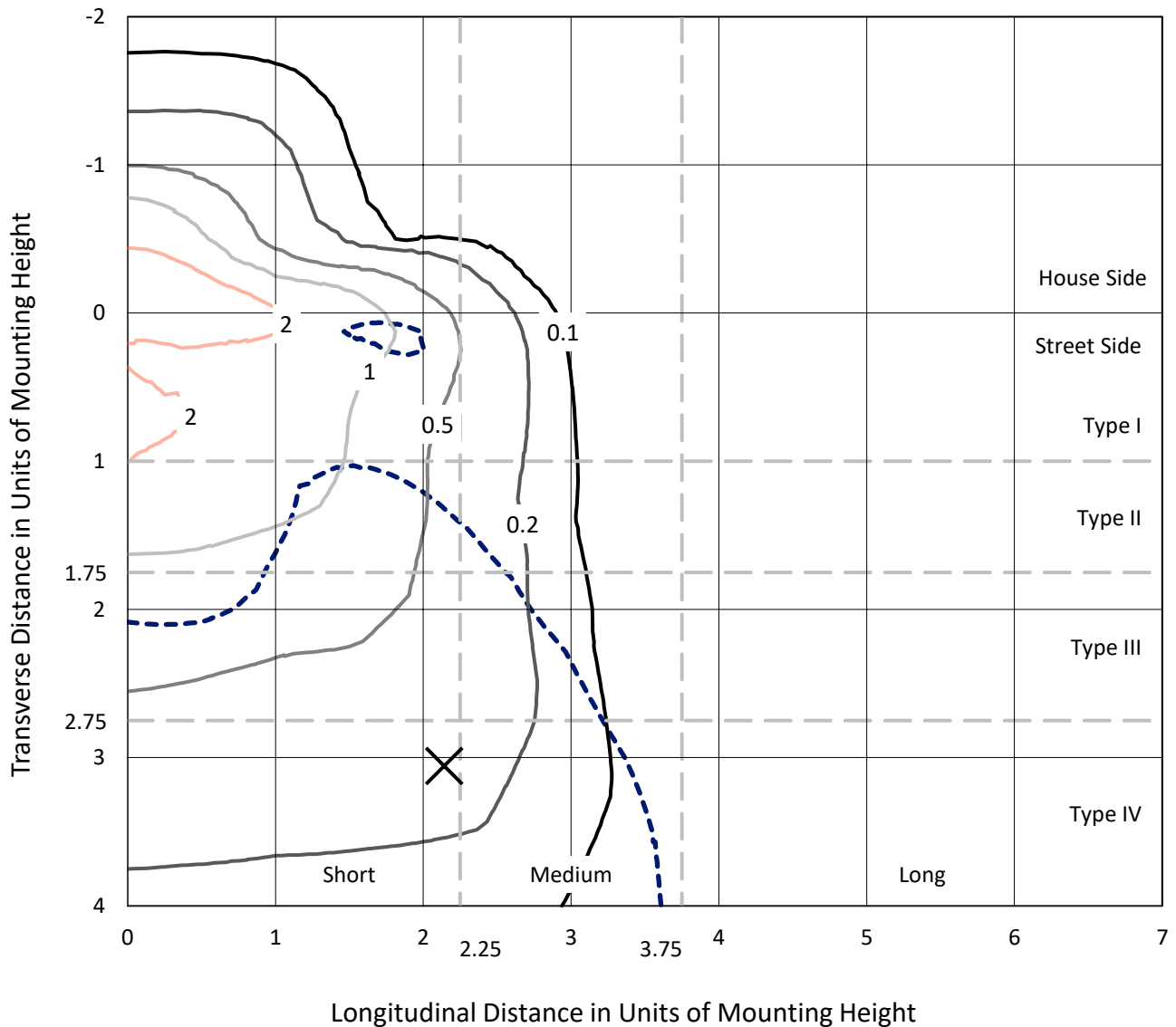
Lumens per Lamp: N/A  
Luminaire Lumens: 4863.4 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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

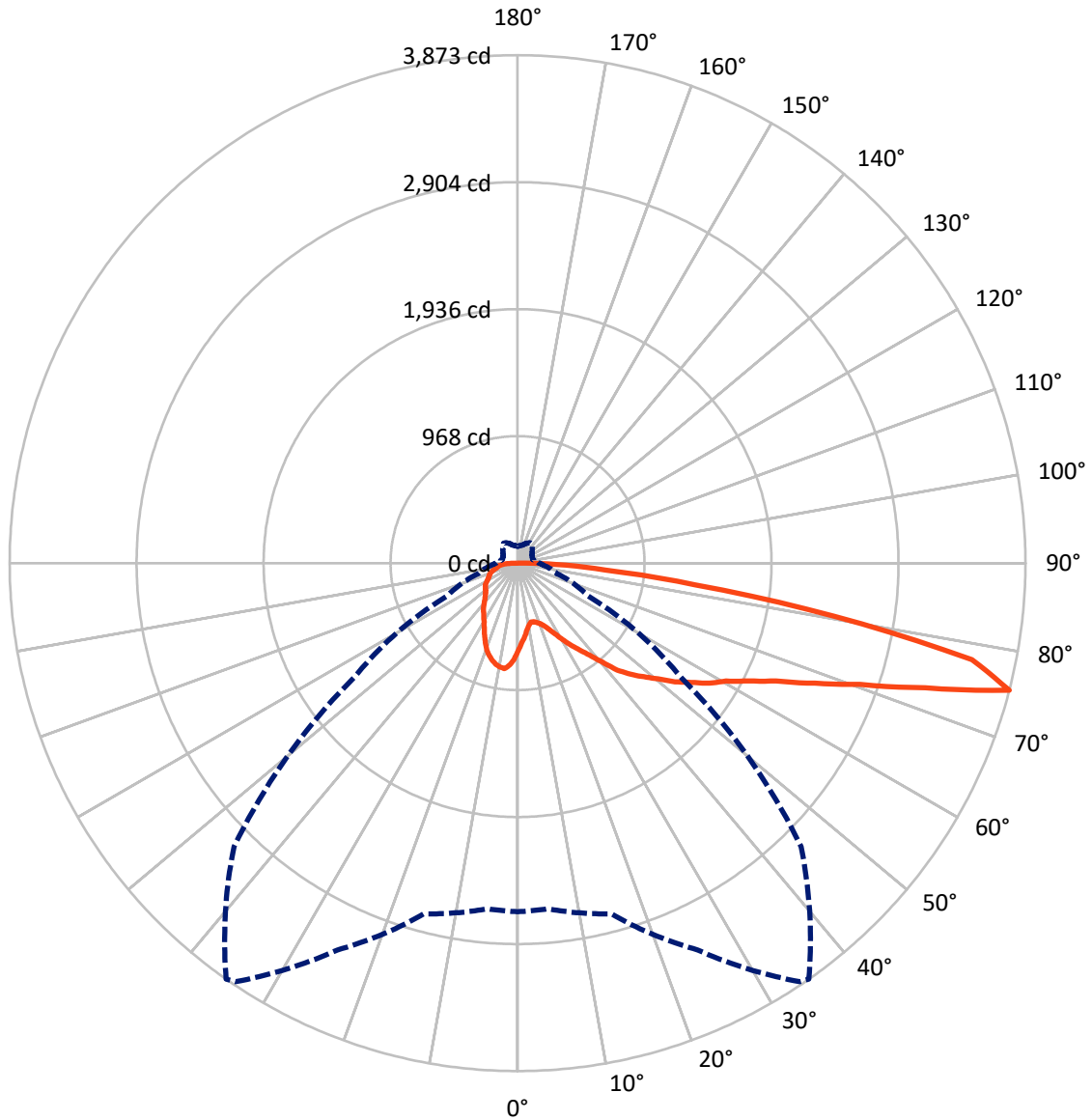
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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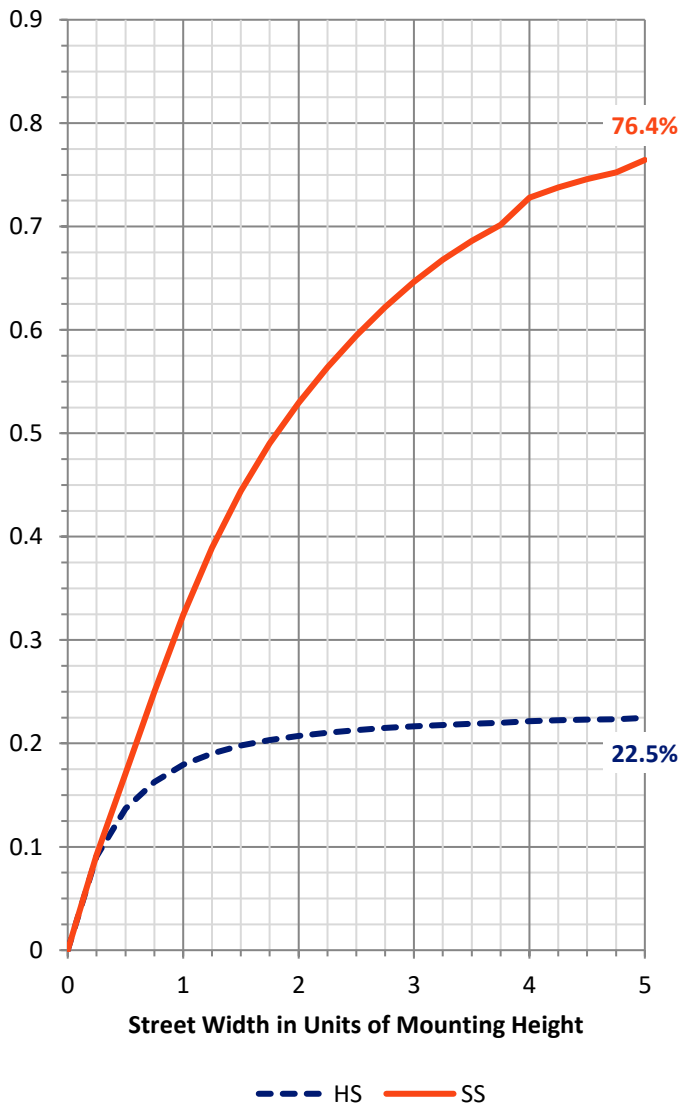
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1117.7	0.0	1117.7
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	3745.6	0.0	3745.6
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	4863.4	0.0	4863.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	1.3
10°-20°	184.3	3.8
20°-30°	305.8	6.3
30°-40°	453.2	9.3
40°-50°	653.5	13.4
50°-60°	898.7	18.5
60°-70°	1110.1	22.8
70°-80°	1015.6	20.9
80°-90°	178.8	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°	4863.4	100.0
0°-180°	4863.4	100.0



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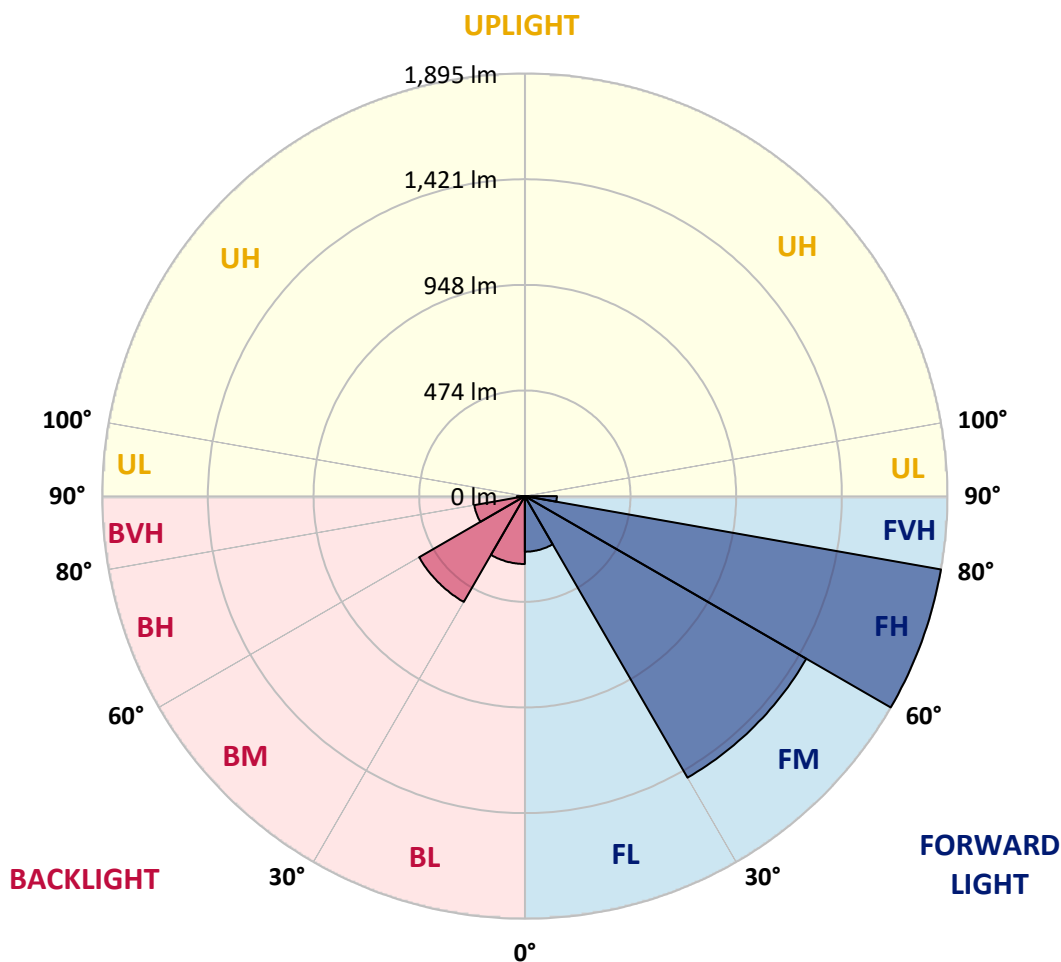
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.3	5.1			
FM (30°-60°)	1457.7	30.0			
FH (60°-80°)	1895.2	39.0			G2/5000
FVH (80°-90°)	143.5	3.0			G2/225
BL (0°-30°)	304.2	6.3	B1/500		
BM (30°-60°)	547.7	11.3	B1/1000		
BH (60°-80°)	230.5	4.7	B1/500		G1/500
BVH (80°-90°)	35.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3
2.5°	603.6	598.2	603.6	607.2	607.2	607.2	612.6	628.7	639.4	646.6	659.1
5°	540.9	542.7	546.3	555.3	560.6	564.2	573.2	592.9	609.0	632.3	659.1
7.5°	485.4	489.0	494.4	503.3	515.9	514.1	533.8	560.6	591.1	621.5	660.9
10°	456.7	463.9	465.7	467.5	480.0	480.0	506.9	537.3	575.0	614.4	660.9
12.5°	462.1	462.1	456.7	455.0	462.1	460.3	483.6	519.4	560.6	616.2	668.1
15°	478.2	478.2	467.5	456.7	467.5	463.9	483.6	512.3	560.6	618.0	682.4
17.5°	499.7	501.5	489.0	471.1	474.7	476.4	490.8	517.6	560.6	621.5	702.1
20°	542.7	533.8	514.1	485.4	497.9	492.6	514.1	537.3	571.4	635.9	730.8
22.5°	580.3	580.3	542.7	517.6	519.4	519.4	539.1	558.8	587.5	655.6	752.3
25°	641.2	637.7	591.1	553.5	557.1	558.8	569.6	592.9	614.4	666.3	779.2
27.5°	718.3	709.3	662.7	619.7	605.4	610.8	616.2	634.1	639.4	684.2	811.4
30°	800.7	788.1	748.7	680.6	673.5	675.3	666.3	677.1	669.9	712.9	843.6
32.5°	852.6	852.6	815.0	764.8	745.1	745.1	714.7	721.8	721.8	739.8	901.0
35°	897.4	893.8	868.7	831.1	818.6	811.4	780.9	791.7	773.8	791.7	981.6
37.5°	965.4	954.7	943.9	918.9	893.8	888.4	872.3	879.5	854.4	845.4	1072.9
40°	1044.2	1038.9	1028.1	1017.4	992.3	990.5	972.6	979.8	952.9	918.9	1164.3
42.5°	1160.7	1144.6	1110.5	1101.6	1106.9	1114.1	1106.9	1094.4	1046.0	1003.1	1262.8
45°	1277.1	1252.0	1187.5	1173.2	1214.4	1209.0	1239.5	1234.1	1155.3	1087.2	1366.7
47.5°	1352.3	1330.8	1278.9	1269.9	1287.8	1295.0	1386.4	1370.2	1244.9	1164.3	1467.0
50°	1406.1	1407.9	1339.8	1363.1	1386.4	1386.4	1501.0	1499.2	1354.1	1259.2	1597.7
52.5°	1484.9	1459.8	1431.1	1452.6	1484.9	1502.8	1644.3	1604.9	1422.2	1339.8	1744.6
55°	1526.1	1515.3	1490.2	1527.9	1595.9	1604.9	1755.3	1724.9	1499.2	1434.7	1895.1
57.5°	1542.2	1551.1	1592.3	1608.5	1703.4	1726.7	1855.6	1812.7	1570.9	1552.9	2011.5
60°	1613.8	1601.3	1656.8	1721.3	1812.7	1825.2	1981.0	1887.9	1640.7	1630.0	2049.1
62.5°	1758.9	1726.7	1757.1	1834.2	1961.3	1977.4	2113.6	1988.2	1671.2	1681.9	2047.3
65°	1970.3	1947.0	1902.2	1963.1	2142.2	2165.5	2269.4	2074.2	1662.2	1664.0	1902.2
67.5°	2219.3	2181.6	2135.1	2172.7	2391.2	2444.9	2459.3	2111.8	1599.5	1563.7	1547.6
70°	2437.8	2412.7	2382.2	2446.7	2751.2	2770.9	2695.7	2088.5	1425.8	1255.6	1031.7
72.5°	2642.0	2629.4	2647.3	2889.1	3238.4	3251.0	2917.8	1941.6	1126.6	761.2	480.0
75°	2658.1	2645.5	2769.1	3254.5	3849.2	3872.5	3055.7	1522.5	594.7	309.9	202.4
77.5°	1800.1	1837.7	2068.8	2849.7	3535.8	3541.1	2498.7	707.5	245.4	182.7	141.5
80°	442.4	490.8	779.2	1474.1	2384.0	2443.1	1368.4	238.2	161.2	139.7	105.7
82.5°	161.2	175.5	317.0	666.3	1339.8	1363.1	478.2	129.0	116.4	107.5	77.0
85°	77.0	78.8	150.5	327.8	677.1	669.9	172.0	77.0	84.2	73.4	46.6
87.5°	32.2	32.2	66.3	152.2	299.1	290.2	55.5	35.8	48.4	43.0	23.3
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°	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3
2.5°	668.1	671.7	686.0	696.8	707.5	716.5	730.8	730.8	739.8	739.8	739.8
5°	666.3	686.0	709.3	734.4	750.5	766.6	780.9	782.7	788.1	795.3	797.1
7.5°	673.5	693.2	730.8	766.6	786.3	793.5	811.4	806.0	806.0	806.0	811.4
10°	687.8	709.3	761.2	793.5	807.8	809.6	804.2	800.7	789.9	786.3	780.9
12.5°	698.6	736.2	788.1	813.2	807.8	802.4	789.9	772.0	759.5	755.9	755.9
15°	725.4	763.0	811.4	820.4	811.4	782.7	766.6	746.9	736.2	720.0	727.2
17.5°	748.7	791.7	834.7	823.9	806.0	761.2	738.0	709.3	695.0	677.1	677.1
20°	779.2	818.6	856.2	827.5	788.1	739.8	702.1	666.3	646.6	628.7	632.3
22.5°	813.2	849.0	868.7	813.2	761.2	705.7	653.8	619.7	594.7	583.9	587.5
25°	840.1	879.5	875.9	789.9	729.0	662.7	605.4	573.2	567.8	557.1	557.1
27.5°	874.1	915.3	870.5	761.2	675.3	594.7	558.8	546.3	546.3	540.9	544.5
30°	918.9	947.5	858.0	720.0	607.2	533.8	515.9	523.0	535.6	530.2	532.0
32.5°	992.3	988.7	847.2	673.5	535.6	474.7	487.2	501.5	512.3	517.6	521.2
35°	1064.0	1040.7	834.7	610.8	469.3	446.0	456.7	472.9	492.6	497.9	499.7
37.5°	1135.6	1094.4	813.2	533.8	428.1	420.9	431.7	440.6	456.7	460.3	463.9
40°	1210.8	1130.2	775.6	458.5	394.1	394.1	401.2	403.0	412.0	417.3	420.9
42.5°	1277.1	1164.3	707.5	388.7	358.2	370.8	372.6	369.0	361.8	365.4	367.2
45°	1357.7	1201.9	628.7	338.5	331.4	347.5	351.1	336.7	324.2	317.0	313.5
47.5°	1436.5	1241.3	560.6	297.3	306.3	331.4	331.4	315.2	293.8	275.8	268.7
50°	1508.2	1280.7	505.1	272.3	281.2	318.8	322.4	292.0	268.7	247.2	243.6
52.5°	1628.2	1347.0	447.8	252.6	266.9	309.9	308.1	281.2	250.8	227.5	225.7
55°	1733.8	1413.2	372.6	232.9	252.6	297.3	302.7	270.5	229.3	207.8	204.2
57.5°	1810.9	1429.3	297.3	213.1	238.2	283.0	290.2	249.0	214.9	197.0	195.2
60°	1825.2	1366.7	241.8	197.0	218.5	263.3	268.7	236.4	204.2	189.9	186.3
62.5°	1758.9	1246.7	206.0	182.7	202.4	243.6	254.3	222.1	193.4	180.9	179.1
65°	1608.5	1071.1	180.9	170.2	191.7	229.3	241.8	211.4	184.5	173.7	172.0
67.5°	1273.5	822.1	161.2	161.2	177.3	214.9	232.9	204.2	175.5	168.4	166.6
70°	832.9	494.4	146.9	148.7	166.6	202.4	222.1	195.2	164.8	163.0	159.4
72.5°	358.2	227.5	130.8	136.1	150.5	180.9	206.0	182.7	152.2	146.9	141.5
75°	164.8	137.9	118.2	121.8	134.3	159.4	186.3	168.4	141.5	132.5	127.2
77.5°	116.4	100.3	98.5	105.7	114.6	137.9	164.8	157.6	130.8	123.6	120.0
80°	86.0	77.0	82.4	89.6	94.9	127.2	155.8	145.1	120.0	109.3	103.9
82.5°	60.9	57.3	64.5	71.6	77.0	111.1	143.3	127.2	100.3	91.3	82.4
85°	35.8	37.6	44.8	48.4	53.7	82.4	120.0	102.1	77.0	59.1	57.3
87.5°	16.1	16.1	21.5	23.3	26.9	48.4	80.6	64.5	48.4	37.6	35.8
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)