

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: P675345

Luminaire Tested: **CCW-SA-1C-850-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675345  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-850-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
T4W distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

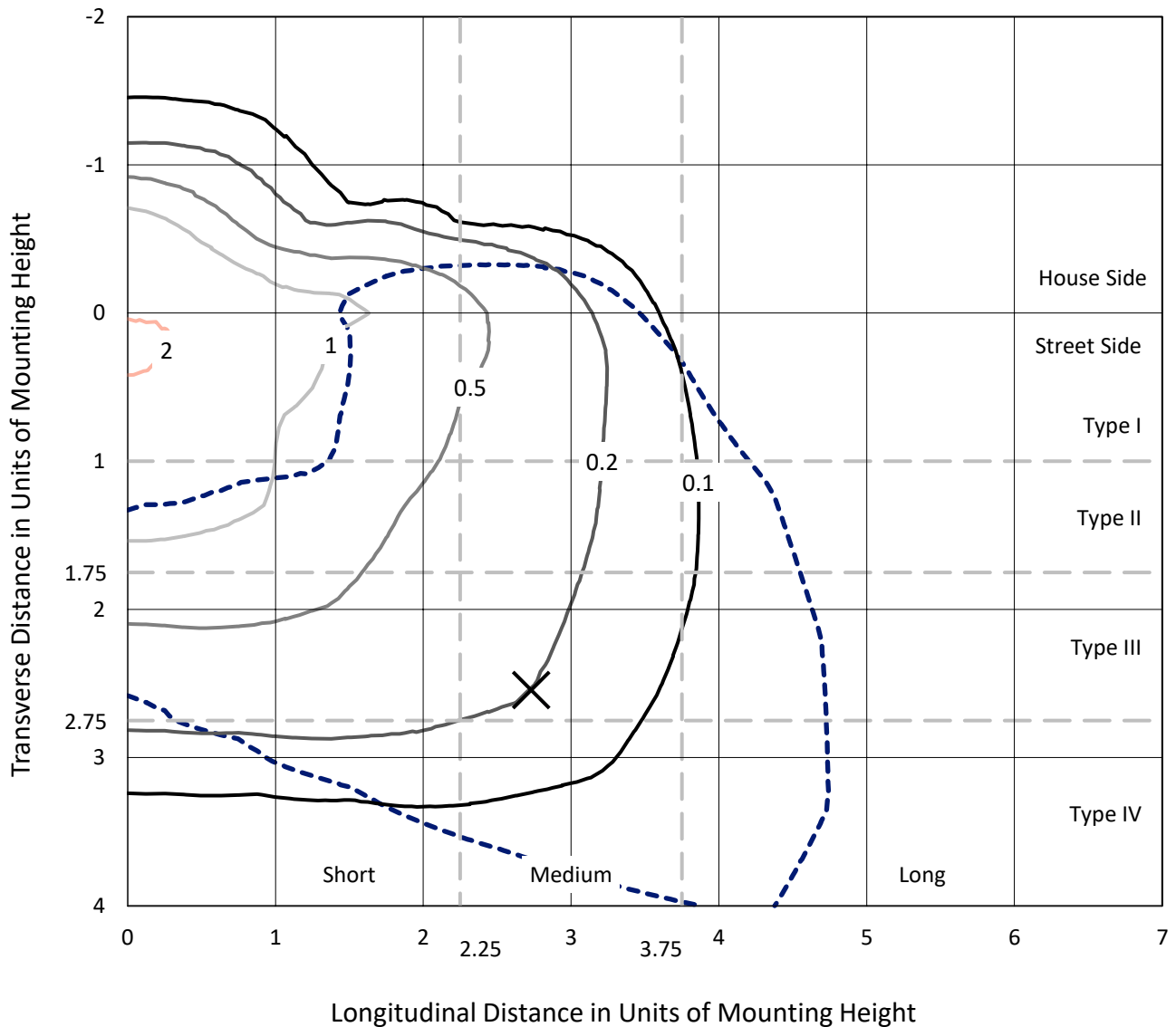
Lumens per Lamp: N/A  
Luminaire Lumens: 3980.1 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 32  
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

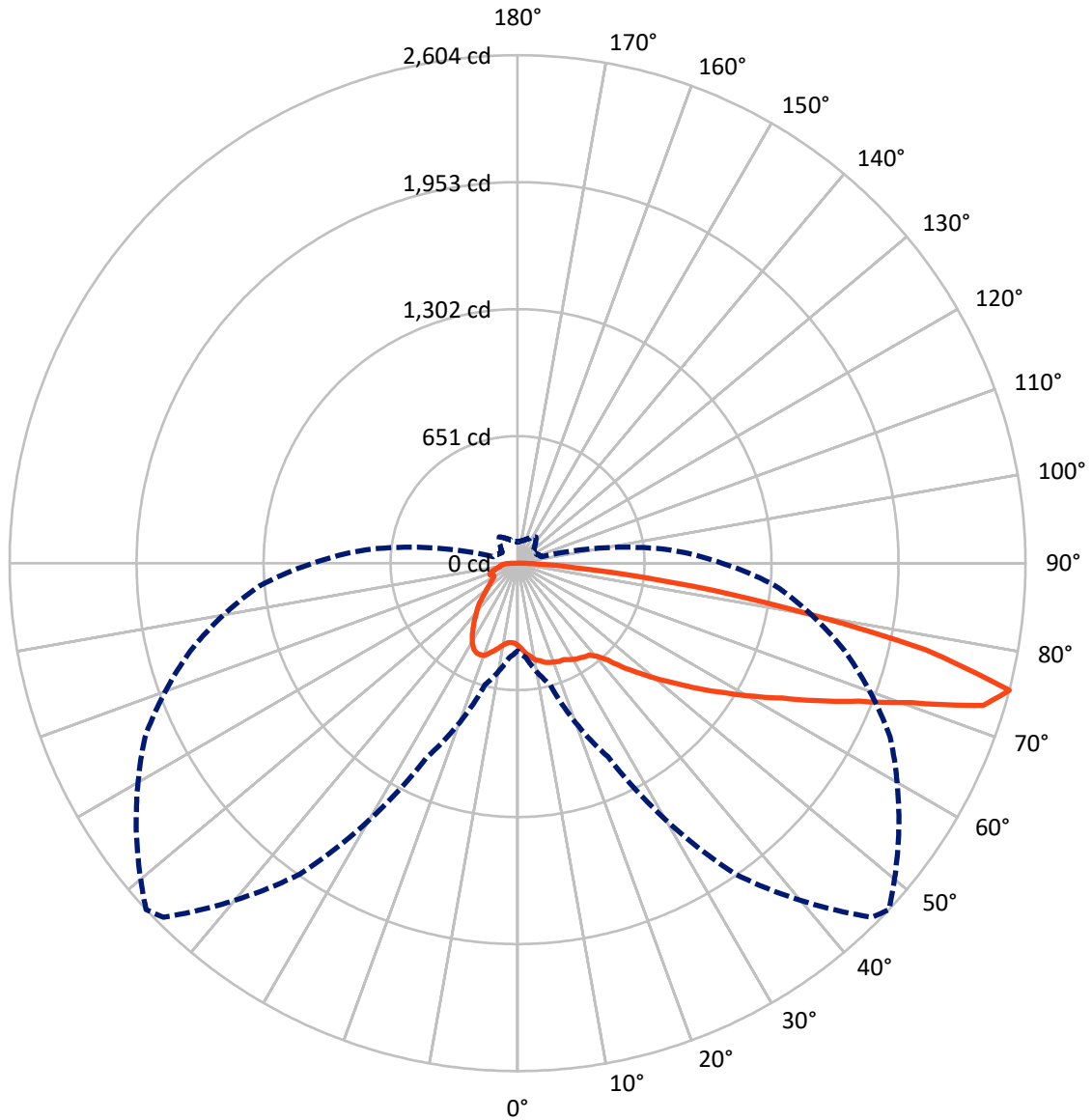
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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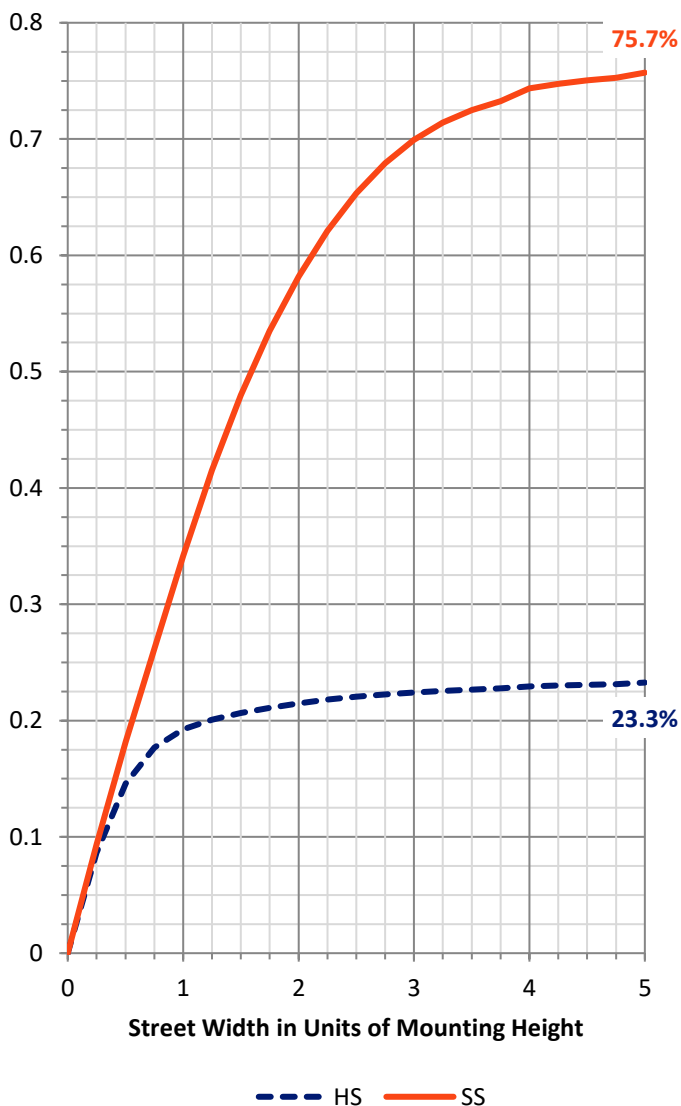
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	951.8	0.0	951.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	3028.2	0.0	3028.2
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	3980.1	0.0	3980.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	1.1
10°-20°	141.9	3.6
20°-30°	243.0	6.1
30°-40°	340.0	8.5
40°-50°	474.1	11.9
50°-60°	708.6	17.8
60°-70°	1021.6	25.7
70°-80°	869.6	21.8
80°-90°	138.5	3.5
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°	3980.1	100.0
0°-180°	3980.1	100.0



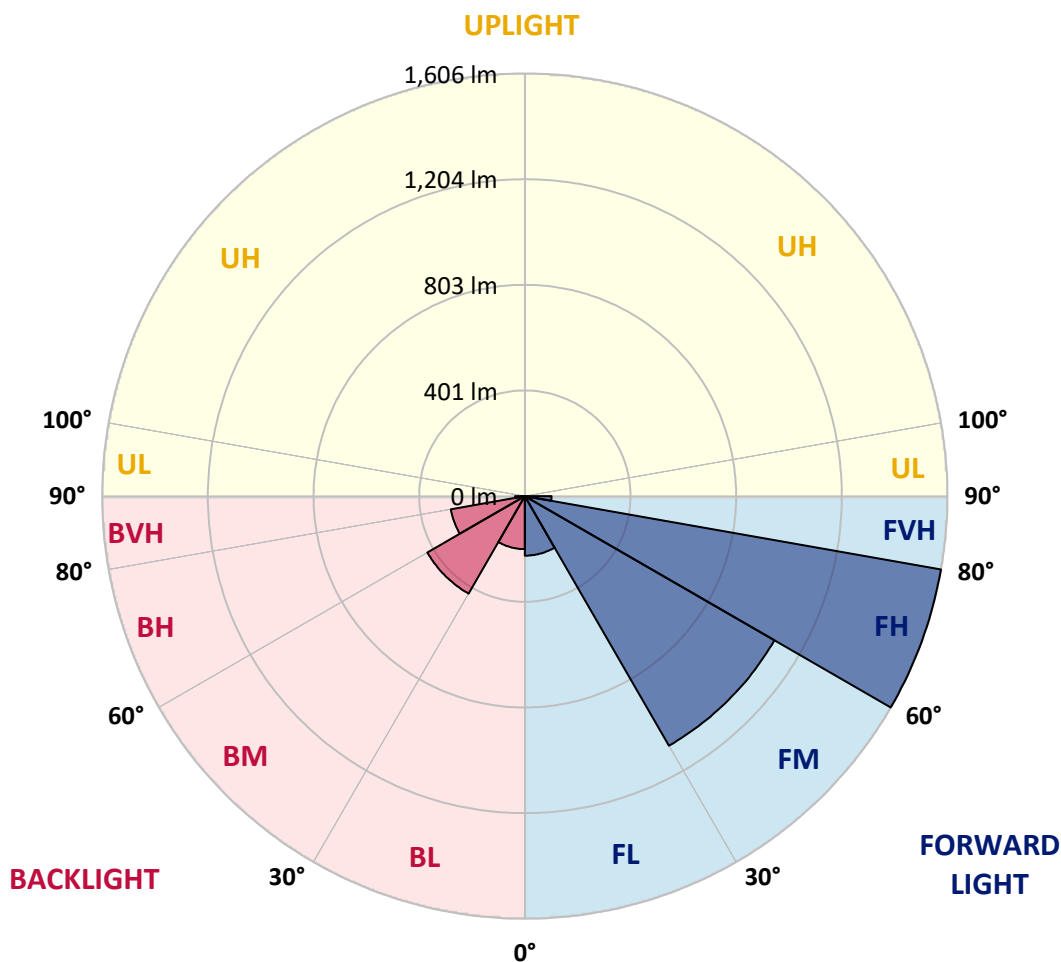
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.1	5.7			
FM (30°-60°)	1094.9	27.5			
FH (60°-80°)	1605.7	40.3			G1/1800
FVH (80°-90°)	101.5	2.6			G2/225
BL (0°-30°)	201.5	5.1	B1/500		
BM (30°-60°)	427.8	10.7	B1/1000		
BH (60°-80°)	285.5	7.2	B1/500		G1/500
BVH (80°-90°)	37.0	0.9			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6
2.5°	453.1	454.5	454.5	451.6	448.7	442.9	442.9	437.1	434.2	427.0	424.1
5°	495.2	490.9	486.5	485.0	477.8	467.6	466.2	460.4	444.4	437.1	427.0
7.5°	525.7	524.3	522.8	517.0	503.9	487.9	483.6	474.9	458.9	444.4	432.8
10°	550.4	556.2	550.4	537.3	524.3	506.8	505.4	489.4	474.9	457.5	442.9
12.5°	578.0	579.4	569.3	553.3	533.0	518.4	512.6	506.8	490.9	476.3	454.5
15°	596.9	594.0	586.7	564.9	541.7	527.2	528.6	521.4	503.9	493.8	470.5
17.5°	596.9	596.9	585.2	569.3	548.9	535.9	535.9	531.5	519.9	505.4	489.4
20°	585.2	585.2	578.0	569.3	546.0	543.1	540.2	537.3	537.3	524.3	501.0
22.5°	570.7	567.8	570.7	556.2	540.2	543.1	547.5	546.0	541.7	530.1	514.1
25°	556.2	557.7	560.6	550.4	535.9	548.9	547.5	554.8	551.8	543.1	530.1
27.5°	554.8	557.7	559.1	548.9	543.1	554.8	560.6	567.8	569.3	560.6	544.6
30°	576.5	575.1	573.6	560.6	556.2	566.4	572.2	582.3	591.1	572.2	559.1
32.5°	633.2	624.5	615.7	580.9	567.8	575.1	580.9	595.4	596.9	586.7	567.8
35°	723.2	717.4	688.4	627.4	591.1	583.8	589.6	599.8	602.7	595.4	580.9
37.5°	826.3	823.4	782.8	708.7	639.0	604.1	598.3	612.8	624.5	608.5	588.2
40°	928.0	916.4	887.3	814.7	700.0	634.6	627.4	634.6	639.0	627.4	614.3
42.5°	1019.5	1006.4	999.1	926.5	779.8	685.5	679.6	662.2	675.3	660.8	643.3
45°	1096.4	1093.5	1090.6	1028.2	871.3	768.2	763.9	718.9	733.4	721.8	697.1
47.5°	1151.6	1164.7	1160.3	1125.5	975.9	856.8	843.7	785.7	807.4	795.8	771.1
50°	1217.0	1224.2	1219.9	1196.6	1073.2	958.5	933.8	874.2	898.9	897.5	884.4
52.5°	1275.1	1296.8	1272.2	1270.7	1212.6	1068.8	1026.7	970.1	1010.8	1026.7	1025.3
55°	1343.3	1360.7	1353.5	1350.6	1337.5	1176.3	1138.5	1070.3	1138.5	1161.8	1182.1
57.5°	1401.4	1399.9	1427.5	1460.9	1476.9	1299.7	1254.7	1174.9	1278.0	1304.1	1360.7
60°	1427.5	1452.2	1498.7	1582.9	1627.9	1431.9	1385.4	1321.5	1418.8	1439.2	1543.7
62.5°	1445.0	1466.8	1556.8	1699.1	1725.2	1567.0	1523.4	1459.5	1572.8	1587.3	1742.7
65°	1397.0	1417.4	1596.0	1742.7	1835.6	1712.2	1702.0	1635.2	1726.7	1735.4	1951.8
67.5°	1341.9	1363.6	1562.6	1797.9	1982.3	1905.3	1889.4	1809.5	1879.2	1869.0	2111.5
70°	1244.6	1273.6	1476.9	1845.8	2144.9	2175.4	2143.5	2030.2	2037.5	1941.6	2118.8
72.5°	948.3	967.2	1156.0	1655.5	2220.5	2550.1	2494.9	2268.4	2185.6	1956.2	1870.5
75°	450.2	485.0	644.8	1095.0	1946.0	2567.5	2603.8	2386.0	2107.2	1735.4	1325.9
77.5°	130.7	130.7	196.1	464.7	1219.9	2069.4	2137.7	2025.9	1738.3	1285.2	697.1
80°	71.2	75.5	103.1	164.1	535.9	1305.6	1404.3	1343.3	1023.8	508.3	180.1
82.5°	40.7	42.1	68.3	98.8	244.0	710.1	768.2	697.1	389.2	153.9	84.2
85°	23.2	24.7	39.2	65.4	145.2	261.4	284.6	246.9	156.8	103.1	42.1
87.5°	11.6	11.6	18.9	30.5	74.1	74.1	72.6	88.6	94.4	62.4	18.9
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°	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6
2.5°	422.6	421.1	421.1	415.3	413.9	409.5	409.5	406.6	405.2	409.5	409.5
5°	424.1	416.8	415.3	409.5	411.0	408.1	413.9	411.0	409.5	409.5	408.1
7.5°	427.0	419.7	413.9	409.5	408.1	412.4	419.7	419.7	428.4	424.1	424.1
10°	434.2	429.9	422.6	419.7	419.7	424.1	432.8	438.6	445.8	445.8	441.5
12.5°	451.6	444.4	435.7	431.3	437.1	441.5	450.2	456.0	464.7	467.6	464.7
15°	464.7	457.5	454.5	451.6	456.0	461.8	469.1	474.9	485.0	487.9	486.5
17.5°	482.1	473.4	472.0	473.4	476.3	480.7	485.0	489.4	496.7	496.7	496.7
20°	490.9	487.9	486.5	490.9	496.7	502.5	499.6	496.7	495.2	498.1	496.7
22.5°	506.8	503.9	505.4	509.7	509.7	506.8	502.5	492.3	489.4	492.3	489.4
25°	521.4	518.4	518.4	515.5	514.1	503.9	495.2	486.5	476.3	480.7	479.2
27.5°	535.9	534.4	534.4	522.8	508.3	490.9	479.2	469.1	463.3	470.5	466.2
30°	553.3	554.8	547.5	519.9	485.0	466.2	453.1	451.6	450.2	454.5	453.1
32.5°	569.3	570.7	559.1	515.5	467.6	431.3	418.2	419.7	427.0	434.2	441.5
35°	578.0	585.2	570.7	501.0	432.8	392.1	377.6	390.6	403.7	413.9	421.1
37.5°	594.0	612.8	588.2	485.0	402.3	357.2	347.1	351.4	367.4	383.4	390.6
40°	617.2	639.0	592.5	454.5	361.6	322.4	316.6	318.0	323.8	334.0	341.3
42.5°	657.9	681.1	596.9	415.3	320.9	300.6	284.6	280.3	275.9	275.9	274.5
45°	717.4	739.2	591.1	366.0	280.3	265.8	254.1	244.0	232.4	213.5	216.4
47.5°	804.5	822.0	595.4	322.4	242.5	230.9	222.2	210.6	193.1	172.8	171.4
50°	936.7	910.5	589.6	277.4	214.9	204.8	197.5	181.5	161.2	146.7	145.2
52.5°	1090.6	1038.3	583.8	239.6	191.7	183.0	177.2	159.7	140.9	133.6	132.2
55°	1276.5	1201.0	592.5	206.2	174.3	167.0	161.2	145.2	130.7	124.9	123.4
57.5°	1495.8	1376.7	640.4	180.1	155.4	152.5	151.0	138.0	124.9	120.5	119.1
60°	1702.0	1545.2	672.4	161.2	138.0	140.9	143.8	138.0	123.4	120.5	120.5
62.5°	1874.8	1684.6	621.6	145.2	129.2	138.0	151.0	146.7	140.9	143.8	140.9
65°	2027.3	1732.5	464.7	136.5	124.9	145.2	167.0	165.6	152.5	155.4	153.9
67.5°	2053.5	1674.4	303.5	129.2	122.0	159.7	187.3	169.9	143.8	143.8	139.4
70°	1944.5	1519.0	203.3	122.0	120.5	159.7	191.7	159.7	135.1	135.1	129.2
72.5°	1596.0	1214.1	156.8	114.7	110.4	142.3	181.5	151.0	126.3	123.4	113.3
75°	1048.5	782.8	127.8	108.9	95.8	124.9	164.1	139.4	120.5	111.8	107.5
77.5°	514.1	351.4	107.5	95.8	82.8	108.9	149.6	132.2	113.3	104.6	101.7
80°	140.9	126.3	90.0	84.2	69.7	94.4	140.9	126.3	106.0	97.3	92.9
82.5°	79.9	78.4	72.6	68.3	58.1	94.4	142.3	126.3	100.2	98.8	84.2
85°	43.6	46.5	52.3	50.8	45.0	84.2	135.1	110.4	81.3	68.3	68.3
87.5°	17.4	21.8	26.1	29.0	30.5	62.4	101.7	84.2	62.4	52.3	52.3
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)